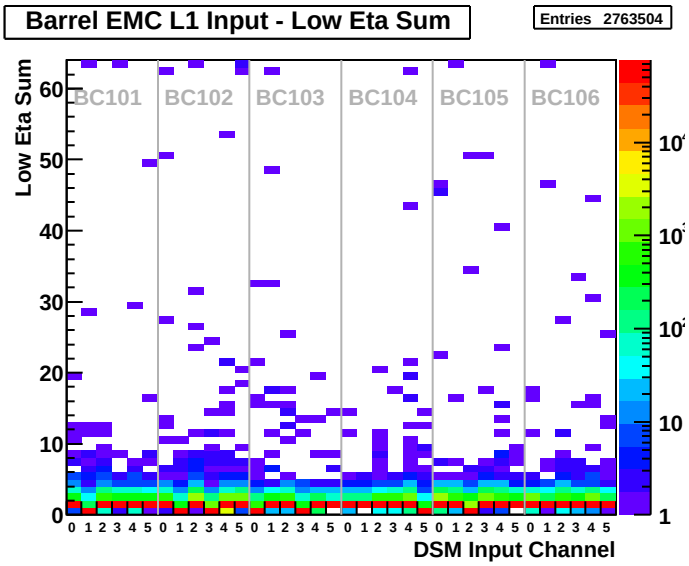
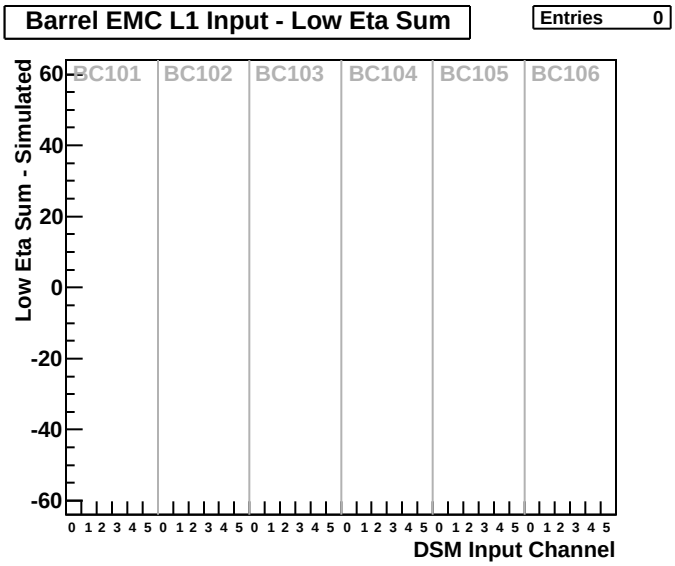
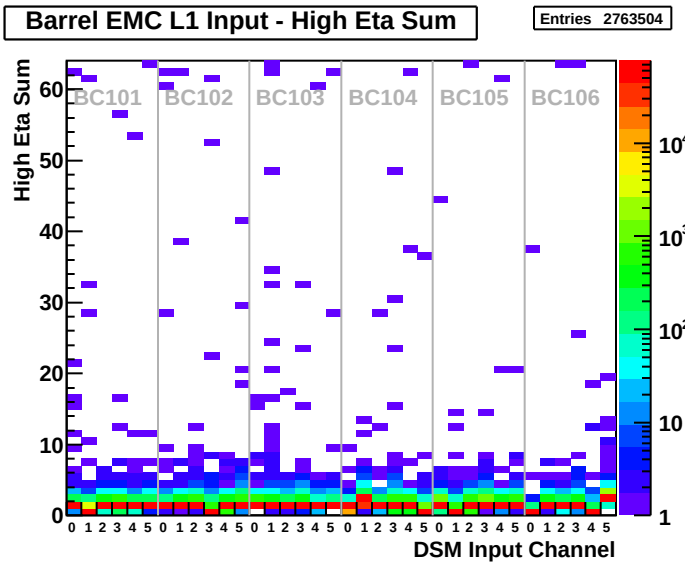
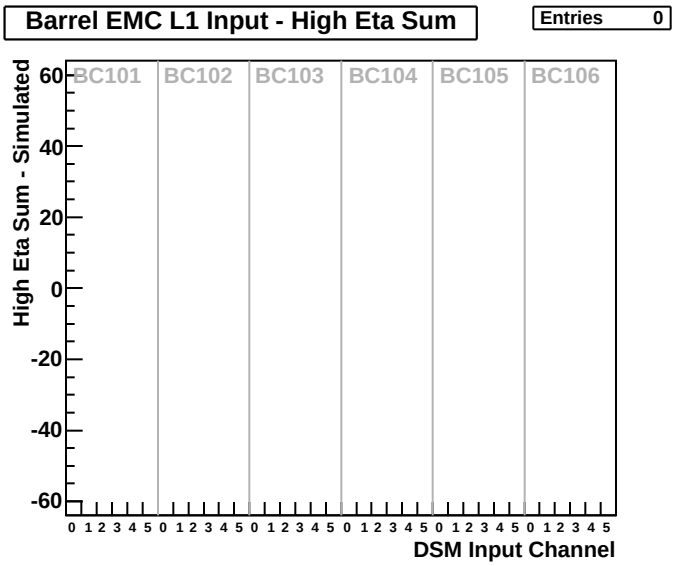
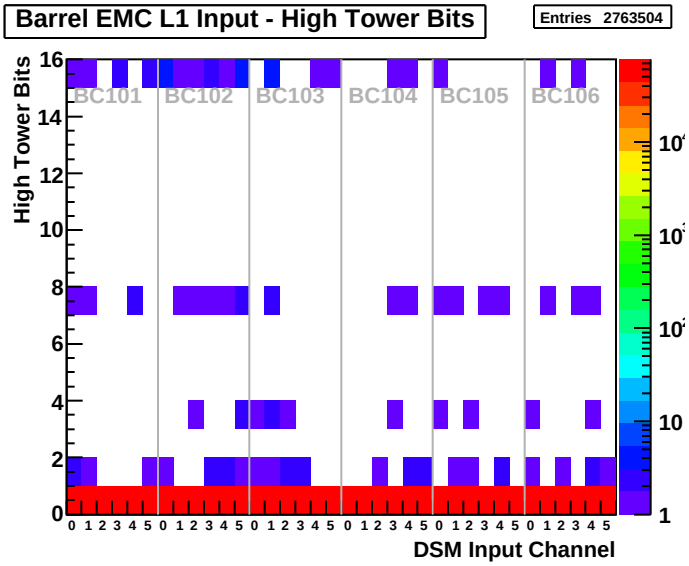
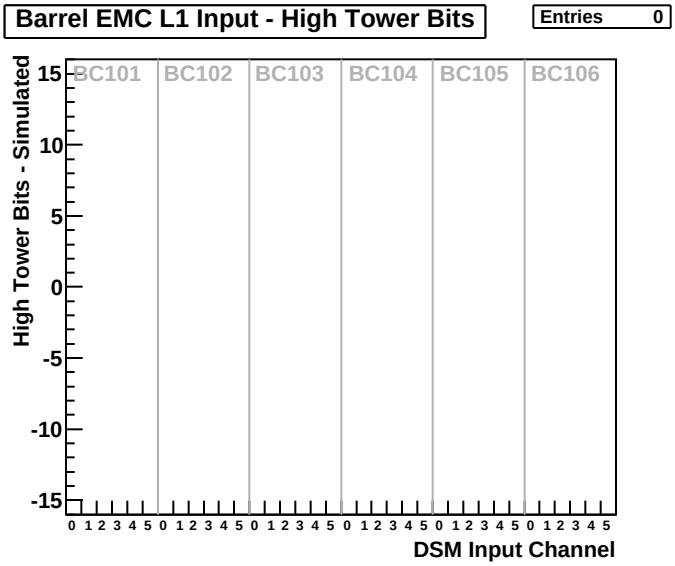

Barrel EMC L1 Input - Low Eta Sum
Entries 2763504
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

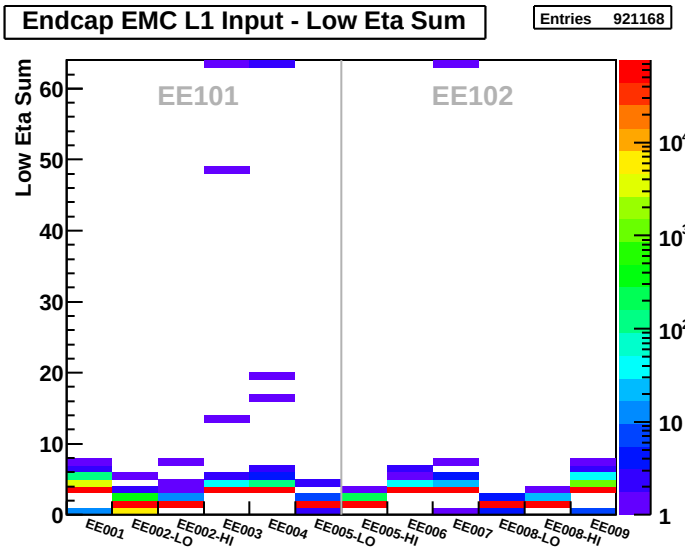

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

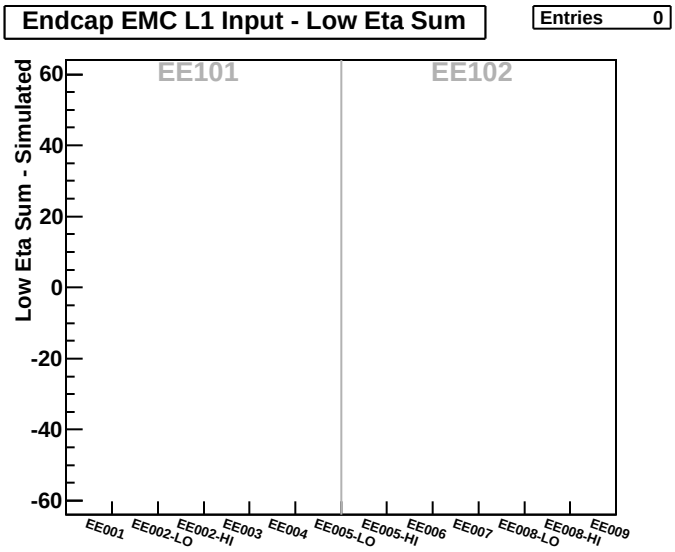

Barrel EMC L1 Input - High Eta Sum
Entries 2763504
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

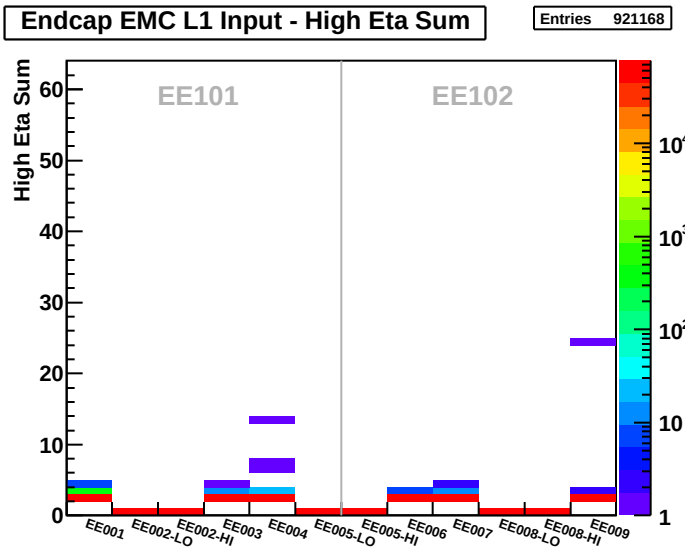

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

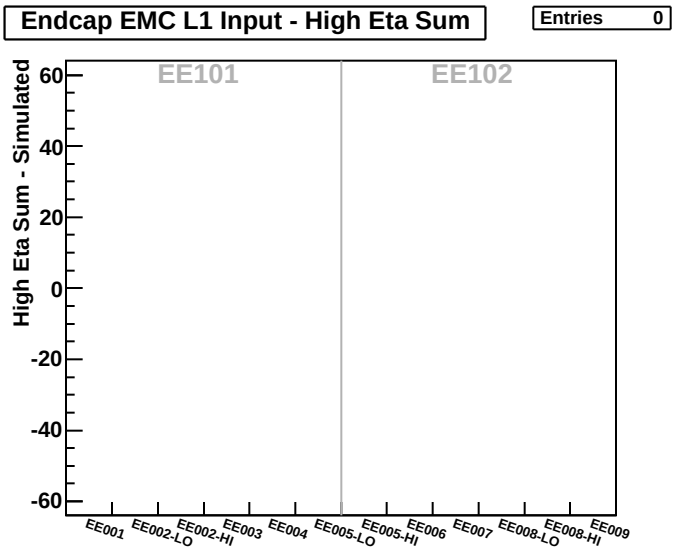

Barrel EMC L1 Input - High Tower Bits
Entries 2763504
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

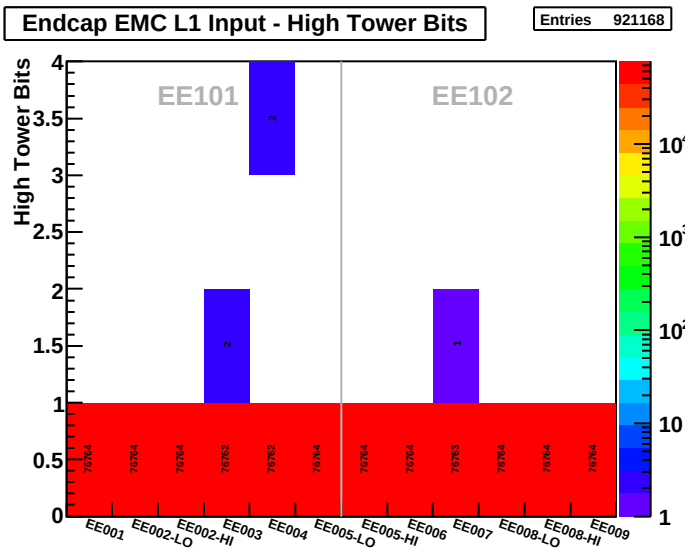

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

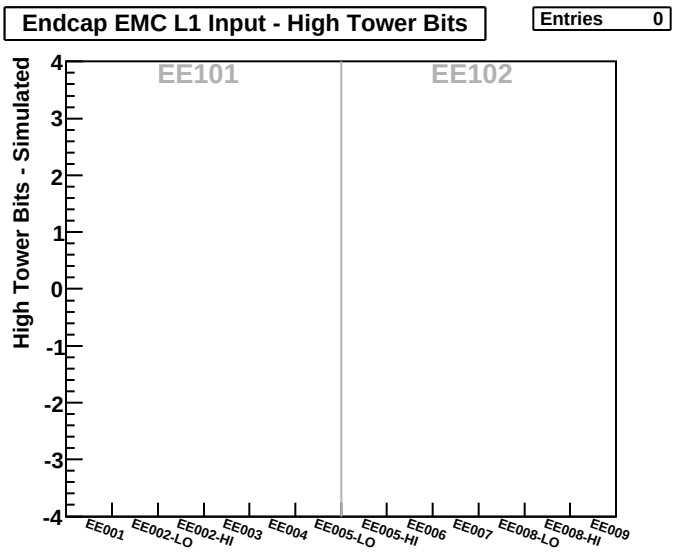

Endcap EMC L1 Input - Low Eta Sum
Entries 921168
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

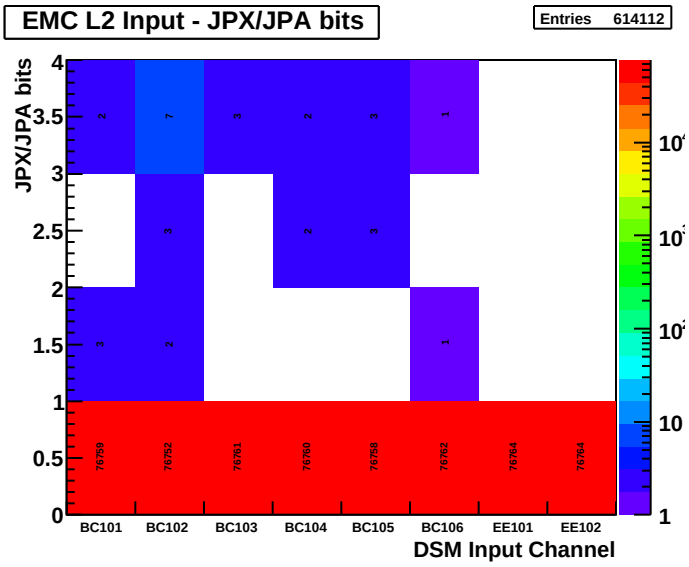

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

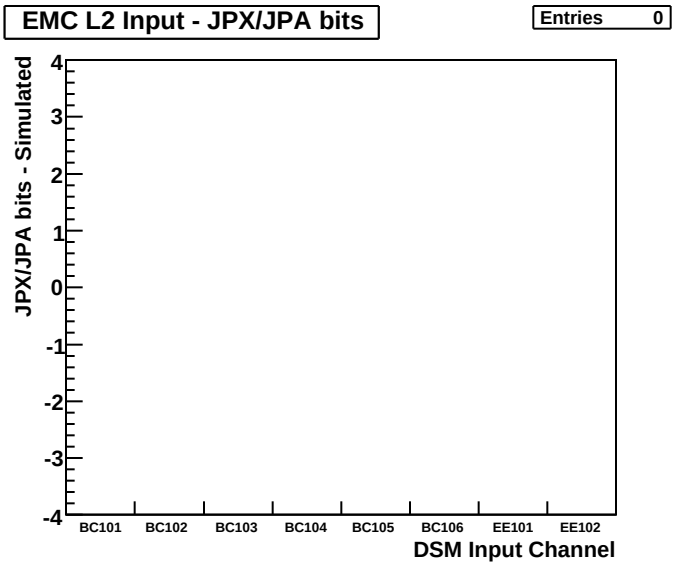

Endcap EMC L1 Input - High Eta Sum
Entries 921168
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

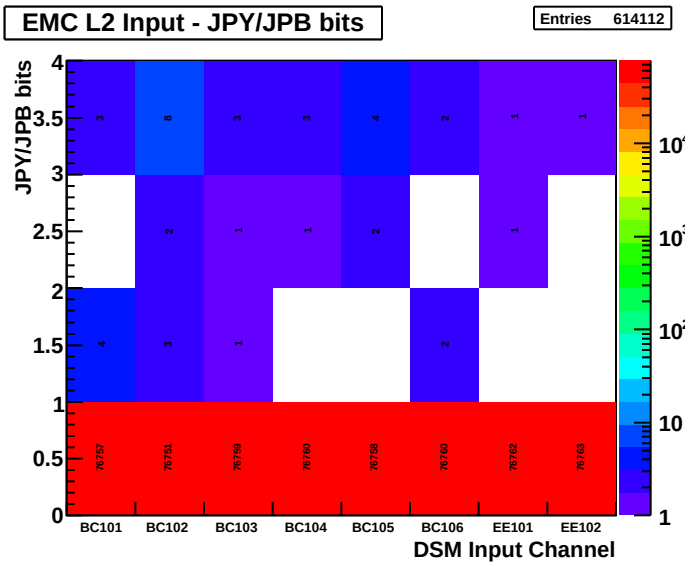

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

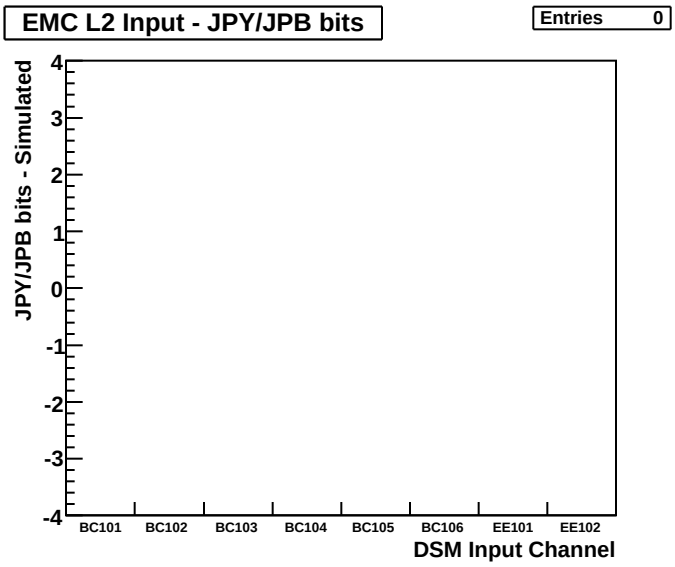

Endcap EMC L1 Input - High Tower Bits
Entries 921168
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

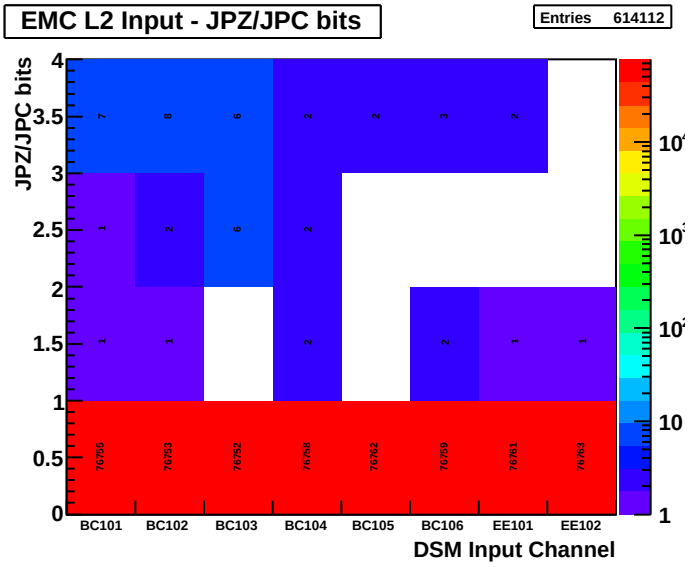

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

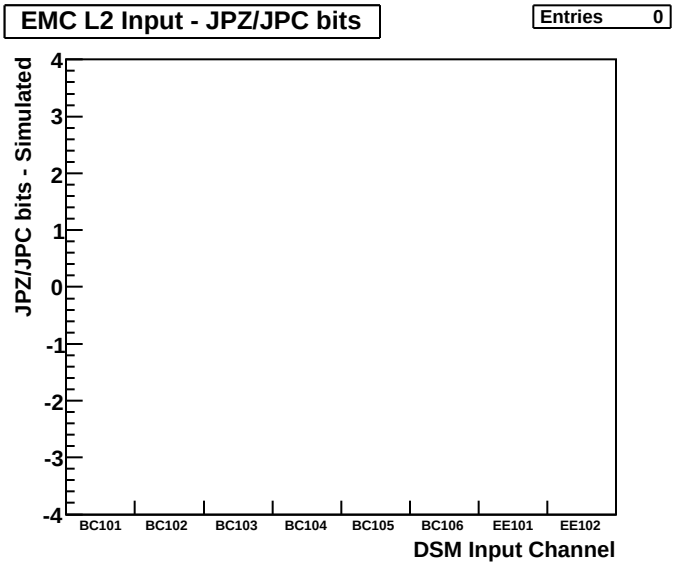

EMC L2 Input - JPX/JPA bits
Entries 614112
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

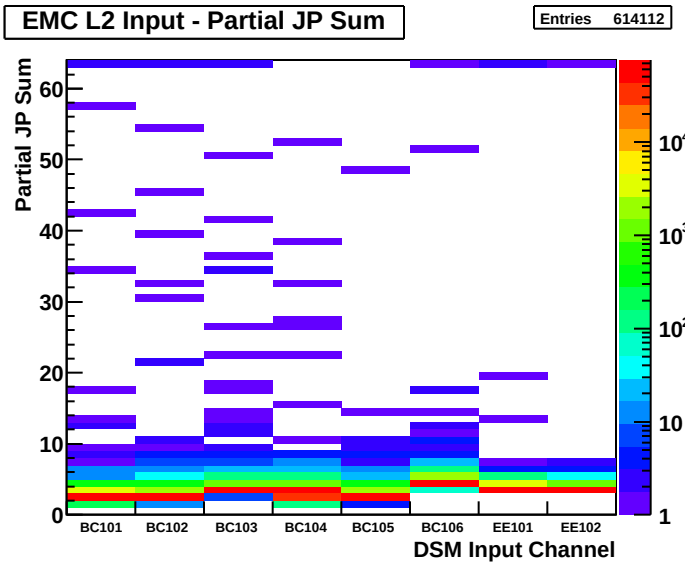

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

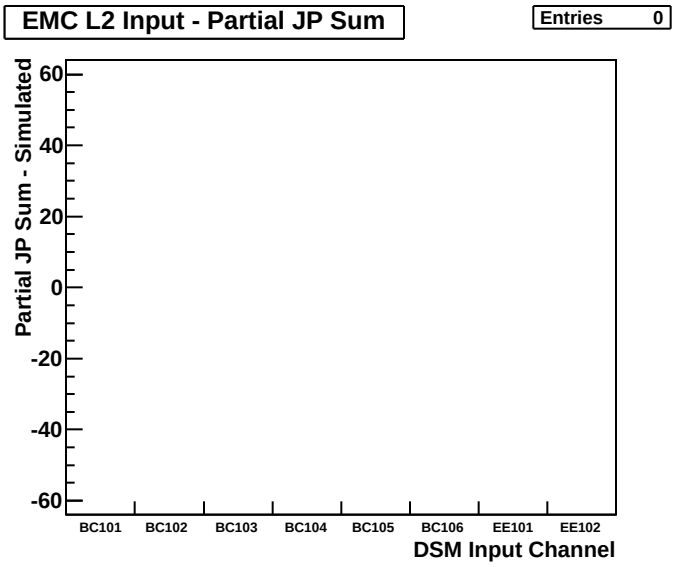

EMC L2 Input - JPY/JPB bits
Entries 614112
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

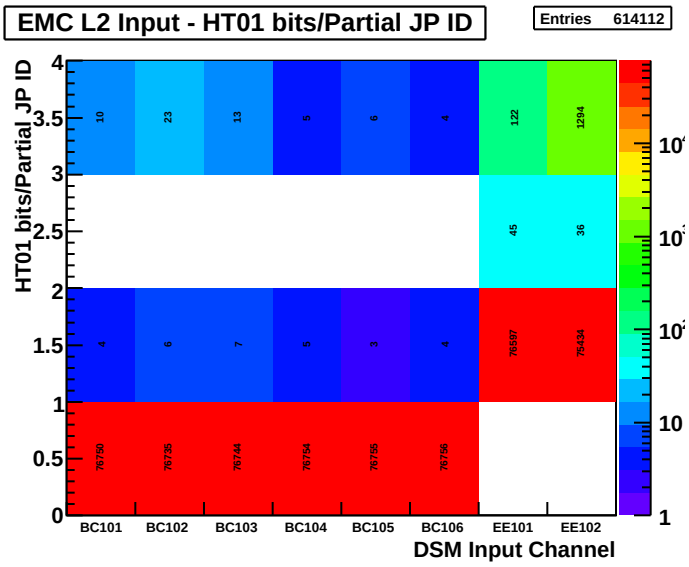

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

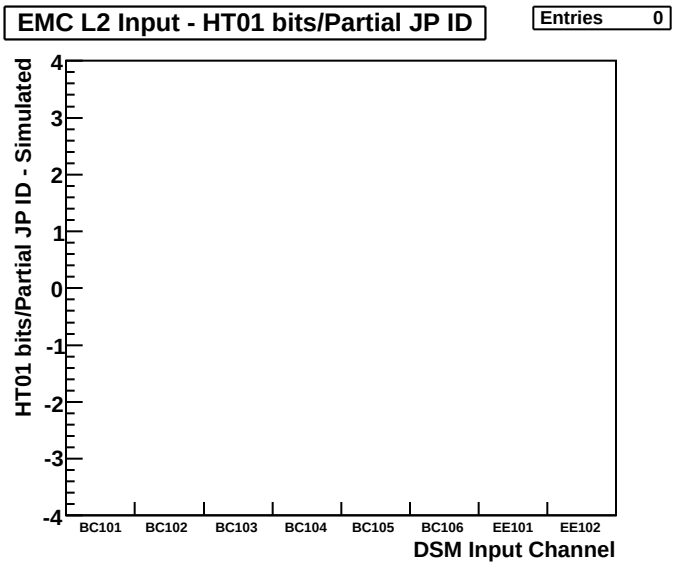

EMC L2 Input - JPZ/JPC bits
Entries 614112
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

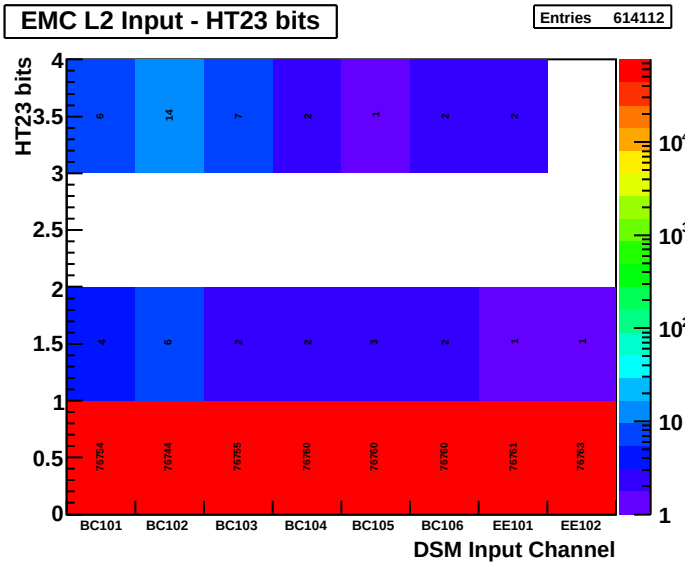

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

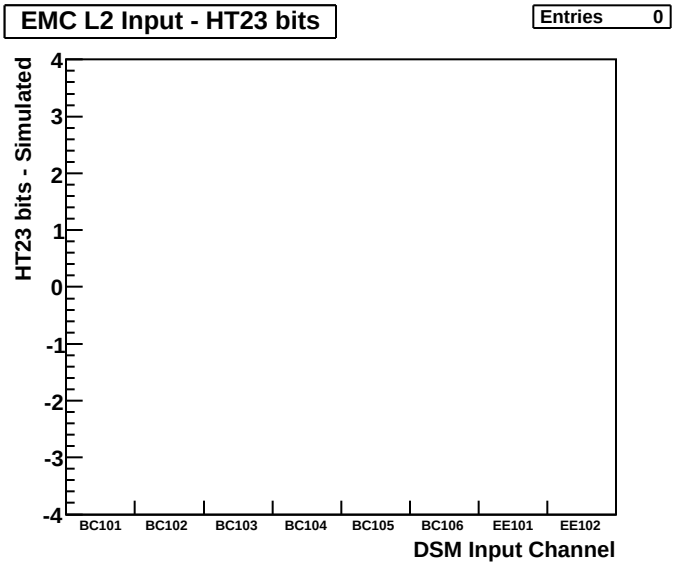

EMC L2 Input - Partial JP Sum
Entries 614112
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

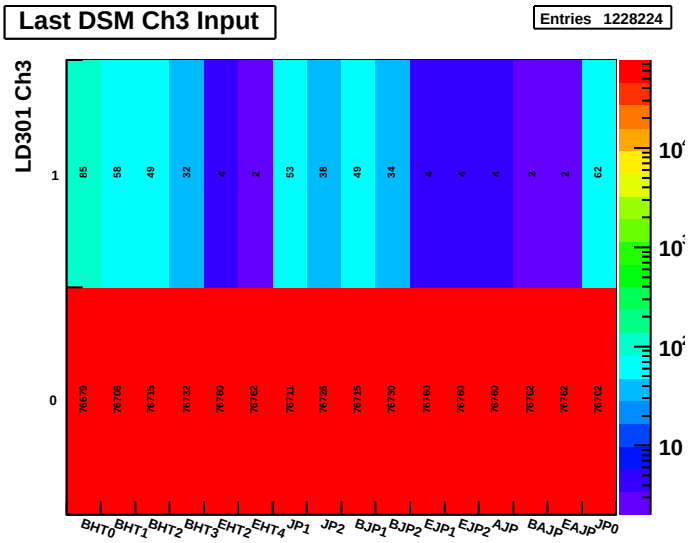

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

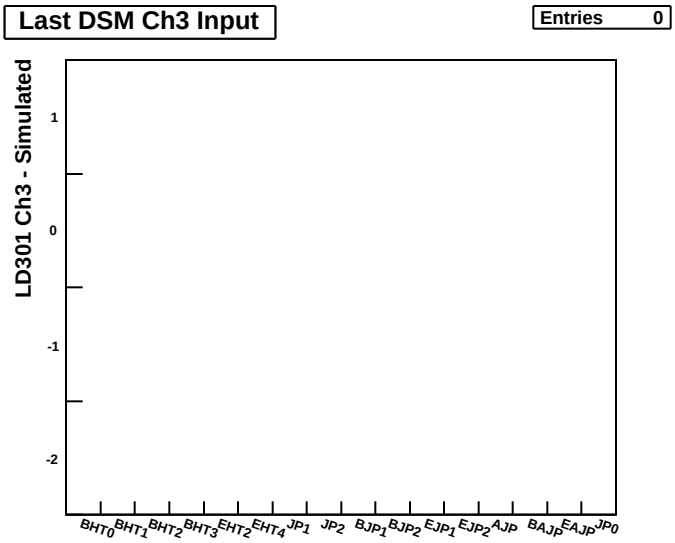

EMC L2 Input - HT01 bits/Partial JP ID
Entries 614112
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

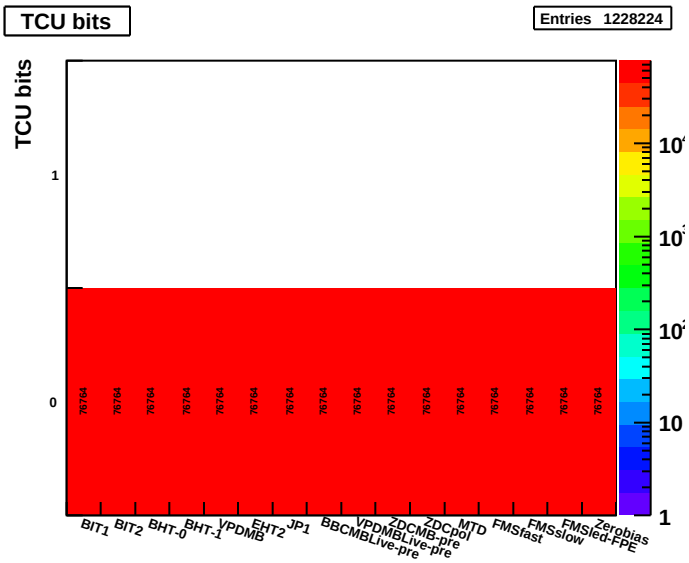

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

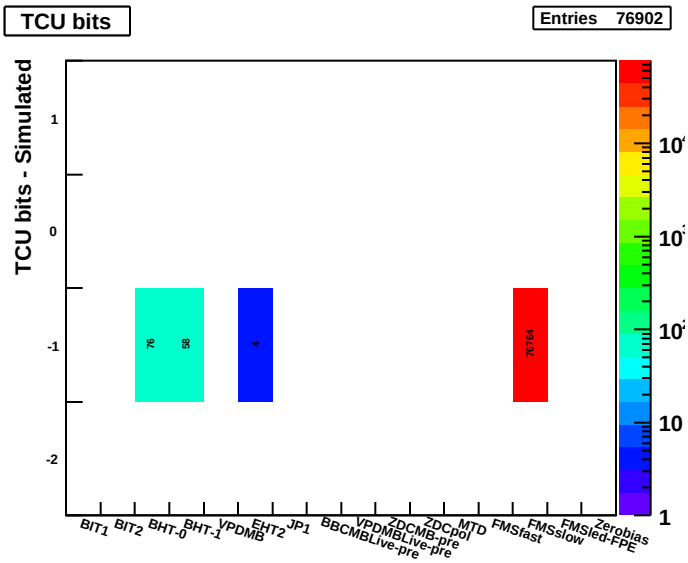

EMC L2 Input - HT23 bits
Entries 614112
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

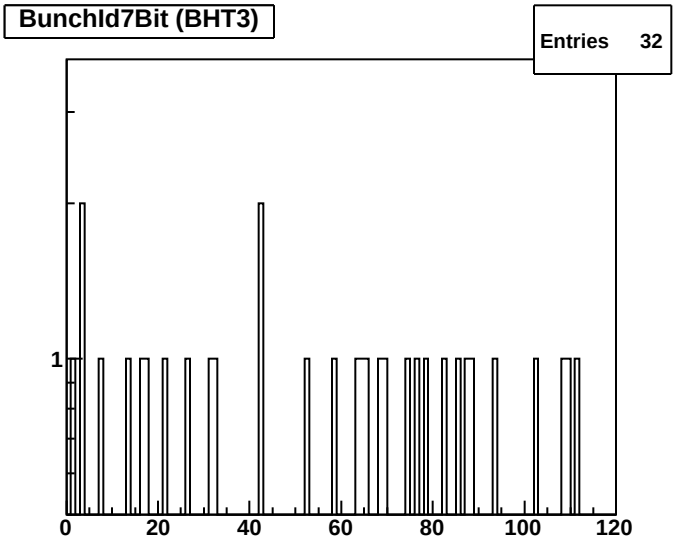

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

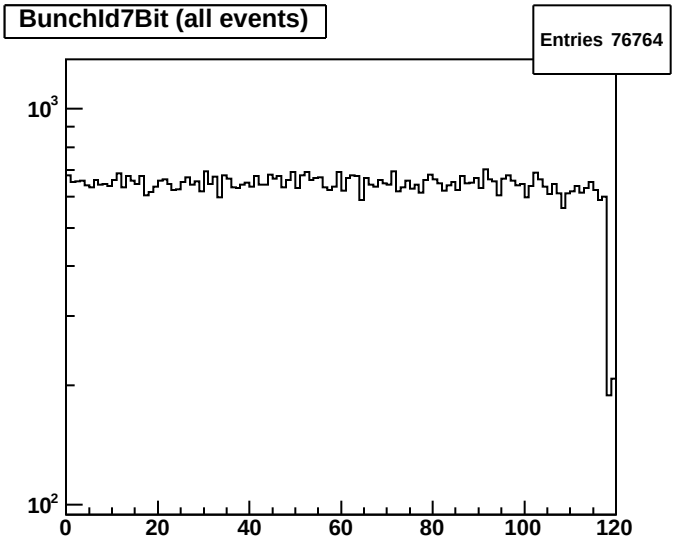

Last DSM Ch3 Input
Entries 1228224
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

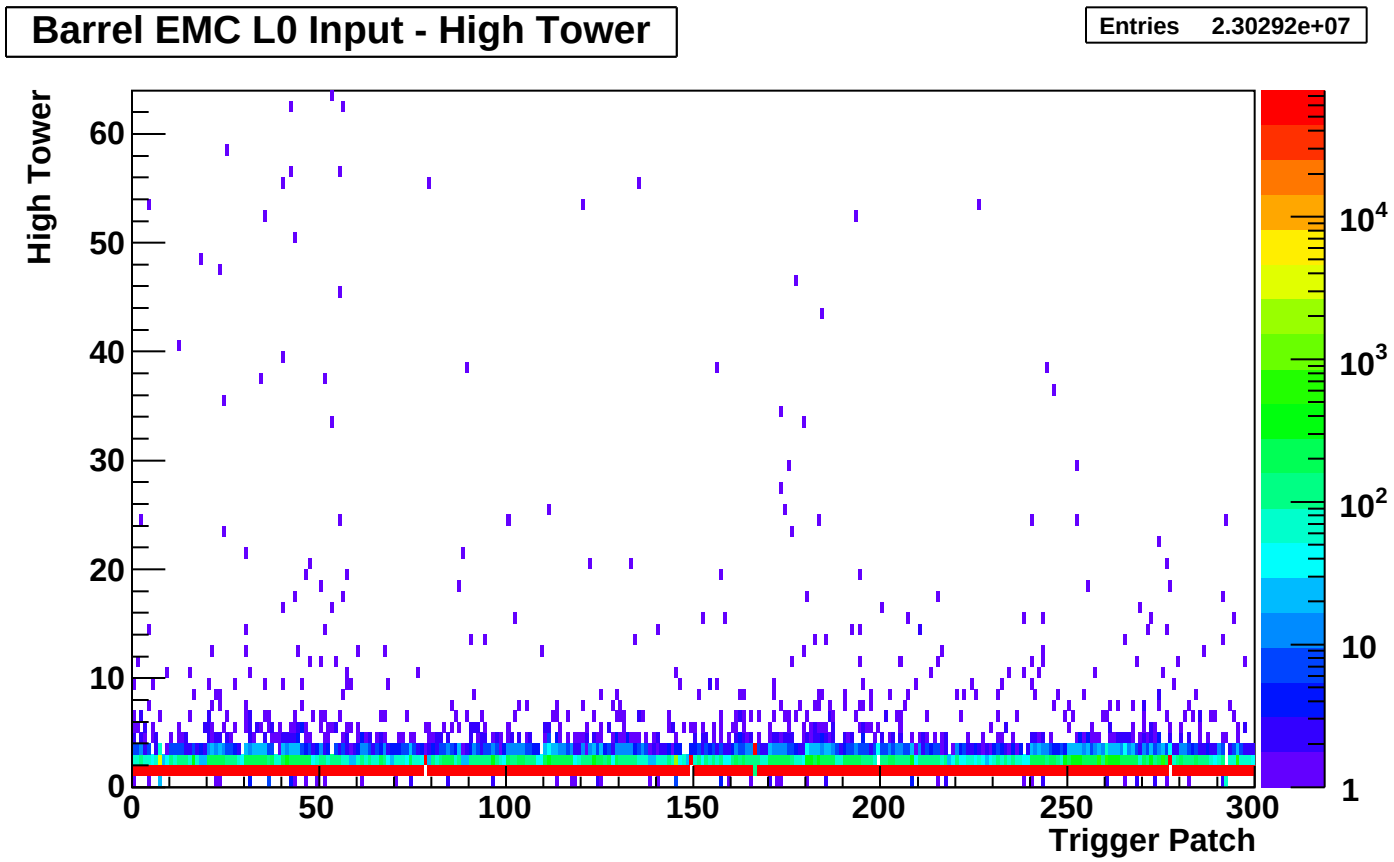

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

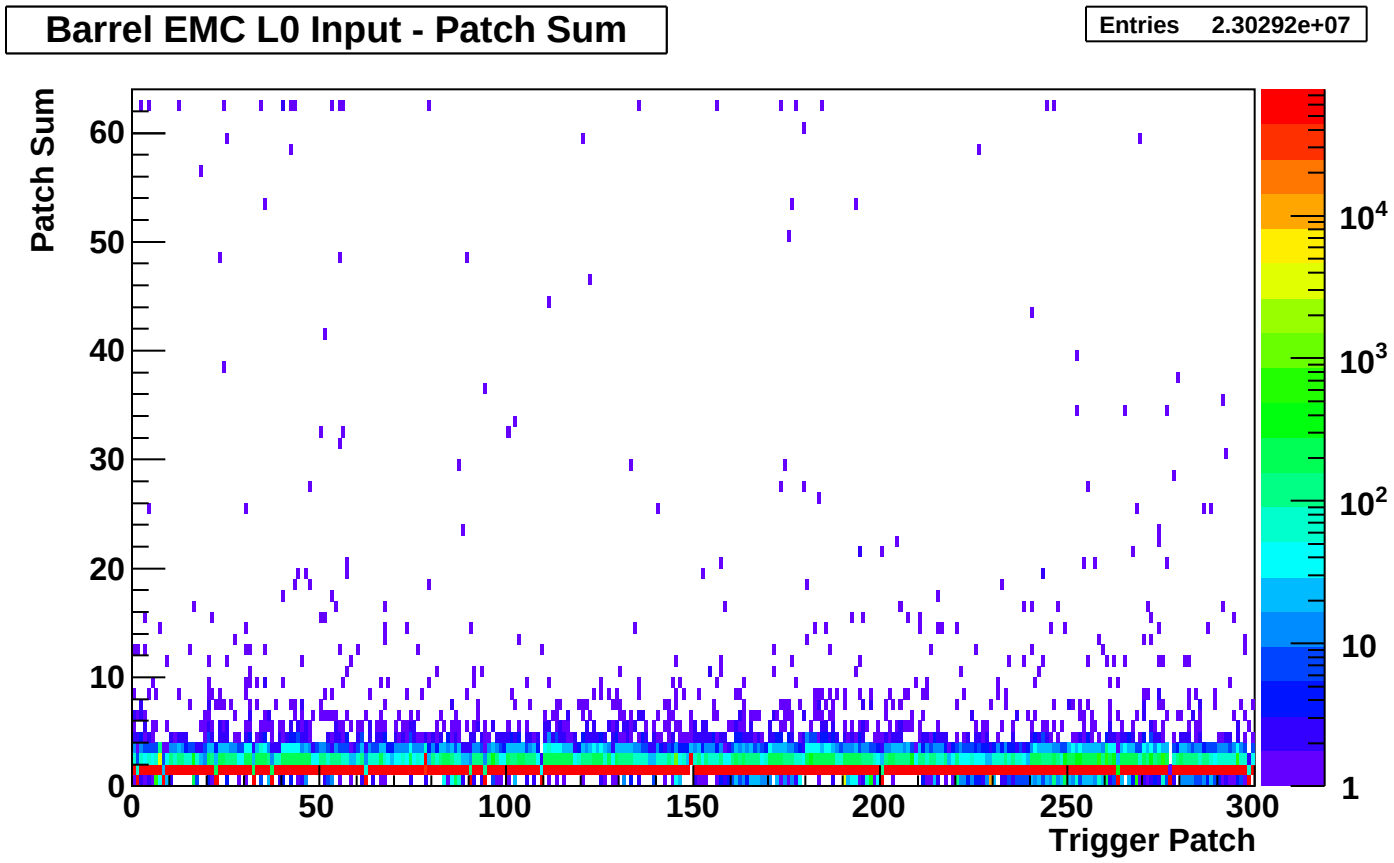

TCU bits
Entries 1228224
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

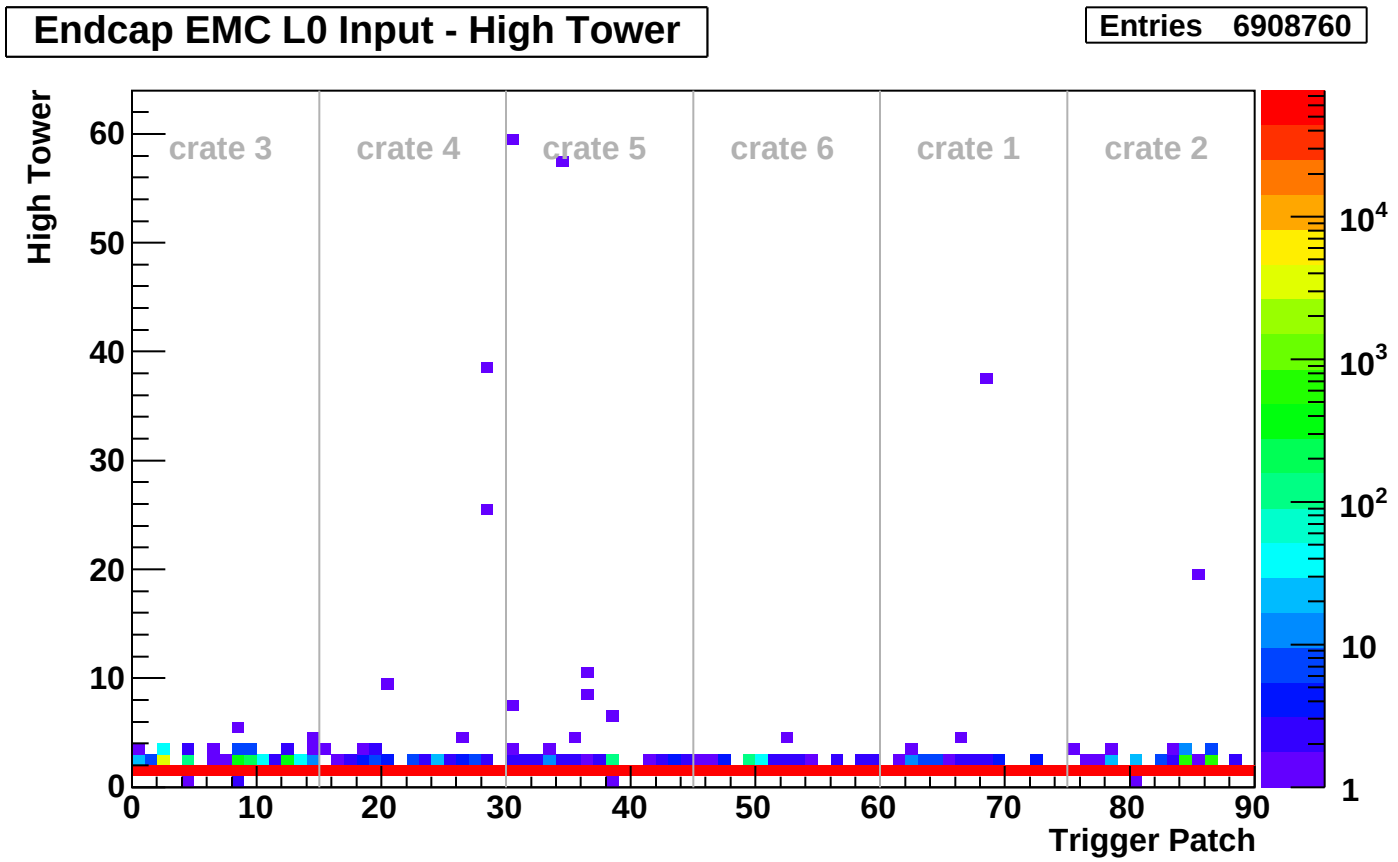

TCU bits
Entries 76902
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

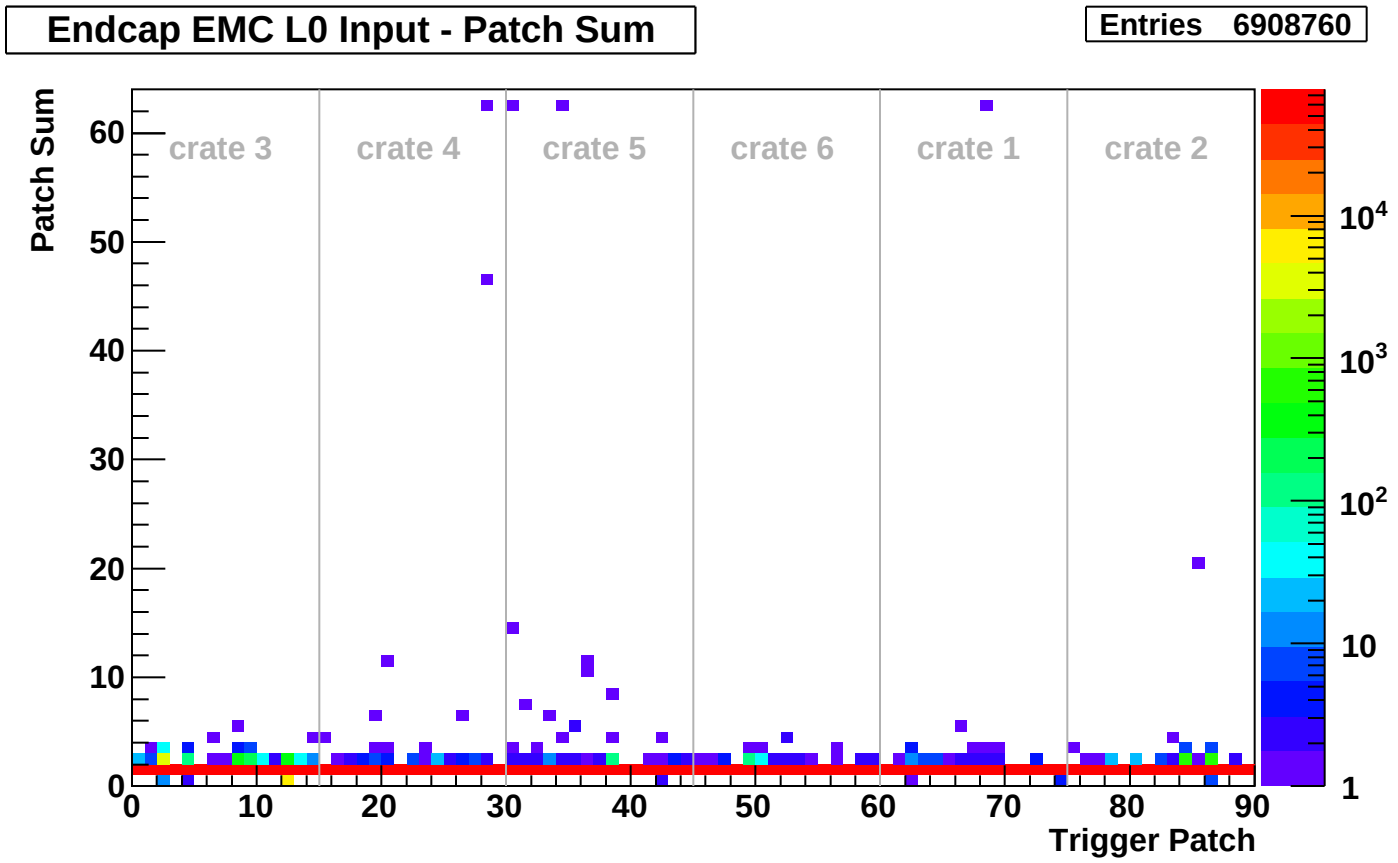

BunchId7Bit (BHT3)
Entries 32

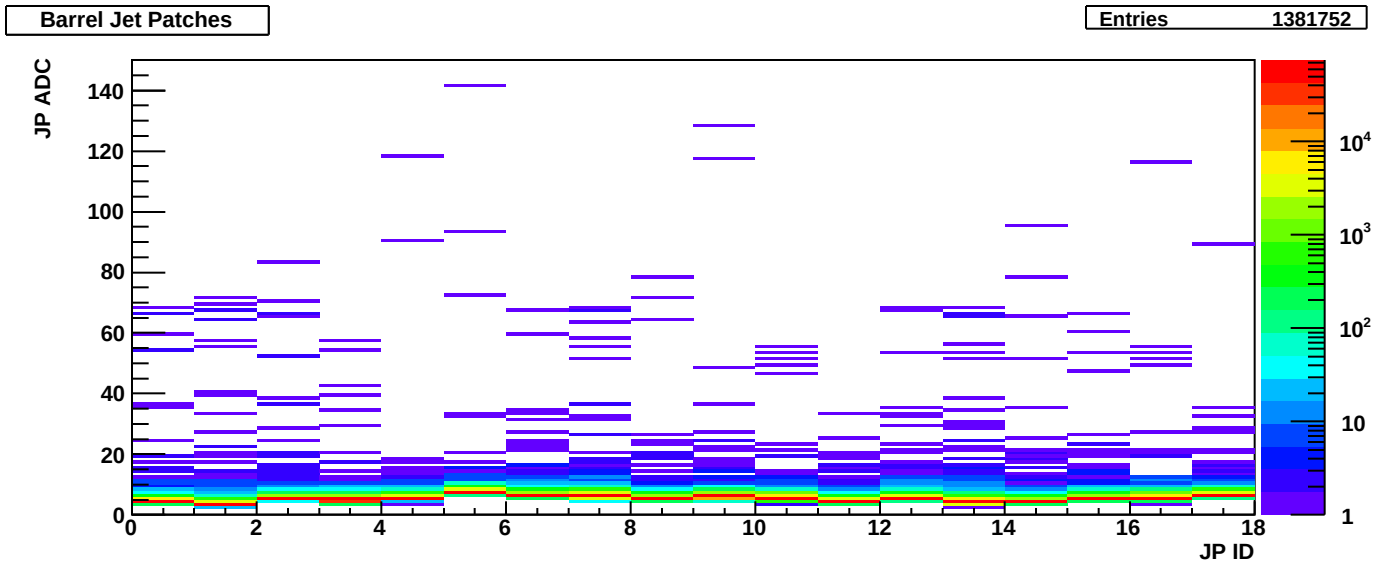

BunchId7Bit (all events)
Entries 76764

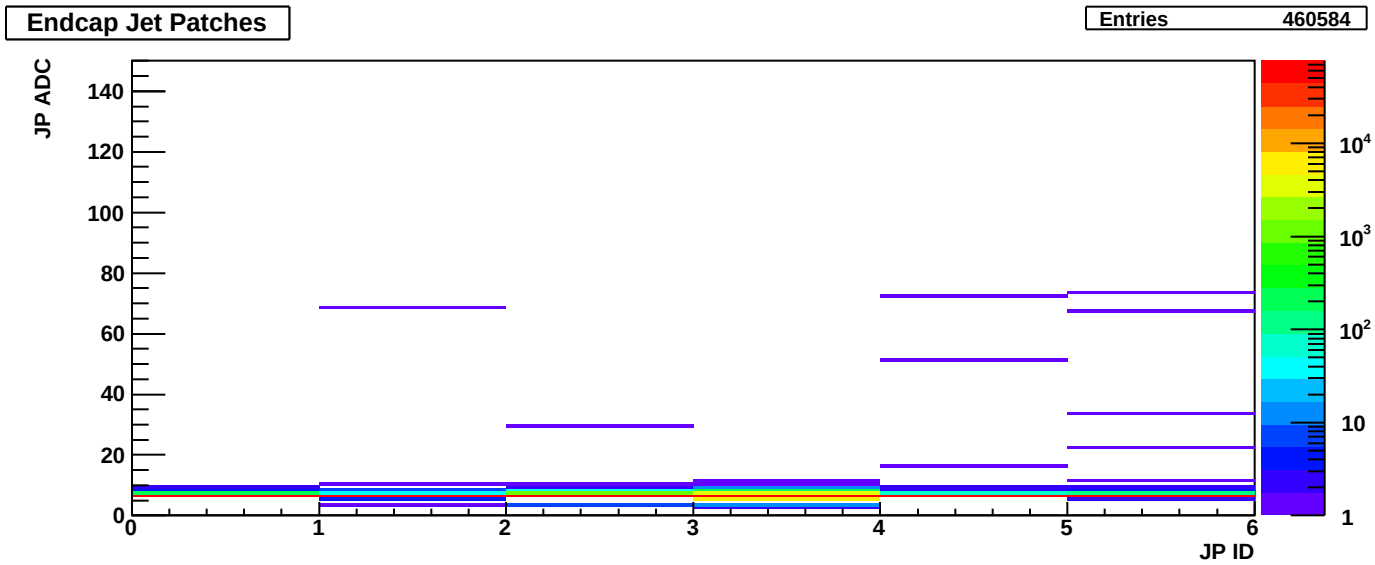

Barrel EMC L0 Input - High Tower
Entries 2.30292e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

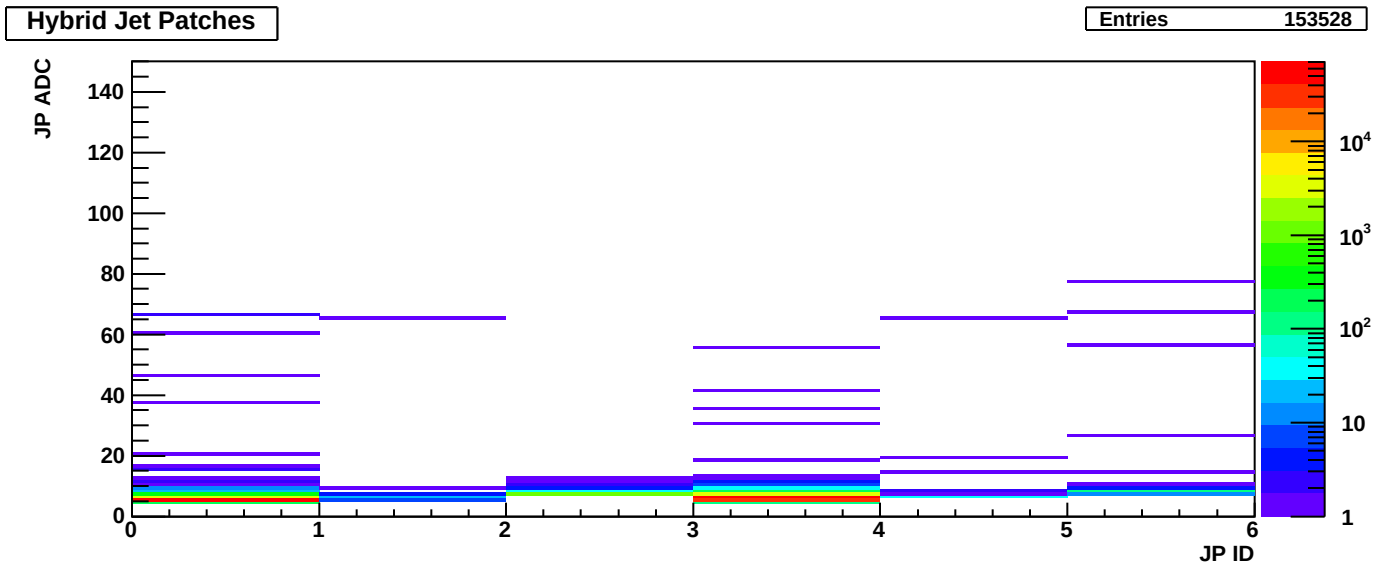

Barrel EMC L0 Input - Patch Sum
Entries 2.30292e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

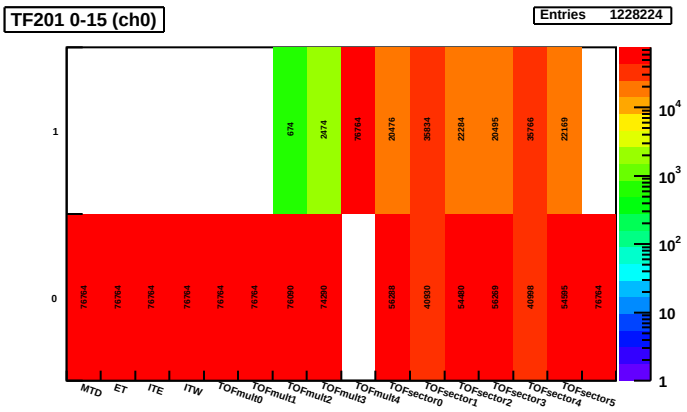

Endcap EMC L0 Input - High Tower
Entries 6908760
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

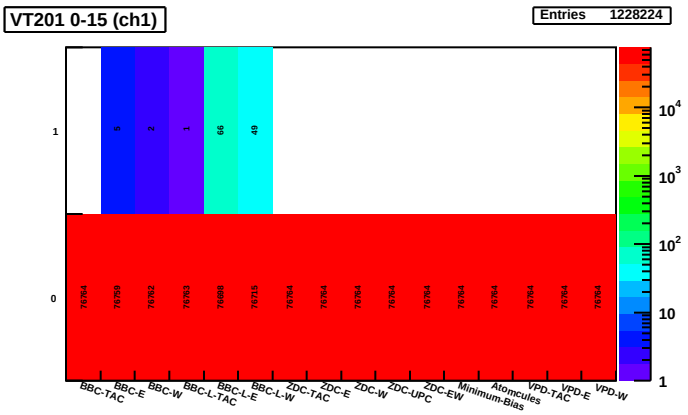

Endcap EMC L0 Input - Patch Sum
Entries 6908760
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

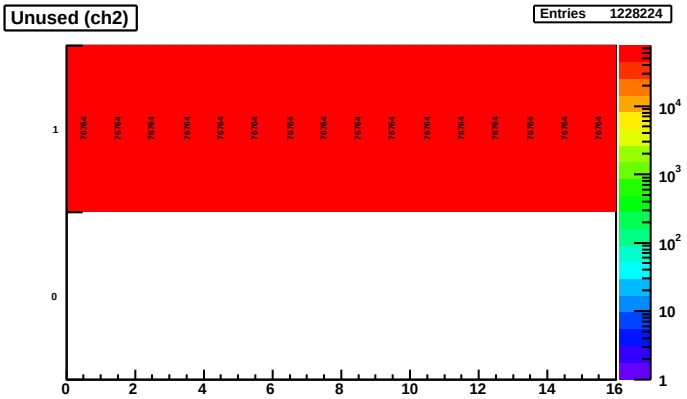

Barrel Jet Patches
Entries 1381752
JP ADC
JP ID

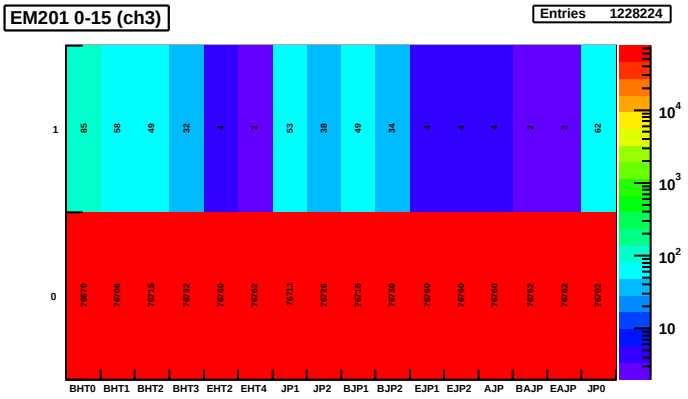

Endcap Jet Patches
Entries 460584
JP ADC
JP ID

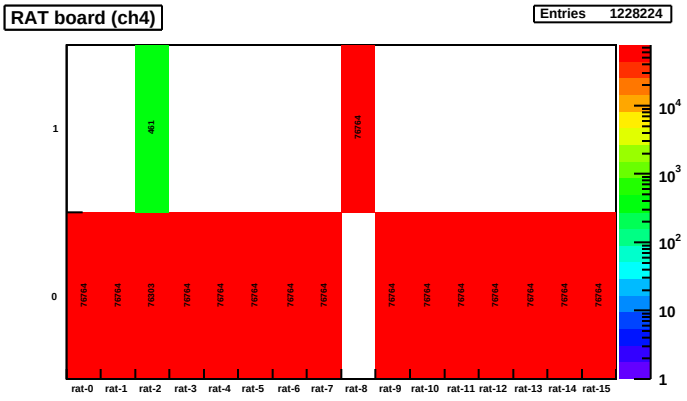

Hybrid Jet Patches
Entries 153528
JP ADC
JP ID

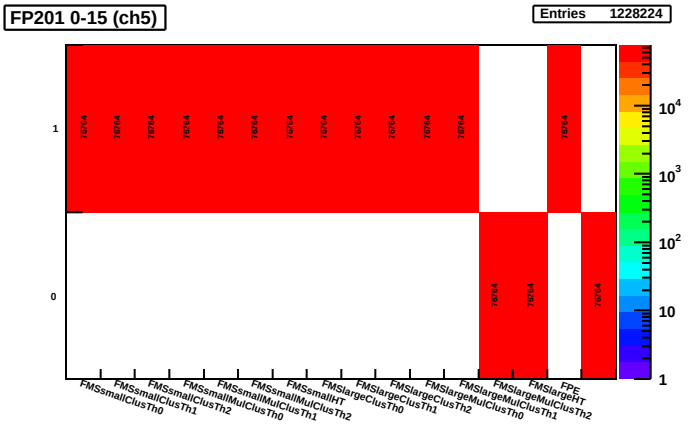

TF201 0-15 (ch0)
Entries 1228224
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

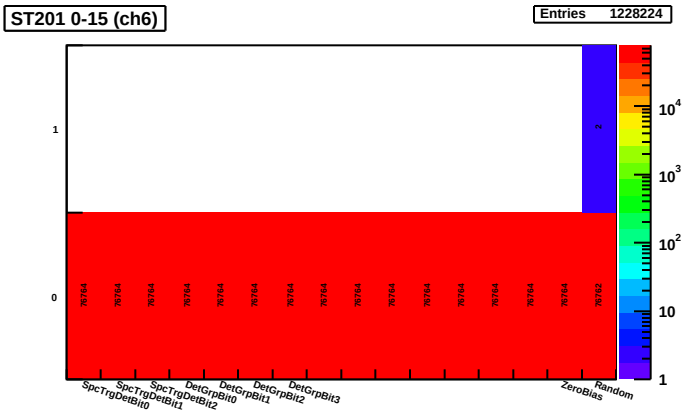

VT201 0-15 (ch1)
Entries 1228224
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

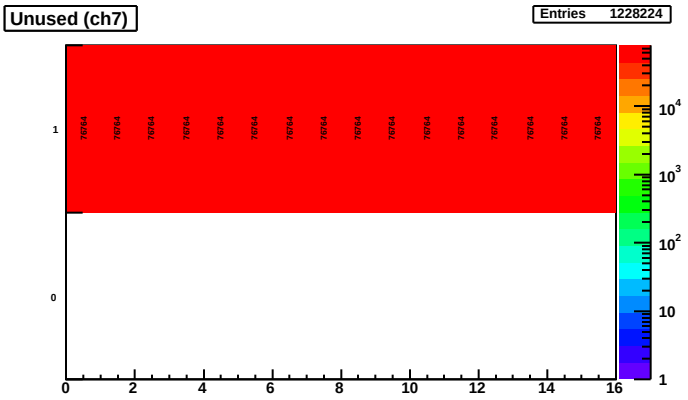

Unused (ch2)
Entries 1228224

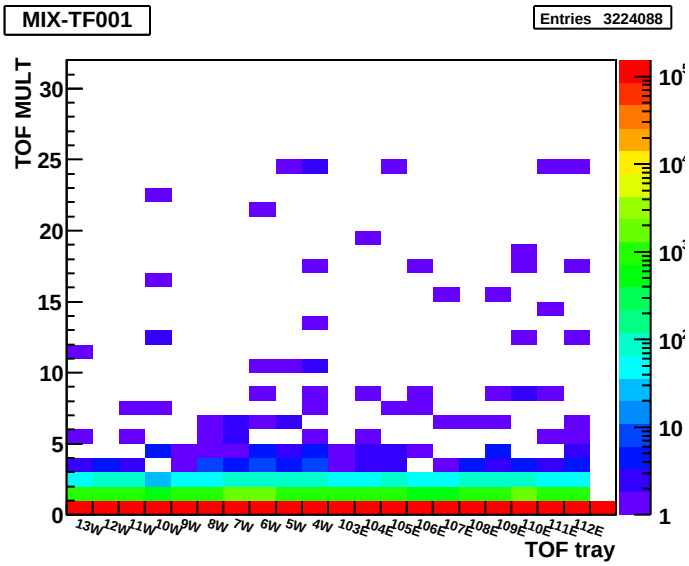

EM201 0-15 (ch3)
Entries 1228224
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

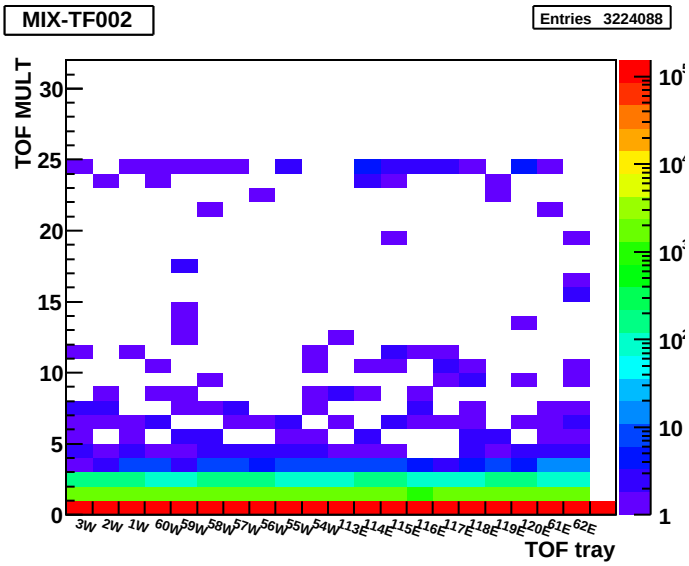

RAT board (ch4)
Entries 1228224
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

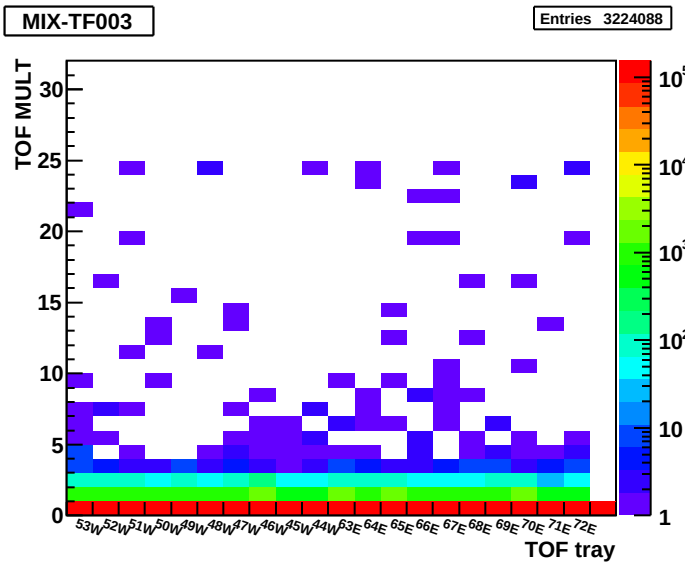

FP201 0-15 (ch5)
Entries 1228224
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

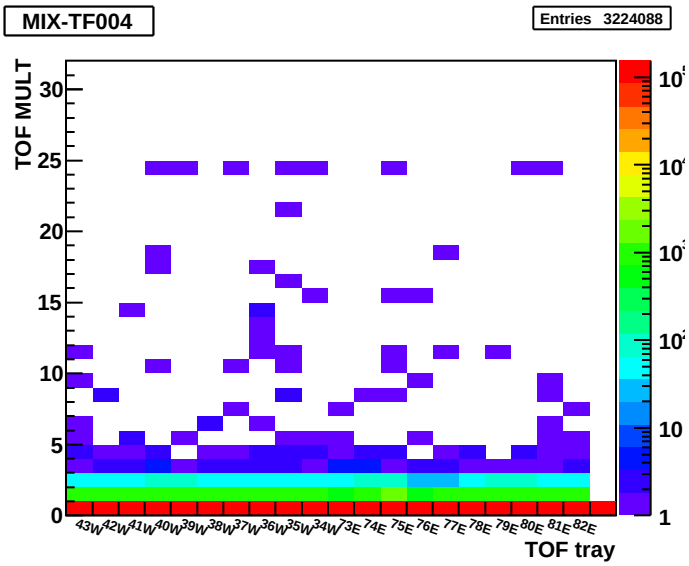

ST201 0-15 (ch6)
Entries 1228224
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetCrpBit0
DetCrpBit1
DetCrpBit2
DetCrpBit3
ZeroBias
Random

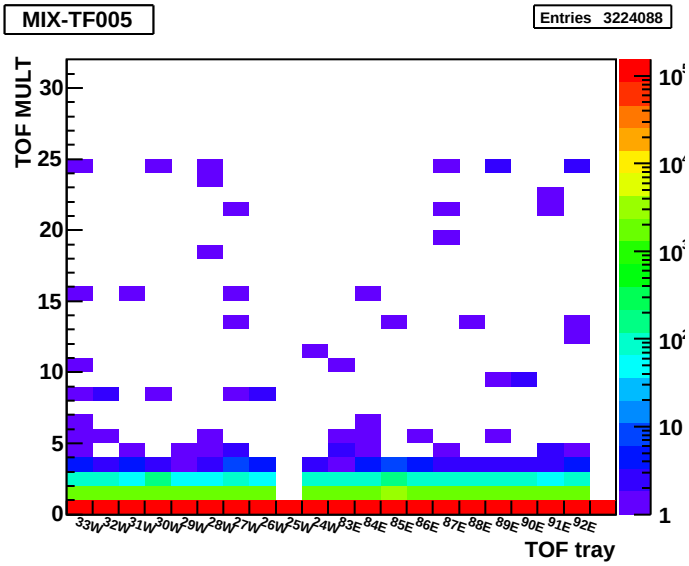

Unused (ch7)
Entries 1228224

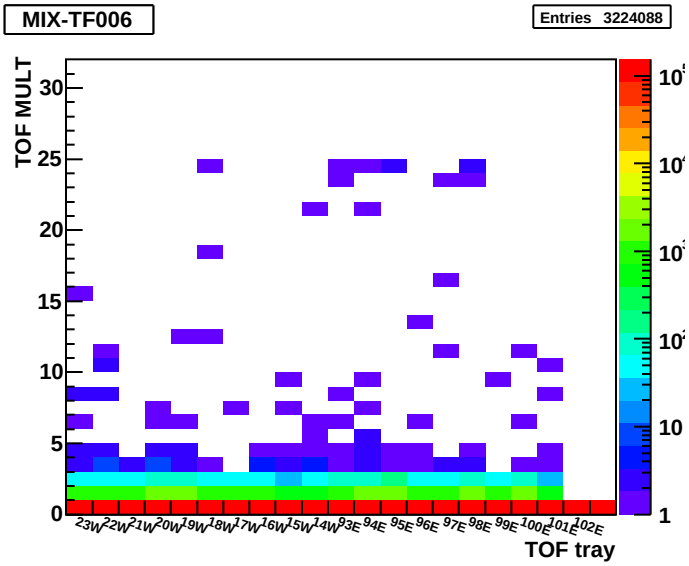

MIX-TF001
Entries 3224088
TOF MULT
TOF tray

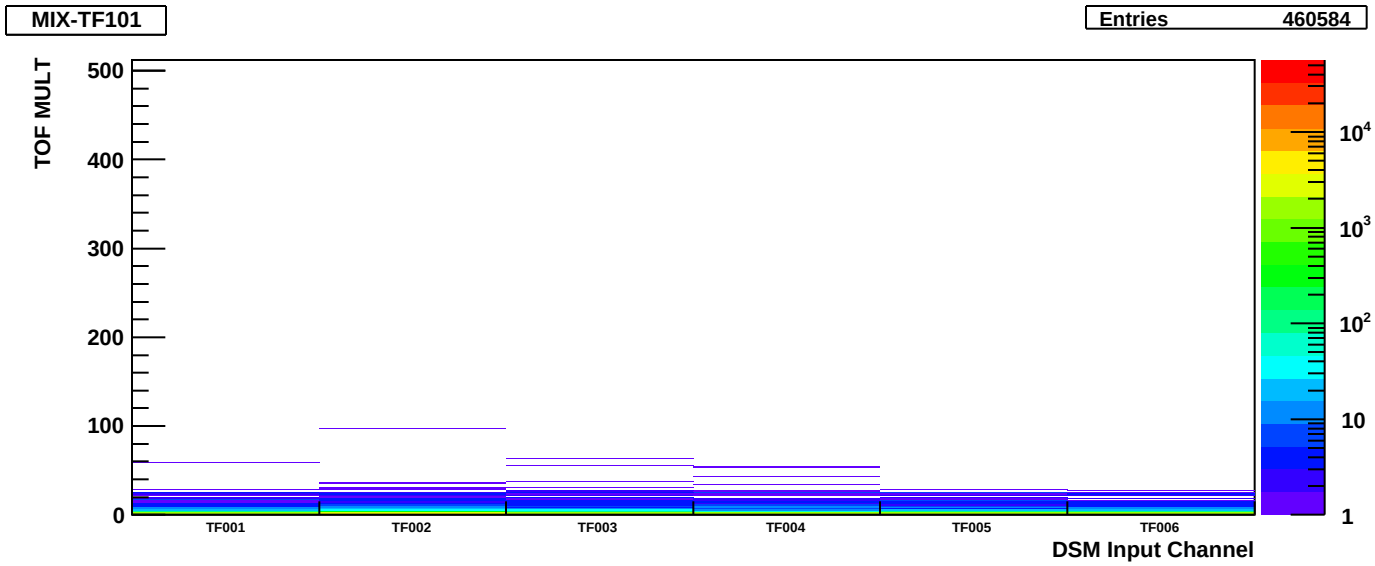

MIX-TF002
Entries 3224088
TOF MULT
TOF tray

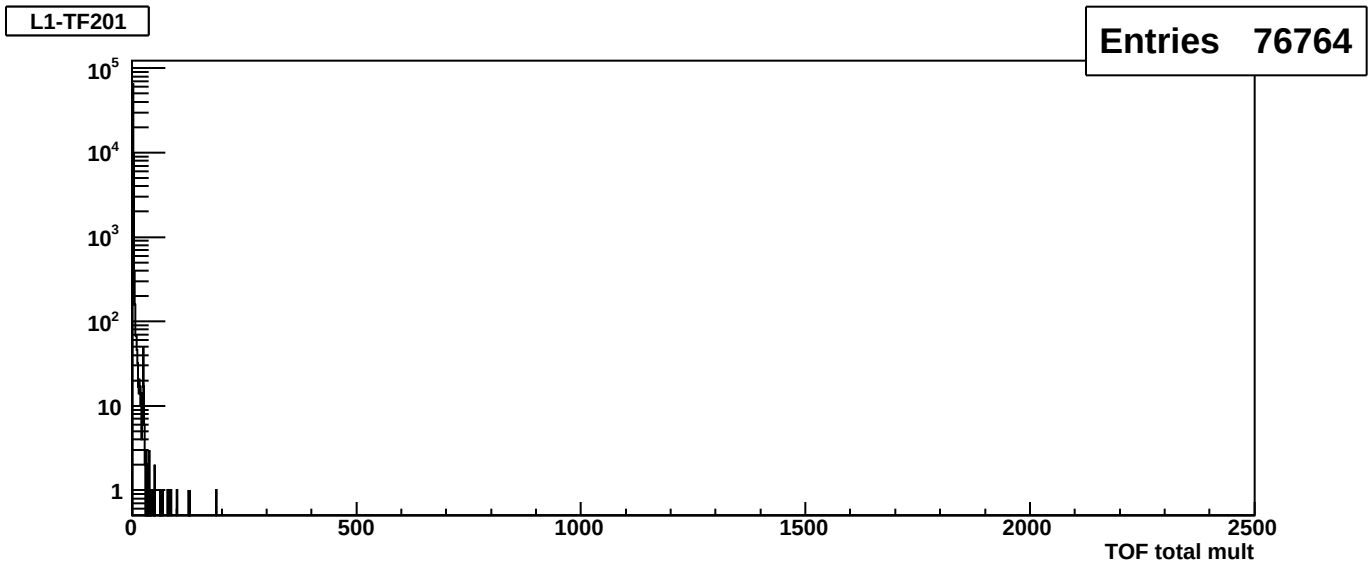

MIX-TF003
Entries 3224088
TOF MULT
TOF tray

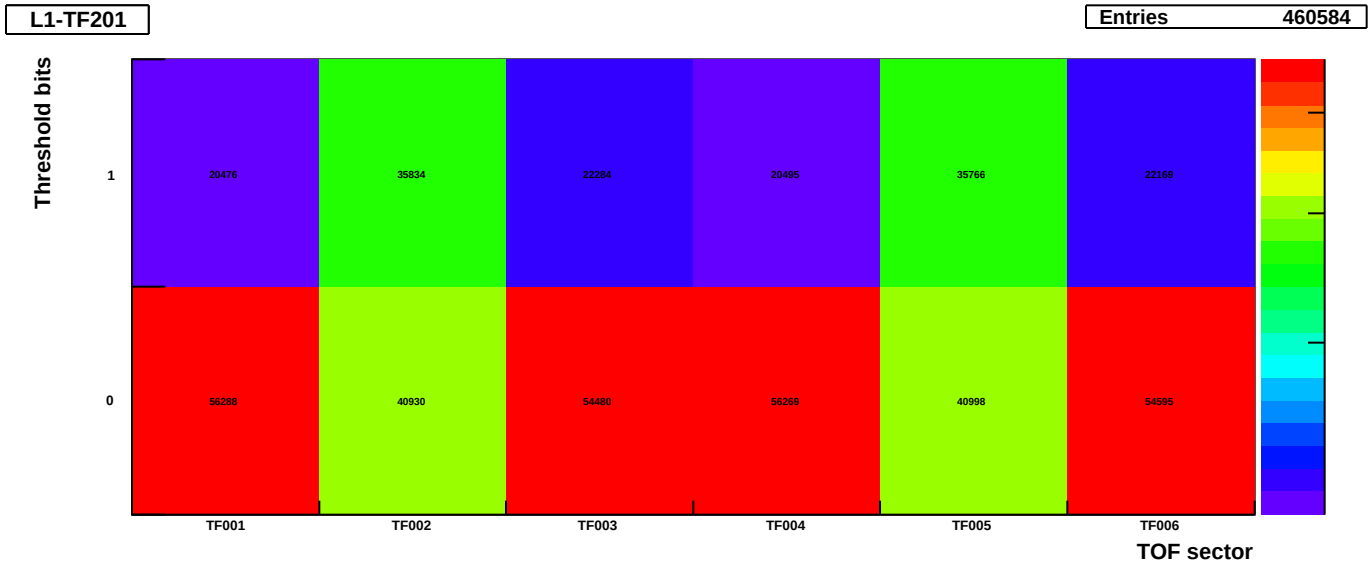

MIX-TF004
Entries 3224088
TOF MULT
TOF tray

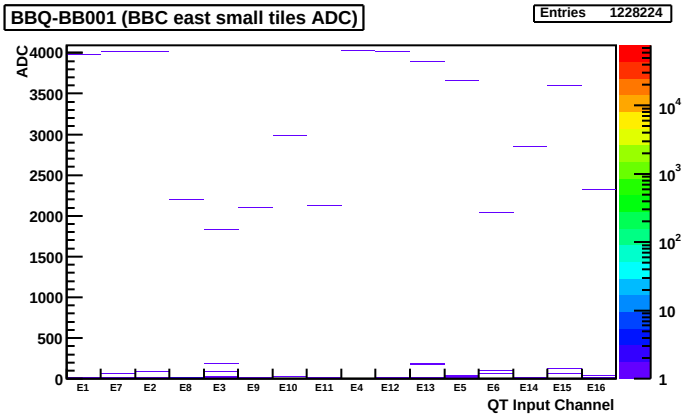

MIX-TF005
Entries 3224088
TOF MULT
TOF tray

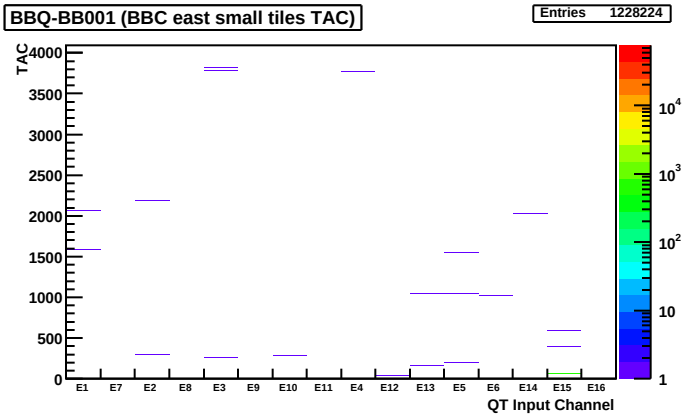

MIX-TF006
Entries 3224088
TOF MULT
TOF tray

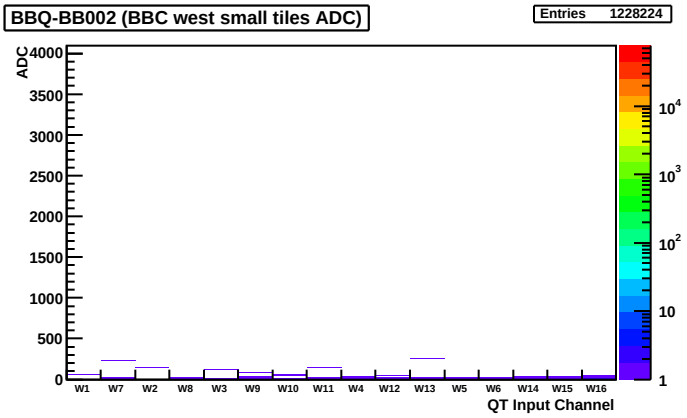

MIX-TF101
Entries 460584
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

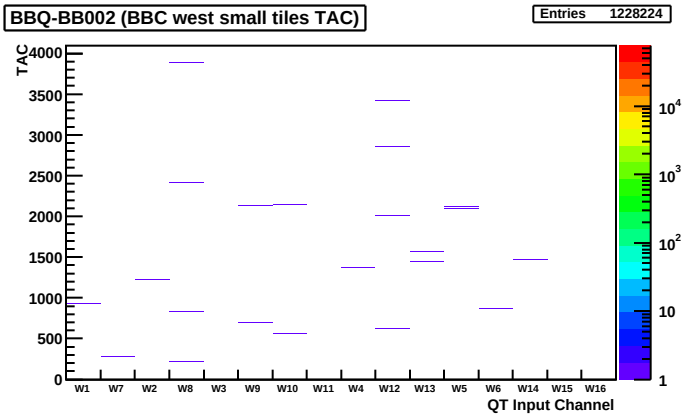

L1-TF201
Entries 76764
10^5
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

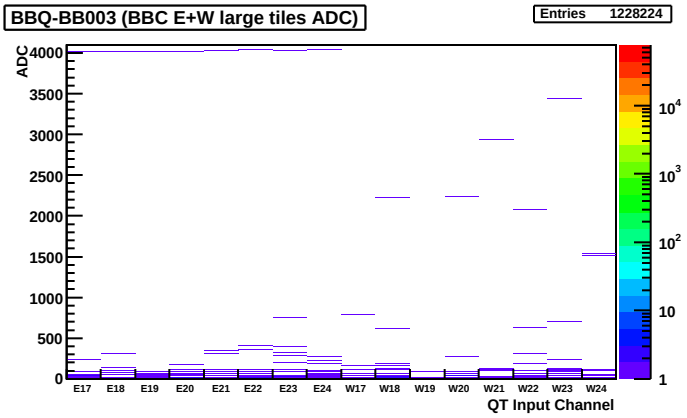

L1-TF201
Entries 460584
Threshold bits
1
0
20476
35834
22284
20495
35766
22169
56288
40930
54480
56269
40998
54595
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

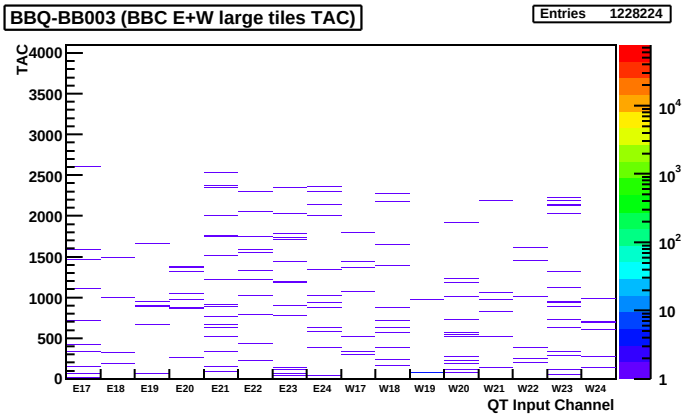

BBQ-BB001 (BBC east small tiles ADC)
Entries 1228224
ADC
QT Input Channel

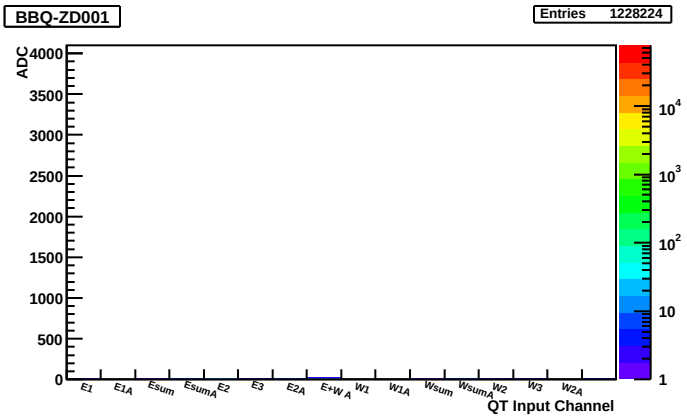

BBQ-BB001 (BBC east small tiles TAC)
Entries 1228224
TAC
QT Input Channel

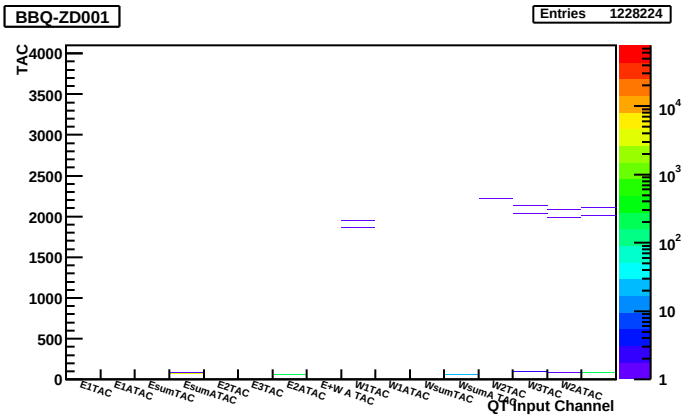

BBQ-BB002 (BBC west small tiles ADC)
Entries 1228224
ADC
QT Input Channel

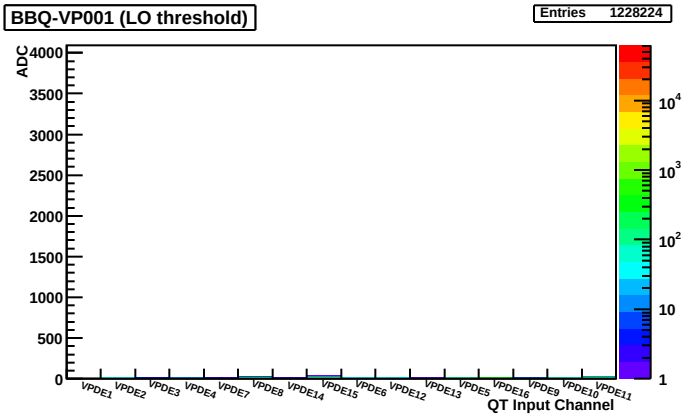

BBQ-BB002 (BBC west small tiles TAC)
Entries 1228224
TAC
QT Input Channel

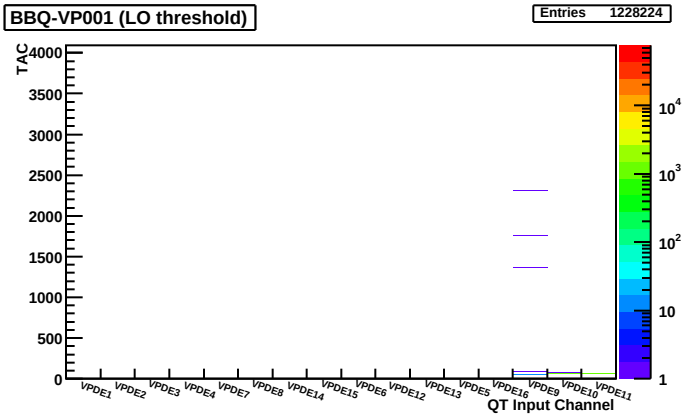

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1228224
ADC
QT Input Channel

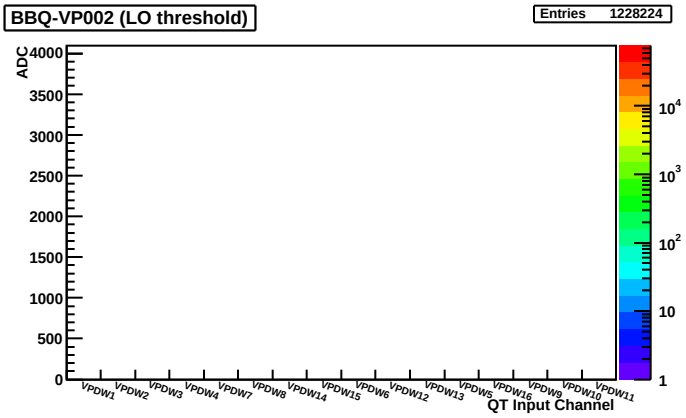

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1228224
TAC
QT Input Channel

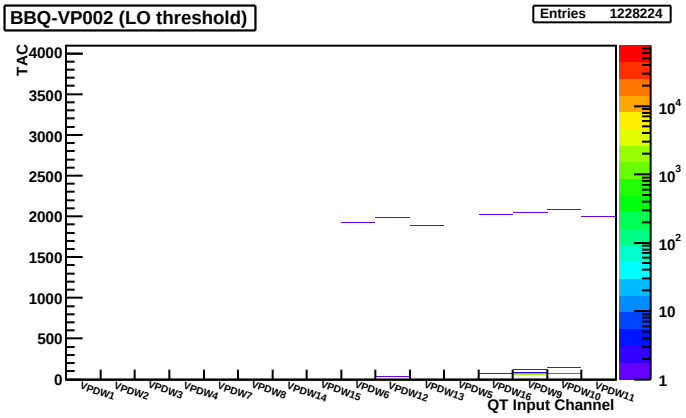

BBQ-ZD001
Entries 1228224
ADC
QT Input Channel

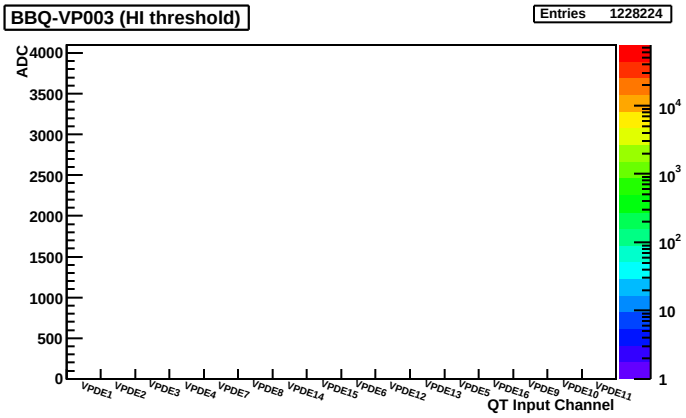

BBQ-ZD001
Entries 1228224
TAC
QT Input Channel

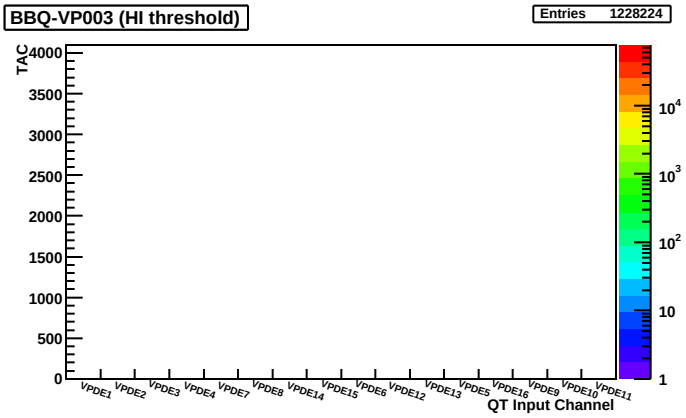

BBQ-VP001 (LO threshold)
Entries 1228224
ADC
QT Input Channel

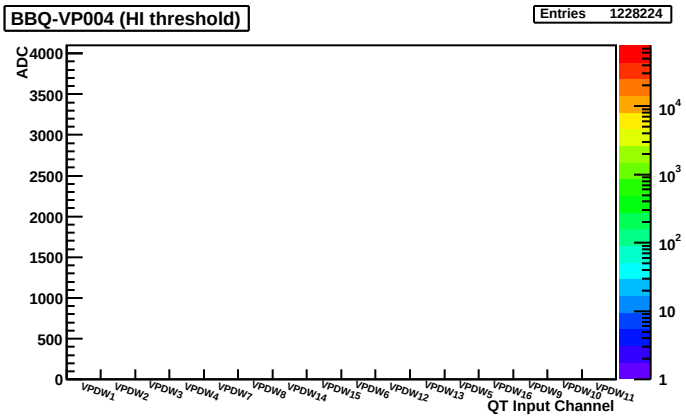

BBQ-VP001 (LO threshold)
Entries 1228224
TAC
QT Input Channel

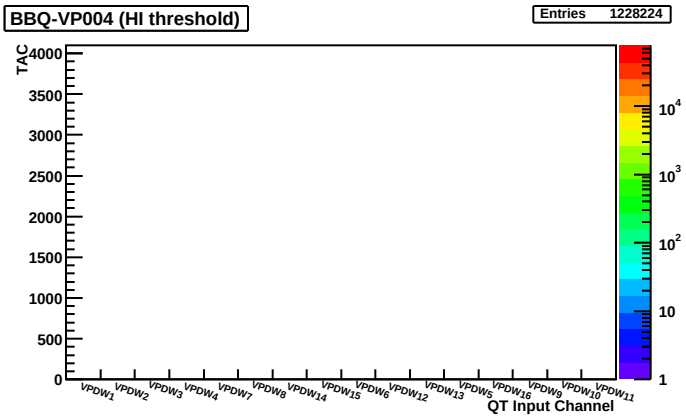

BBQ-VP002 (LO threshold)
Entries 1228224
ADC
QT Input Channel

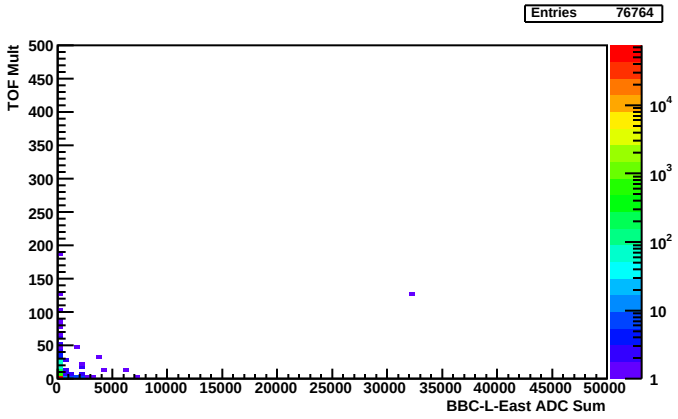

BBQ-VP002 (LO threshold)
Entries 1228224
TAC
QT Input Channel

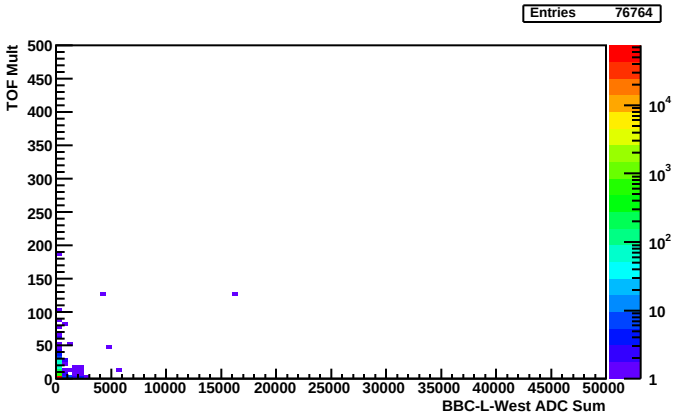

BBQ-VP003 (HI threshold)
Entries 1228224
ADC
QT Input Channel

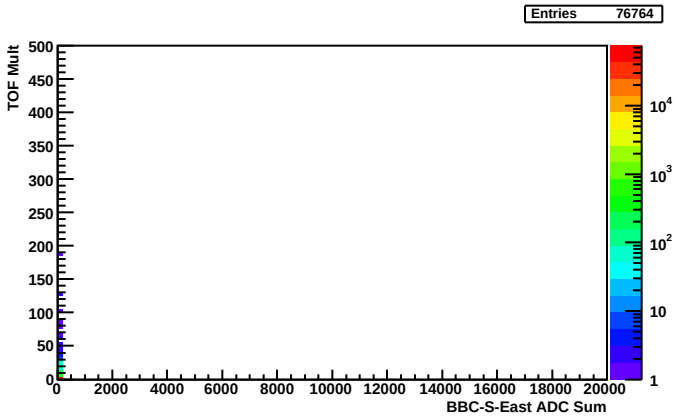

BBQ-VP003 (HI threshold)
Entries 1228224
TAC
QT Input Channel

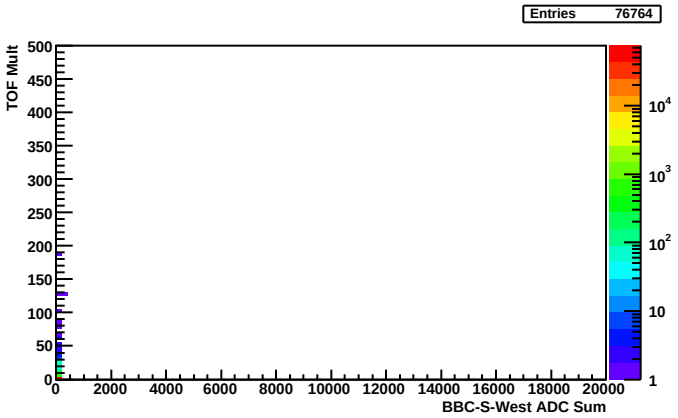

BBQ-VP004 (HI threshold)
Entries 1228224
ADC
QT Input Channel

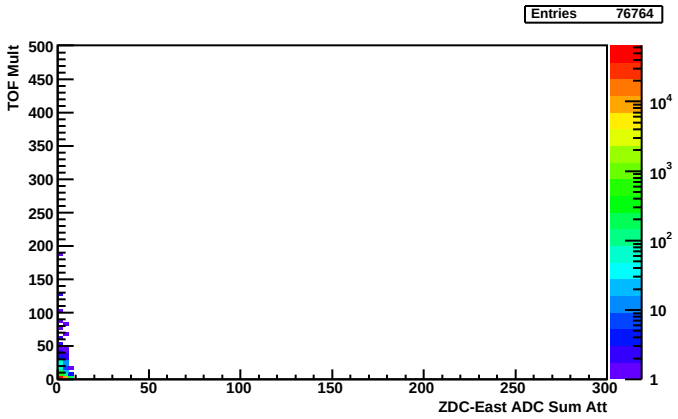

BBQ-VP004 (HI threshold)
Entries 1228224
TAC
QT Input Channel

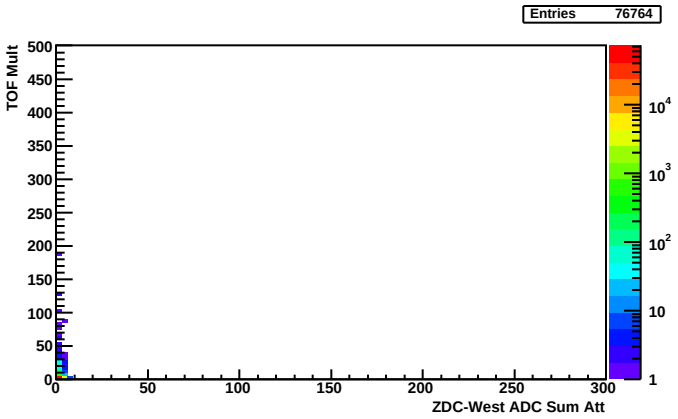

Entries 76764
TOF Mult
BBC-L-East ADC Sum

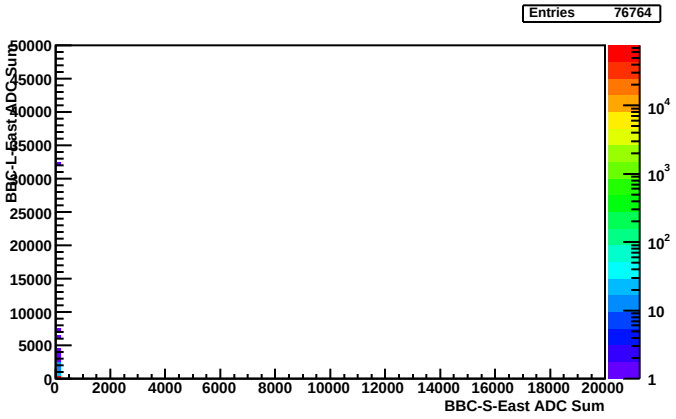

Entries 76764
TOF Mult
BBC-L-West ADC Sum

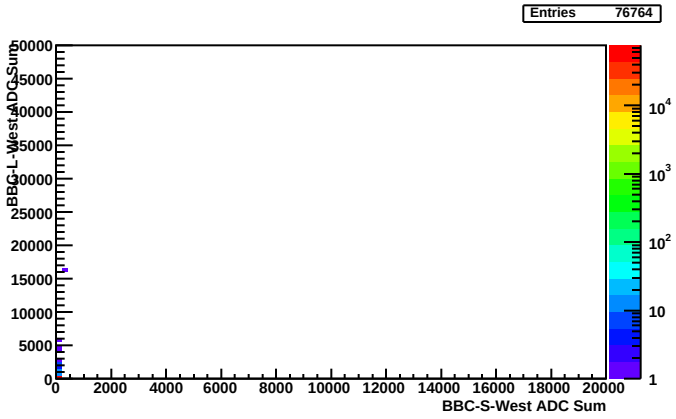

Entries 76764
TOF Mult
BBC-S-East ADC Sum

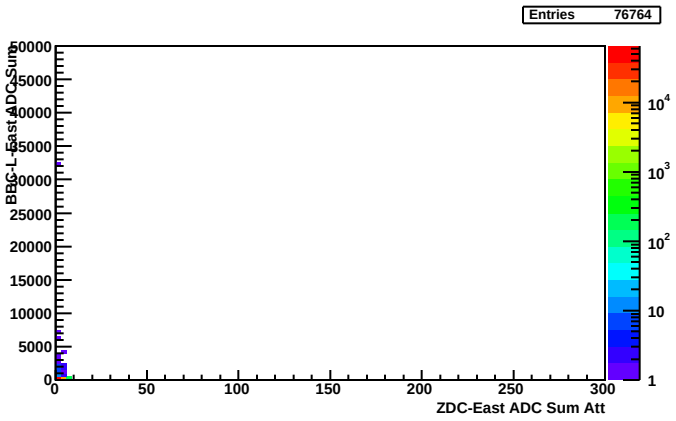

Entries 76764
TOF Mult
BBC-S-West ADC Sum

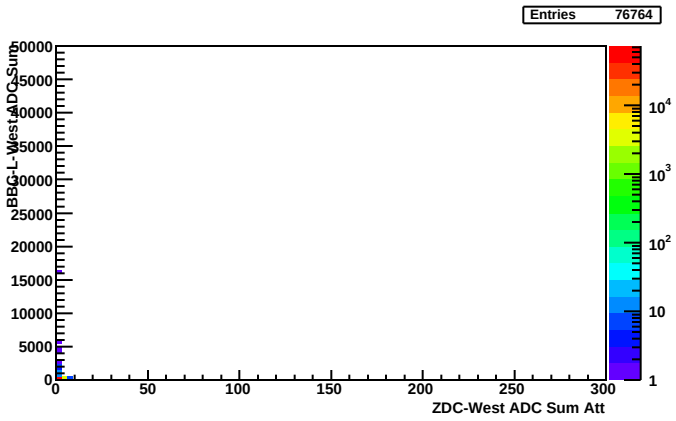

Entries 76764
TOF Mult
ZDC-East ADC Sum Att

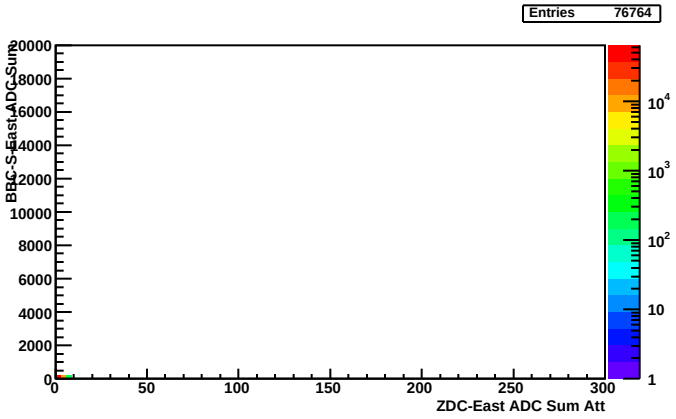

Entries 76764
TOF Mult
ZDC-West ADC Sum Att

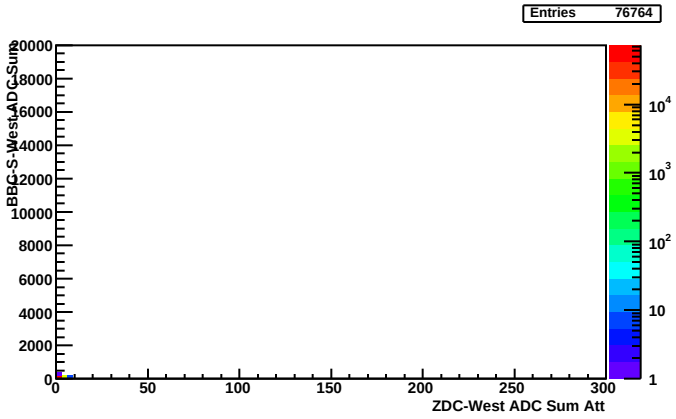

Entries 76764
BBC-L-East ADC Sum
BBC-S-East ADC Sum

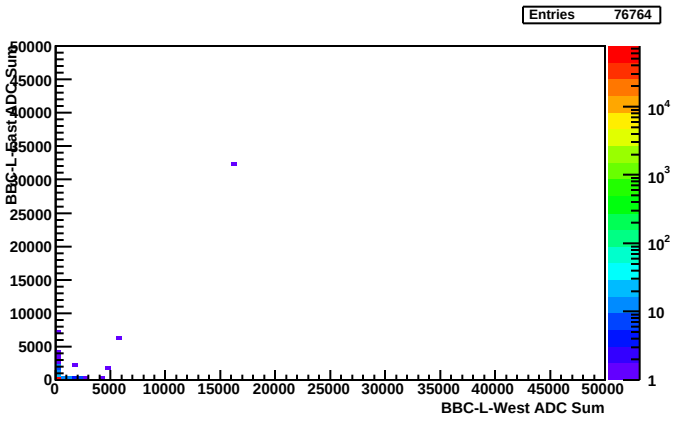

Entries 76764
BBC-L-West ADC Sum
BBC-S-West ADC Sum

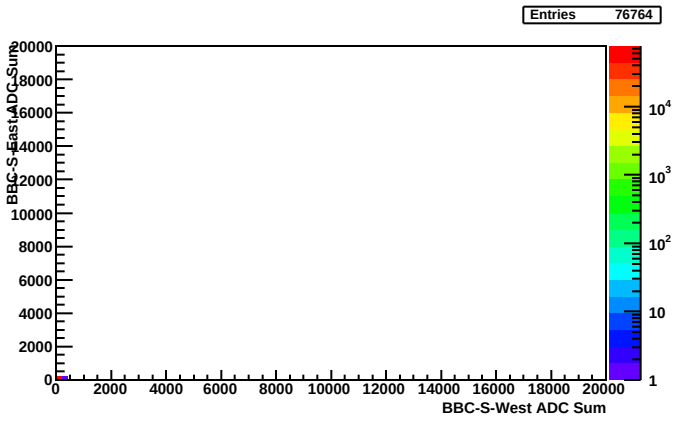

Entries 76764
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

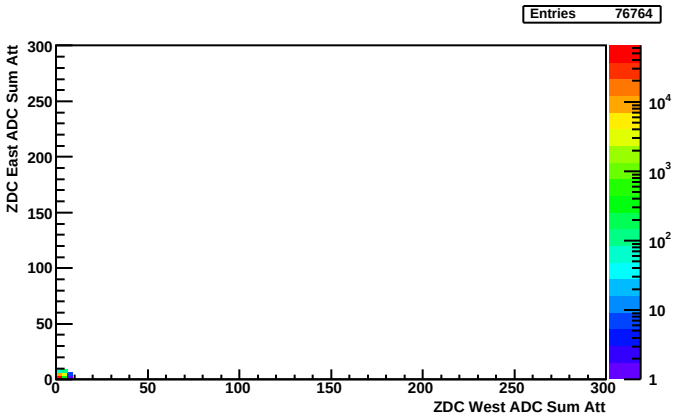

Entries 76764
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

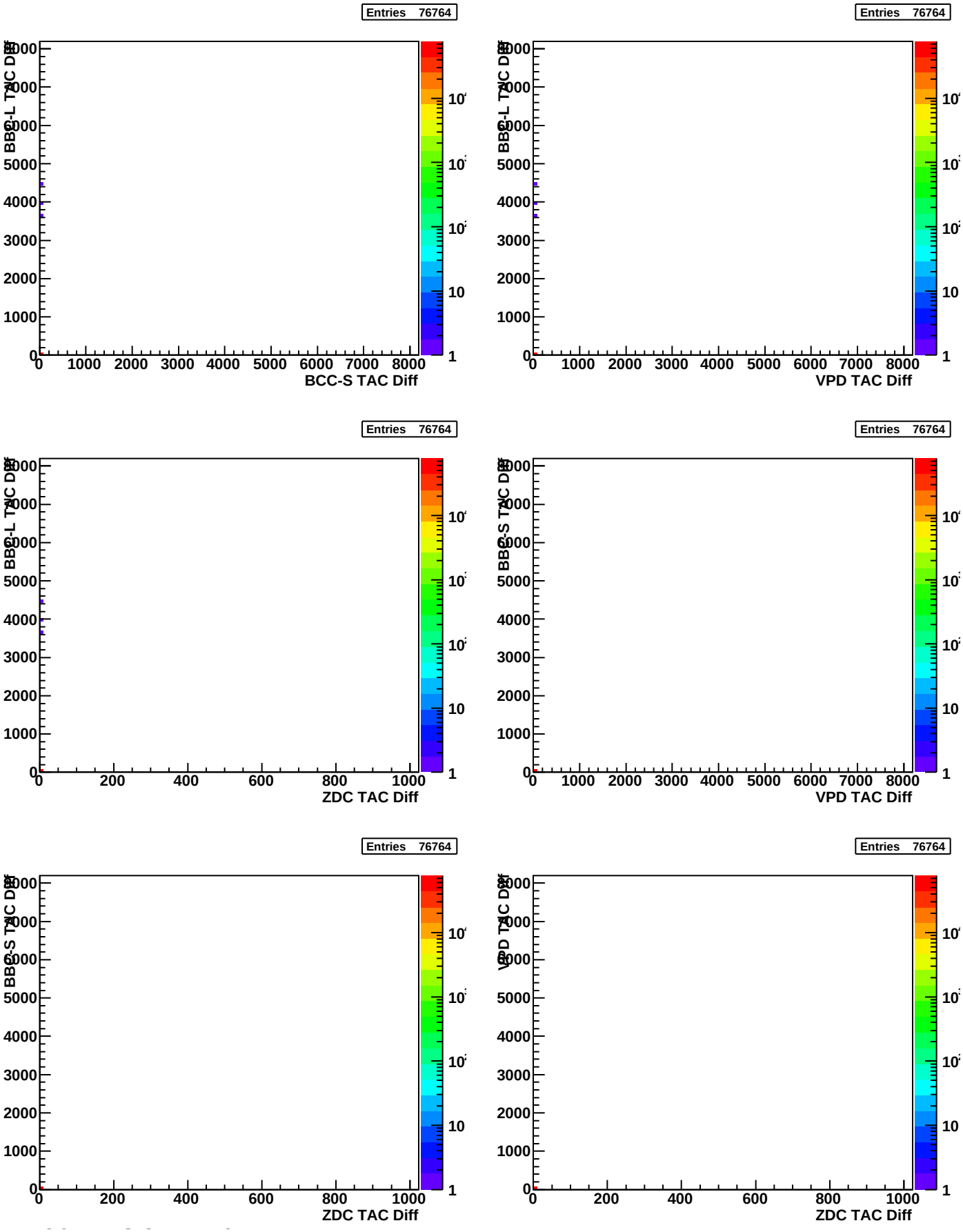

Entries 76764
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

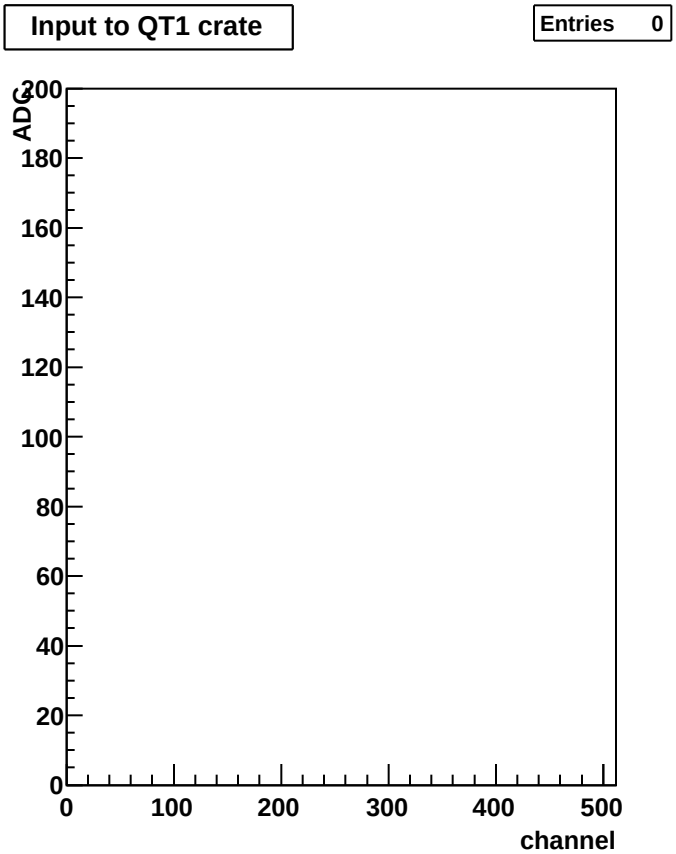

Entries 76764
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

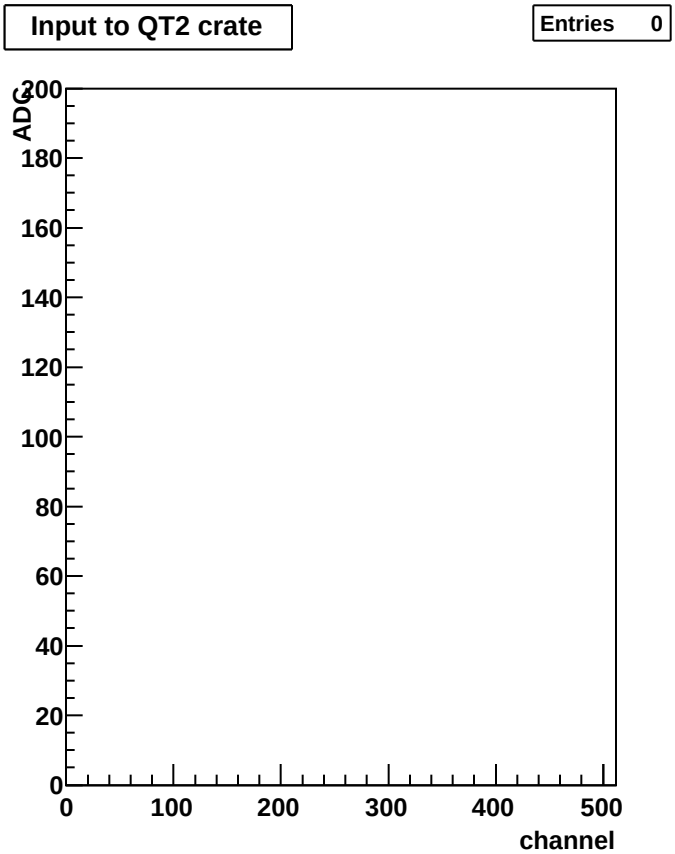

Entries 76764
BBC-L-East ADC Sum
BBC-L-West ADC Sum

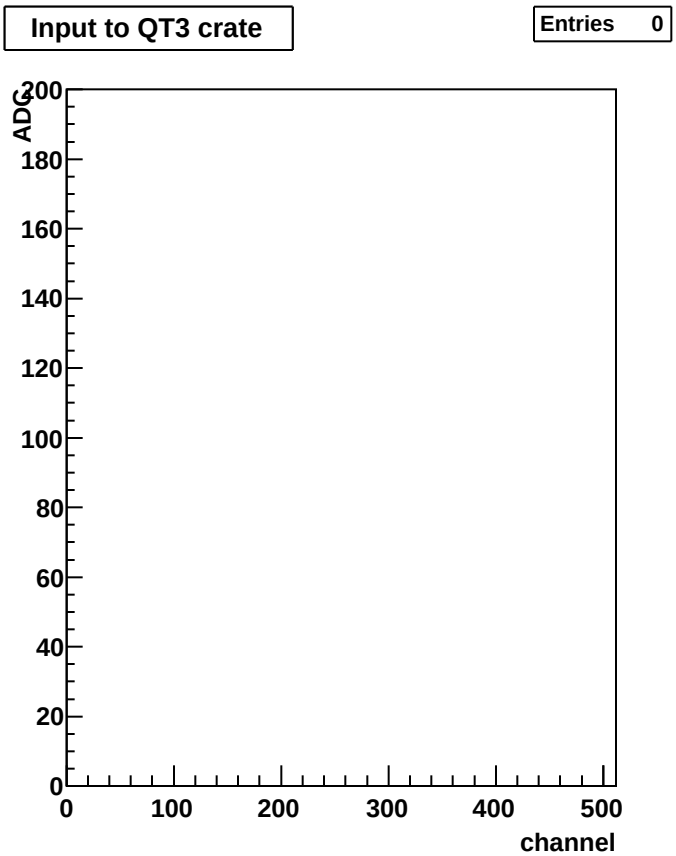

Entries 76764
BBC-S-East ADC Sum
BBC-S-West ADC Sum

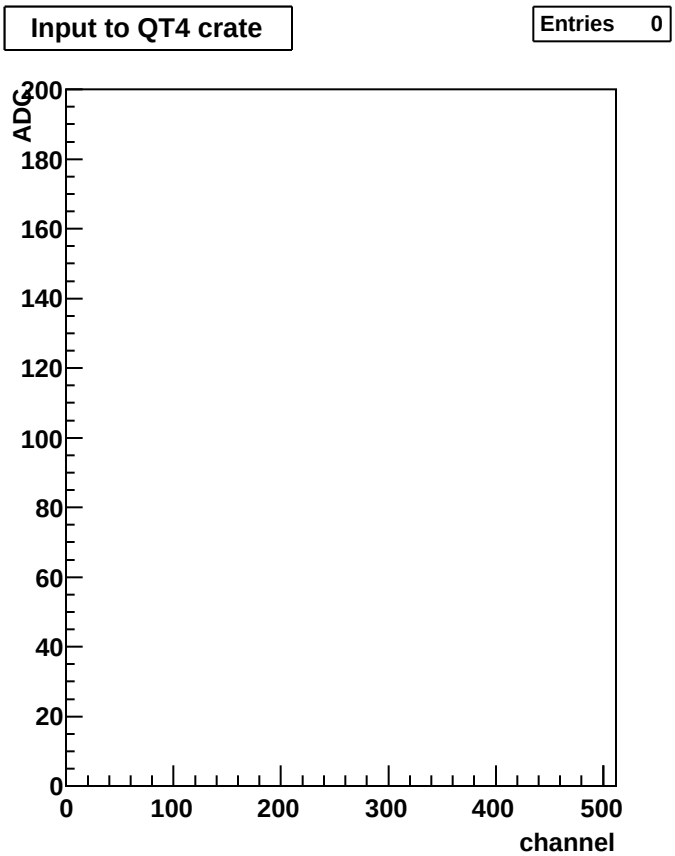

Entries 76764
ZDC East ADC Sum Att
ZDC West ADC Sum Att

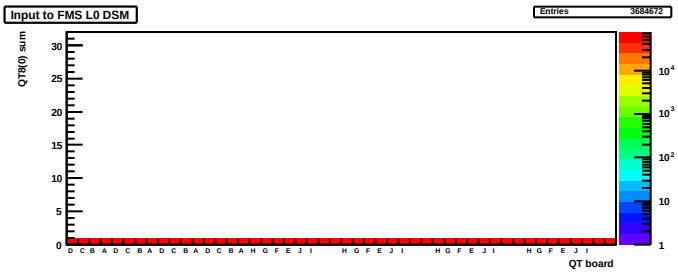

Entries 76764
BBC-L TAC Diff
BCC-S TAC Diff
Entries 76764
BBC-L TAC Diff
VPD TAC Diff
Entries 76764
BBC-L TAC Diff
ZDC TAC Diff
Entries 76764
BBC-S TAC Diff
VPD TAC Diff
Entries 76764
BBC-S TAC Diff
ZDC TAC Diff
Entries 76764
VPD TAC Diff
ZDC TAC Diff

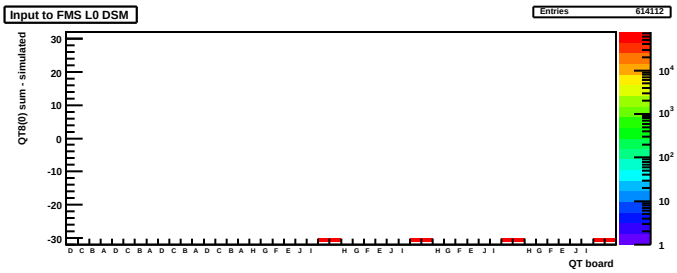

Input to QT1 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

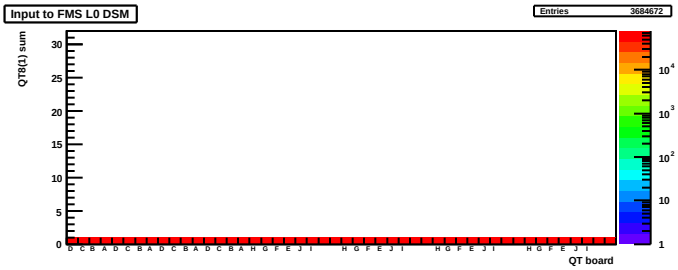

Input to QT2 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

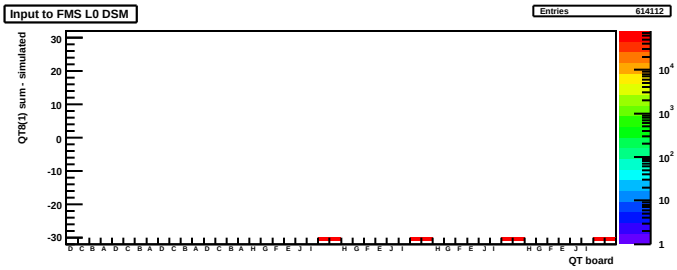

Input to QT3 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

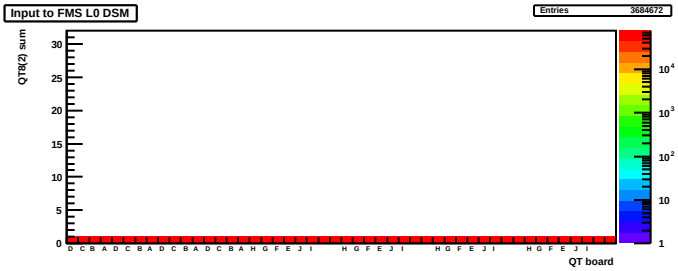

Input to QT4 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

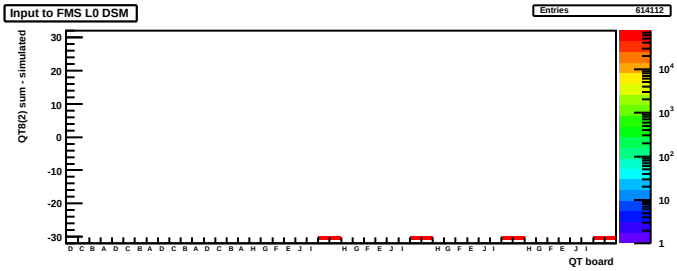

Input to FMS L0 DSM
Entries 3684672
QT8(0) sum
QT board

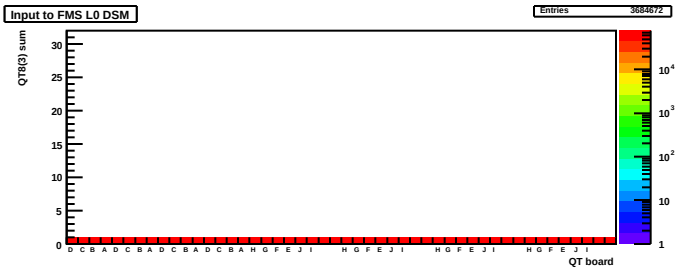

Input to FMS L0 DSM
Entries 614112
QT8(0) sum - simulated
QT board

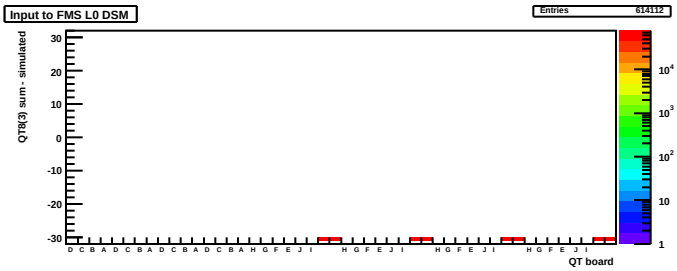

Input to FMS L0 DSM
Entries 3684672
QT8(1) sum
QT board

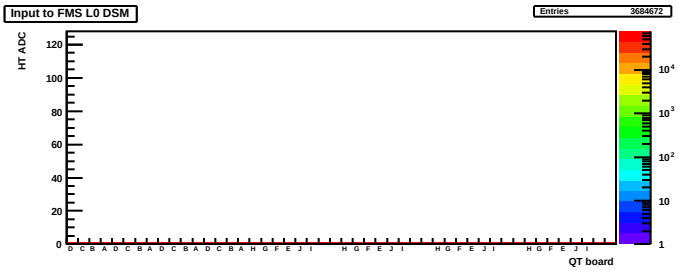

Input to FMS L0 DSM
Entries 614112
QT8(1) sum - simulated
QT board

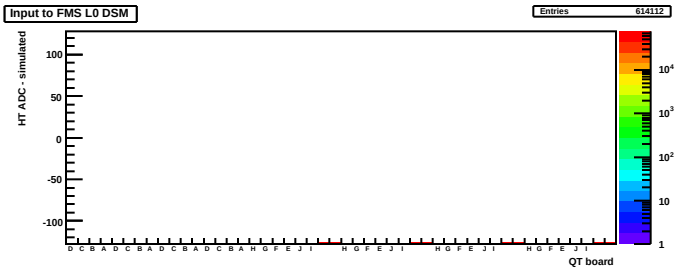

Input to FMS L0 DSM
Entries 3684672
QT8(2) sum
QT board

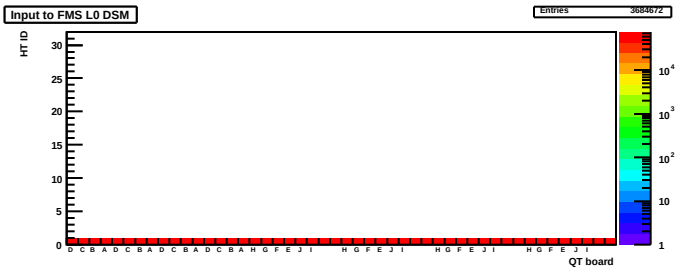

Input to FMS L0 DSM
Entries 614112
QT8(2) sum - simulated
QT board

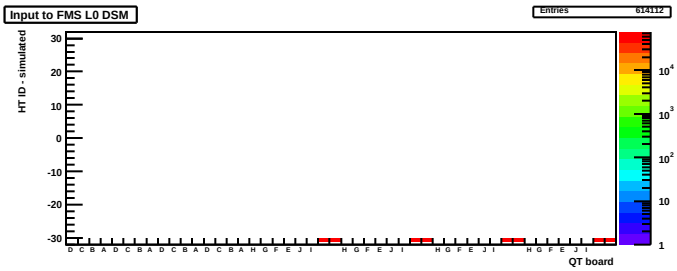

Input to FMS L0 DSM
Entries 3684672
QT8(3) sum
QT board

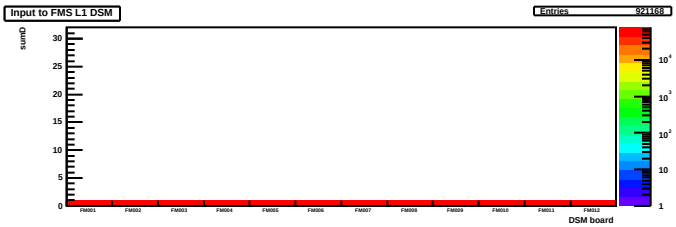

Input to FMS L0 DSM
Entries 614112
QT8(3) sum - simulated
QT board

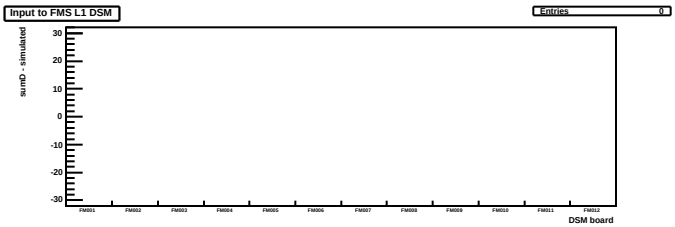

Input to FMS L0 DSM
Entries 3684672
HT ADC
QT board

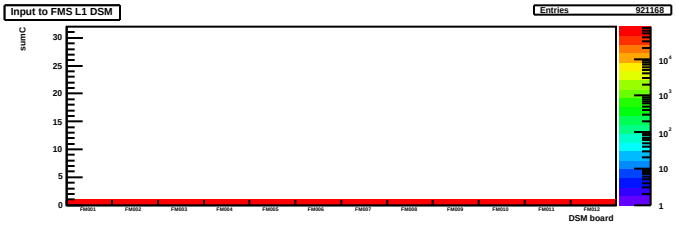

Input to FMS L0 DSM
Entries 614112
HT ADC - simulated
QT board

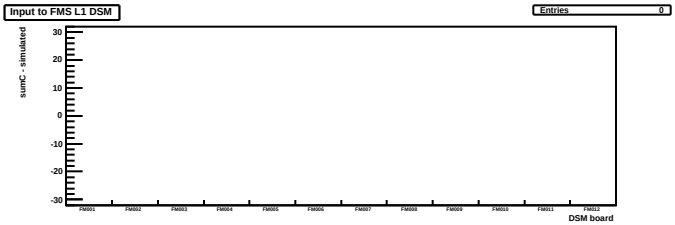

Input to FMS L0 DSM
Entries 3684672
HT ID
QT board

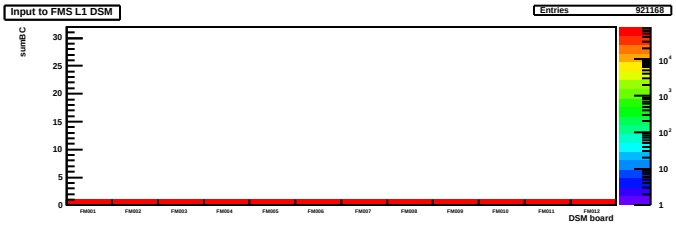

Input to FMS L0 DSM
Entries 614112
HT ID - simulated
QT board

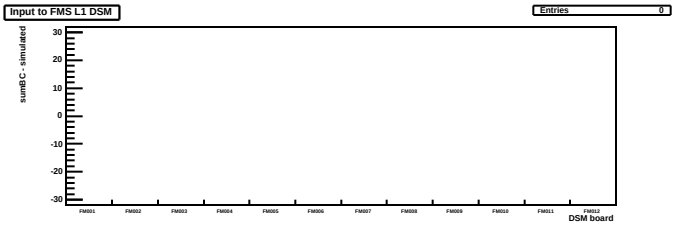

Input to FMS L1 DSM
Entries 921168
sumD
DSM board

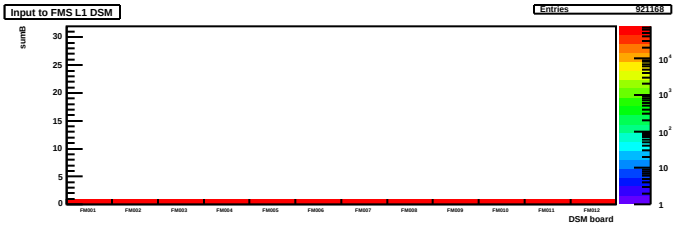

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

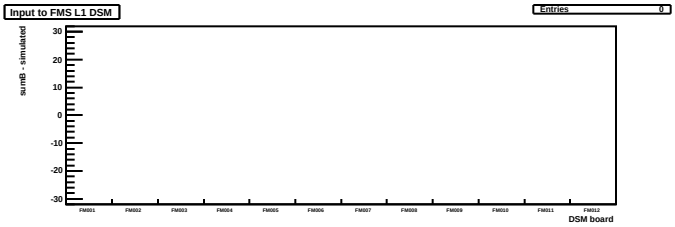

Input to FMS L1 DSM
Entries 921168
sumC
DSM board

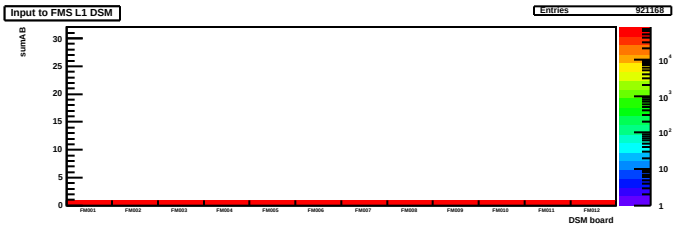

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

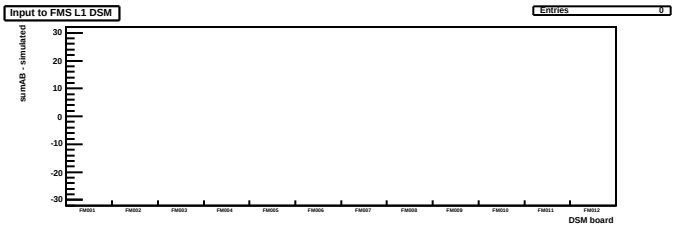

Input to FMS L1 DSM
Entries 921168
sumBC
DSM board

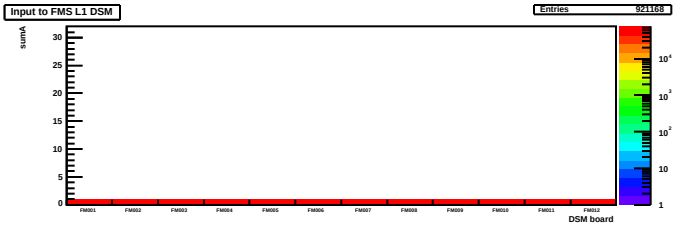

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

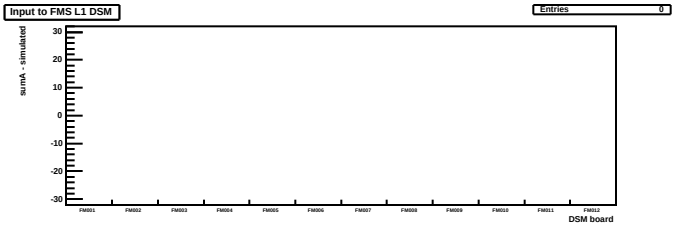

Input to FMS L1 DSM
Entries 921168
sumB
DSM board

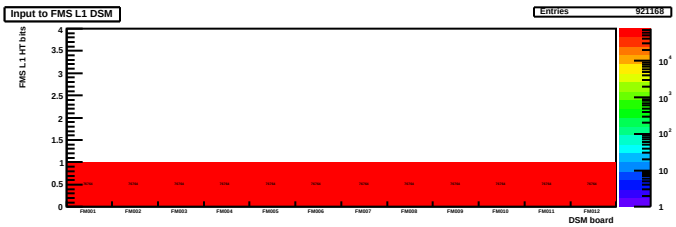

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

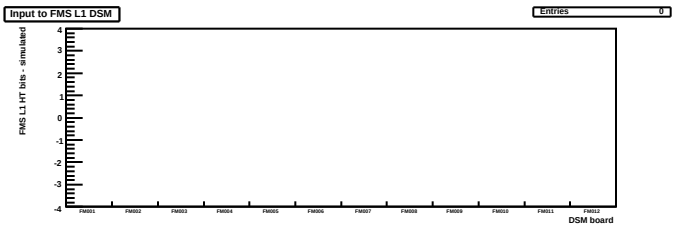

Input to FMS L1 DSM
Entries 921168
sumAB
DSM board

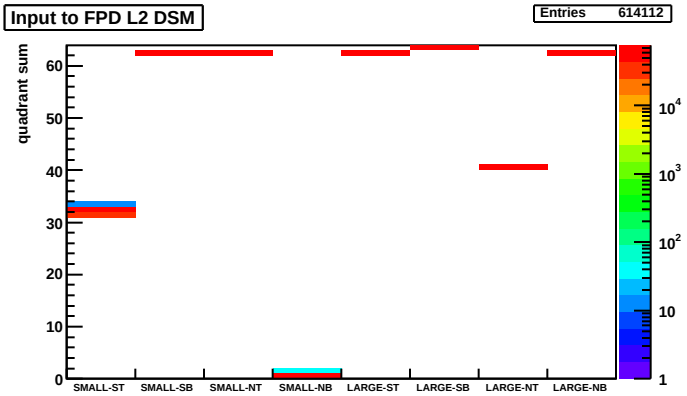

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

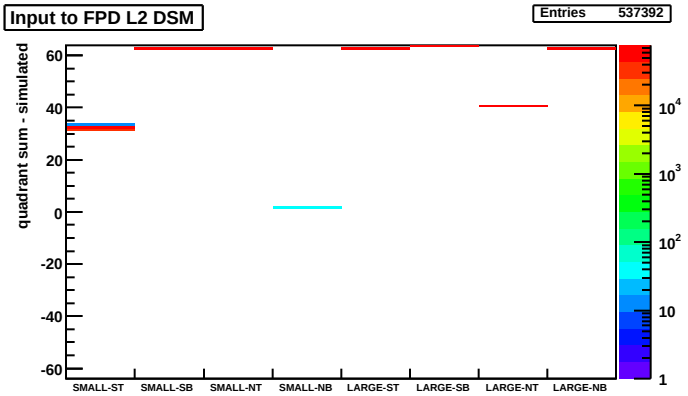

Input to FMS L1 DSM
Entries 921168
sumA
DSM board

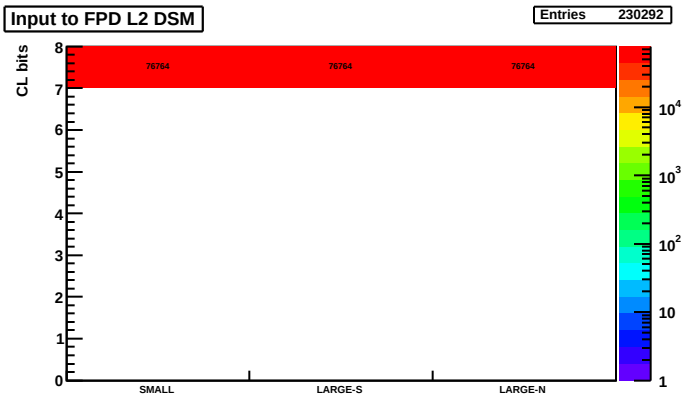

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

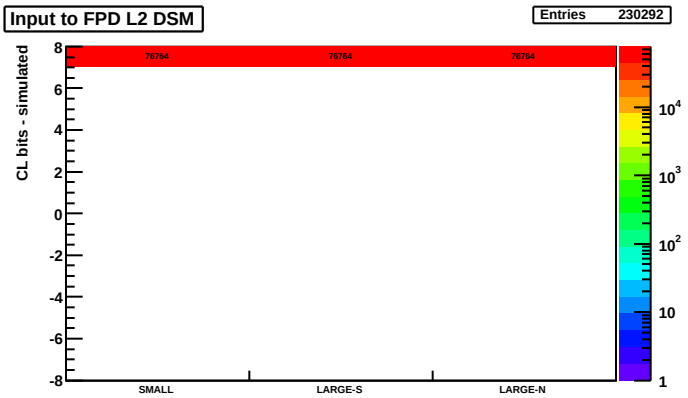

Input to FMS L1 DSM
Entries 921168
FMS L1 HT bits
DSM board

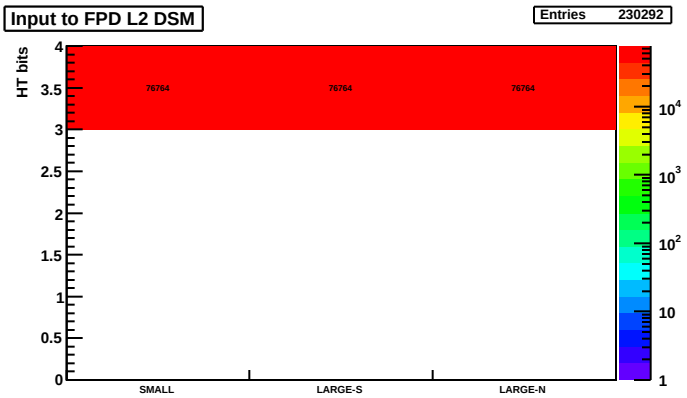

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

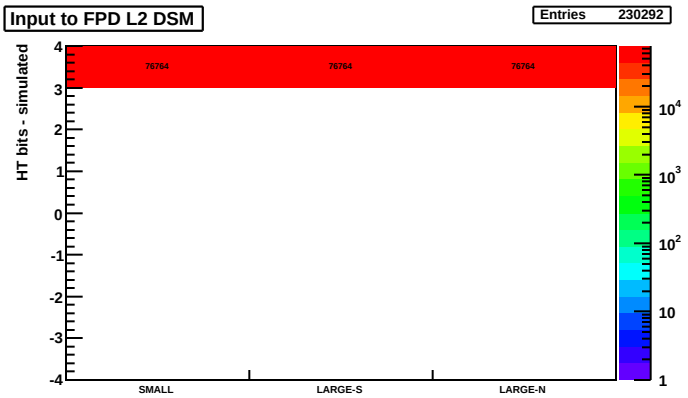

Input to FPD L2 DSM
Entries 614112
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

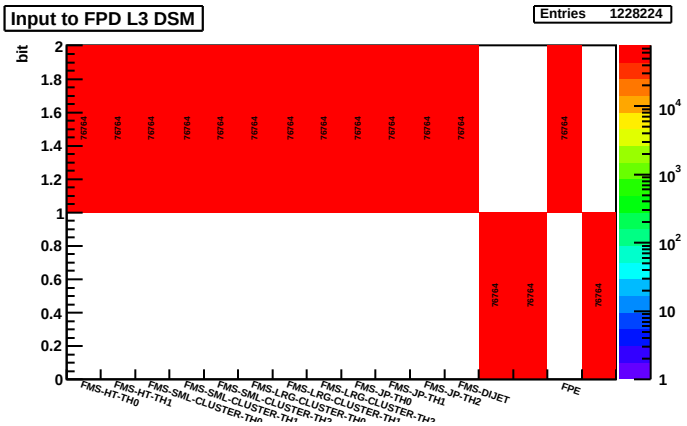

Input to FPD L2 DSM
Entries 537392
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

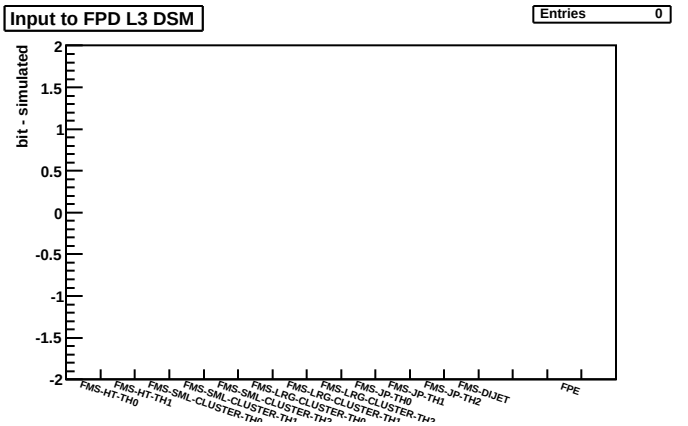

Input to FPD L2 DSM
Entries 230292
CL bits
76764
SMALL
LARGE-S
LARGE-N

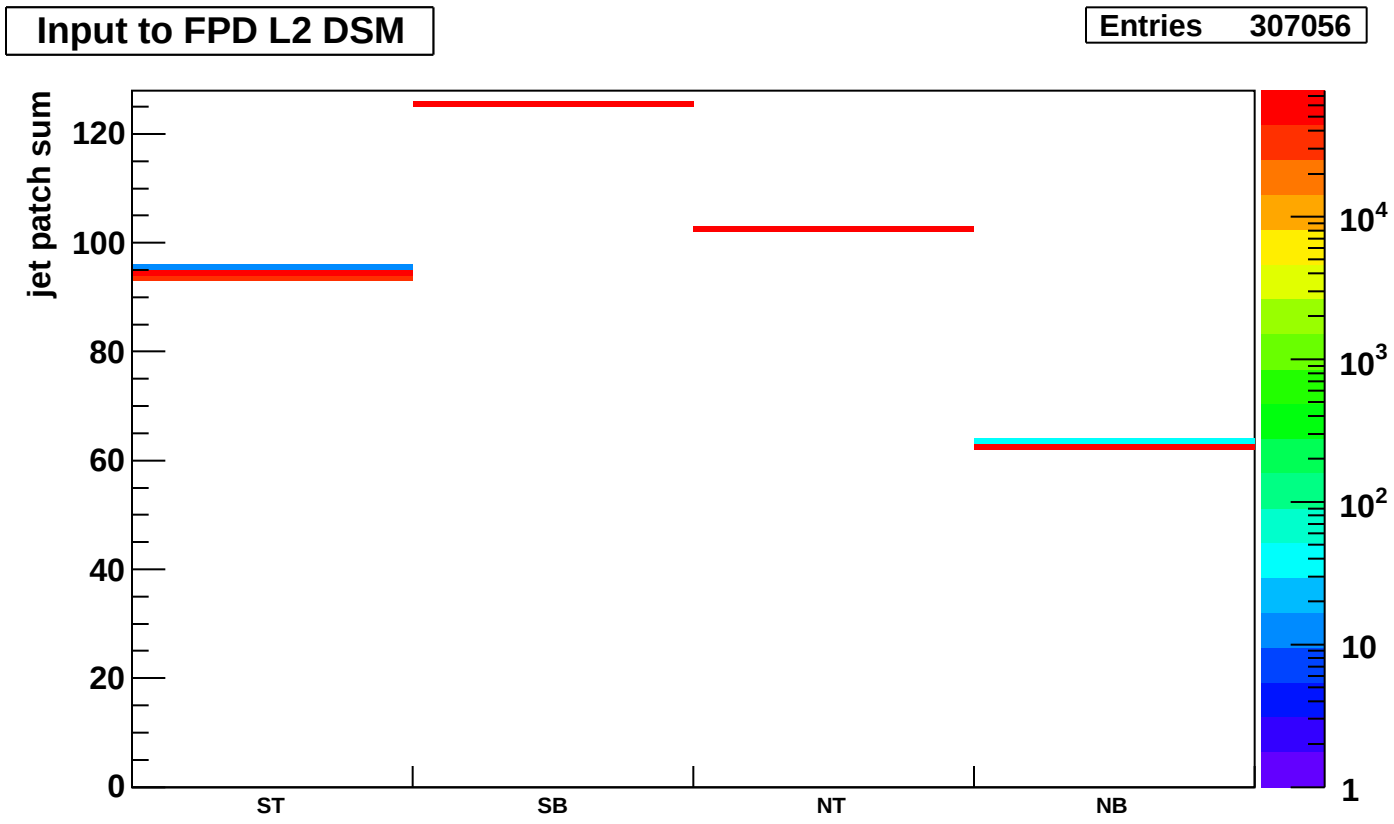

Input to FPD L2 DSM
Entries 230292
CL bits - simulated
76764
SMALL
LARGE-S
LARGE-N

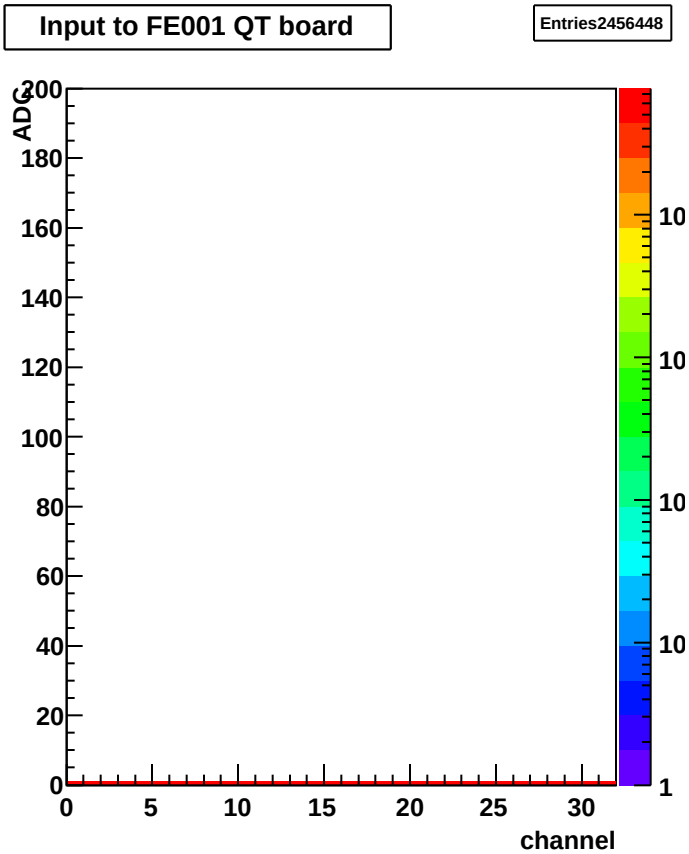

Input to FPD L2 DSM
Entries 230292
HT bits
76764
SMALL
LARGE-S
LARGE-N

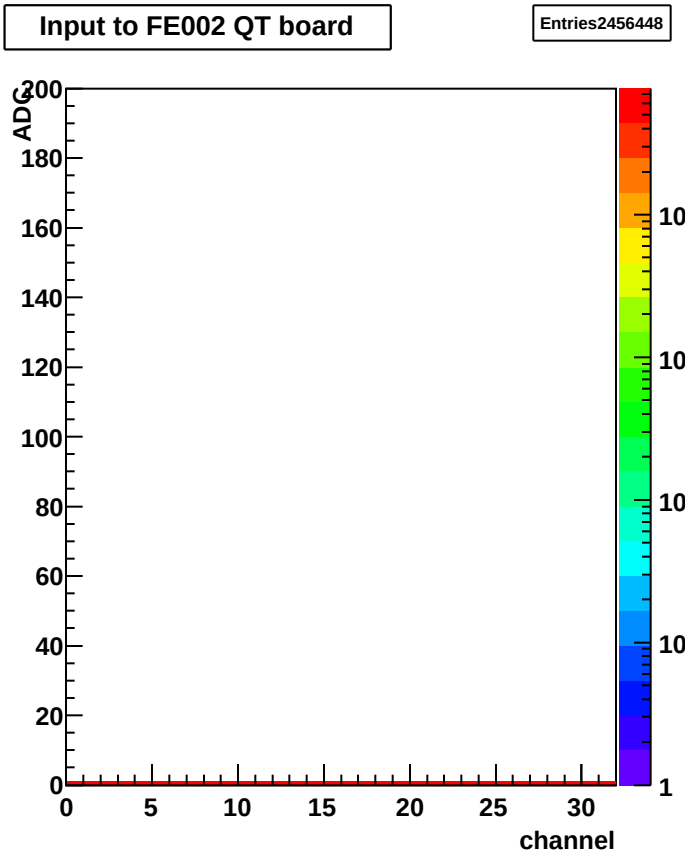

Input to FPD L2 DSM
Entries 230292
HT bits - simulated
76764
SMALL
LARGE-S
LARGE-N

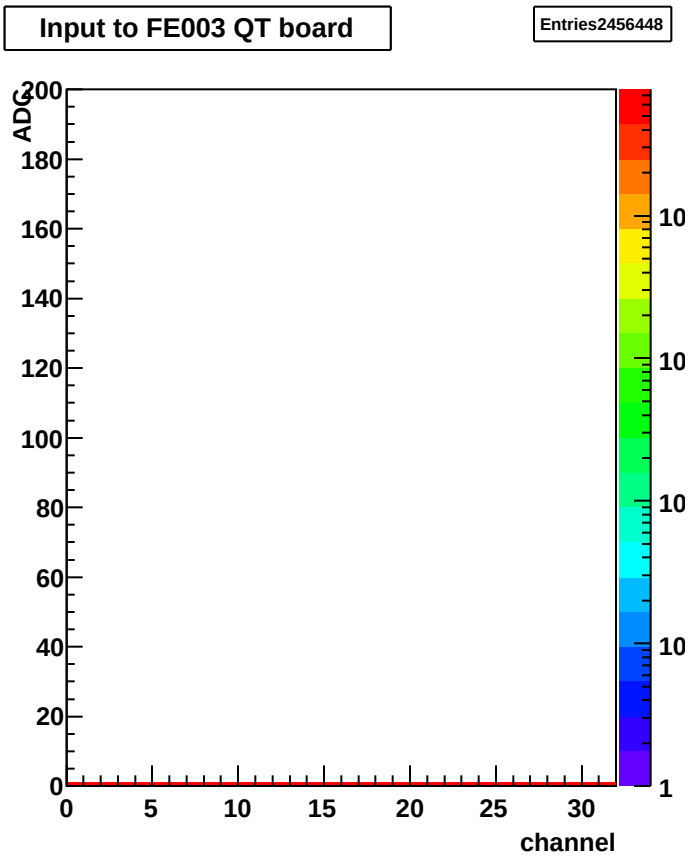

Input to FPD L3 DSM
Entries 1228224
bit
76764
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

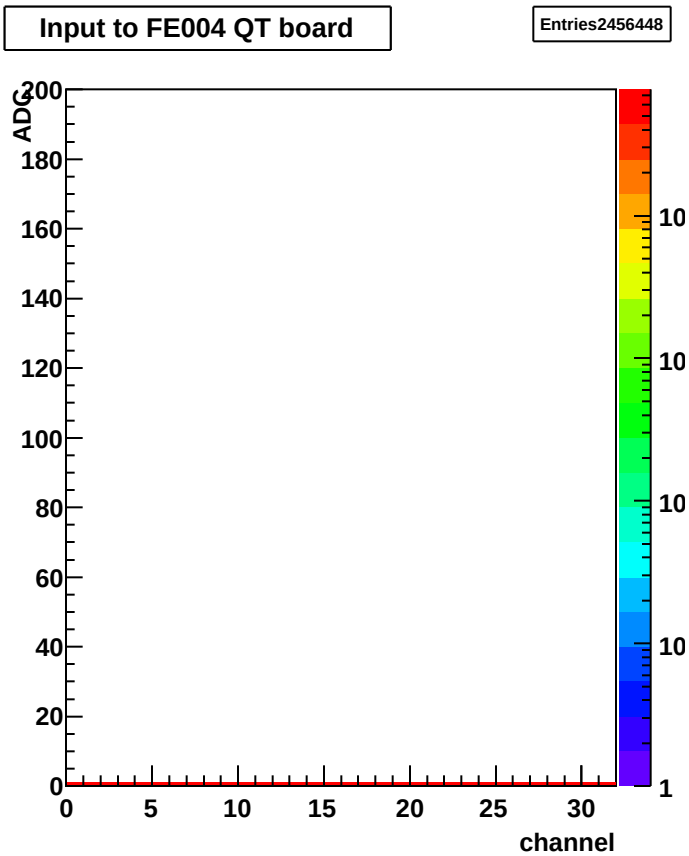

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

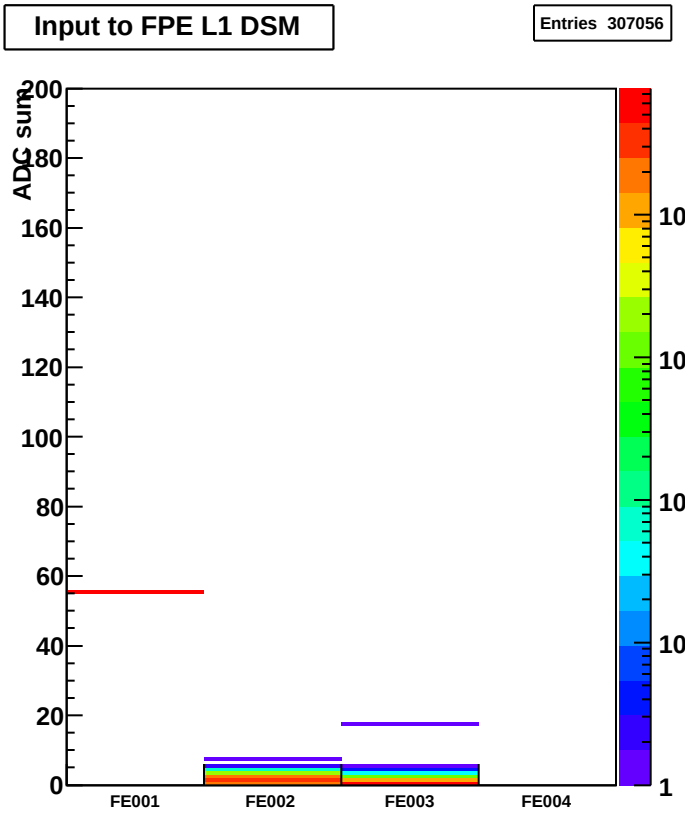

Input to FPD L2 DSM
Entries 307056
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^4
10^3
10^2
10
1

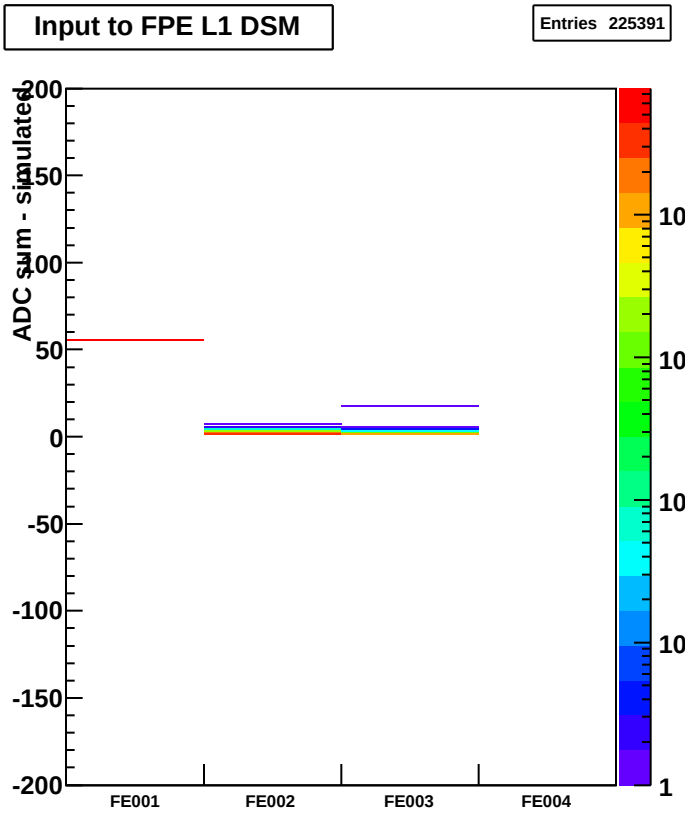

Input to FE001 QT board
Entries2456448
ADC
channel

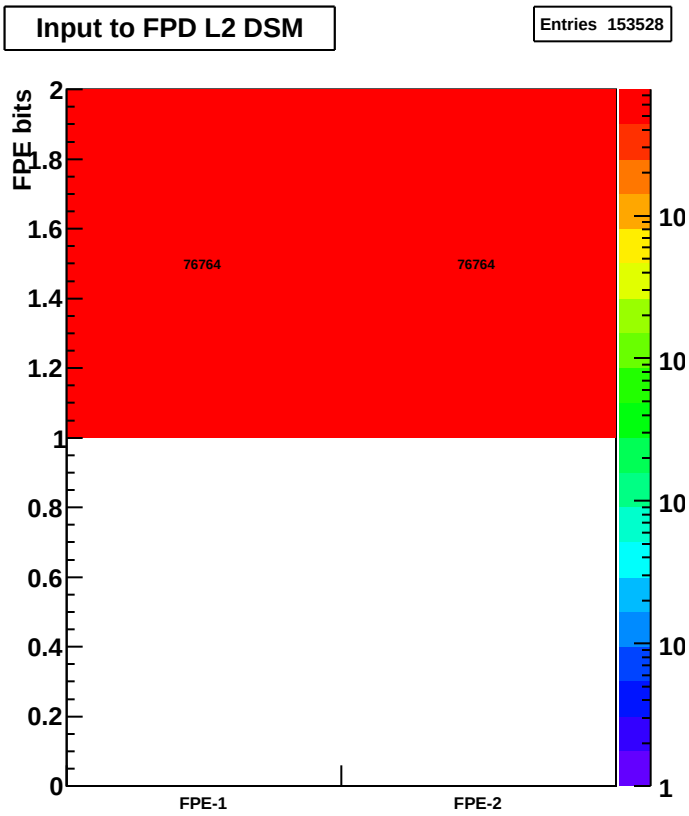

Input to FE002 QT board
Entries2456448
ADC
channel

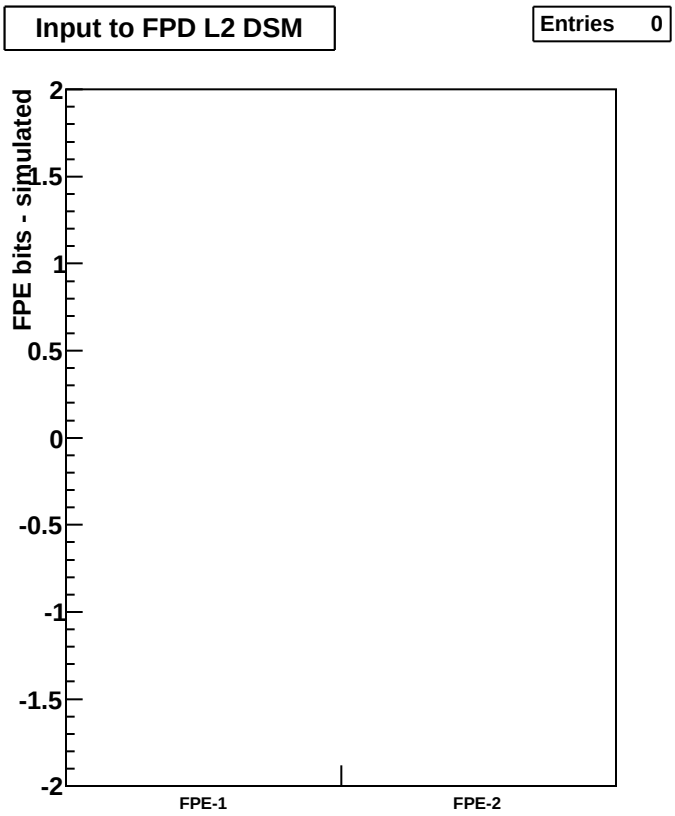

Input to FE003 QT board
Entries2456448
ADC
channel


Input to FE004 QT board
Entries2456448
ADC
channel


Input to FPE L1 DSM
Entries 307056
ADC sum
200
180
160
140
120
100
80
60
40
20
0
FE001
FE002
FE003
FE004
10
10
10
10
1


Input to FPE L1 DSM
Entries 225391
ADC sum - simulated
200
150
100
50
0
-50
-100
-150
-200
FE001
FE002
FE003
FE004
10
10
10
10
1


Input to FPD L2 DSM
Entries 153528
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
76764
76764
FPE-1
FPE-2
10
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