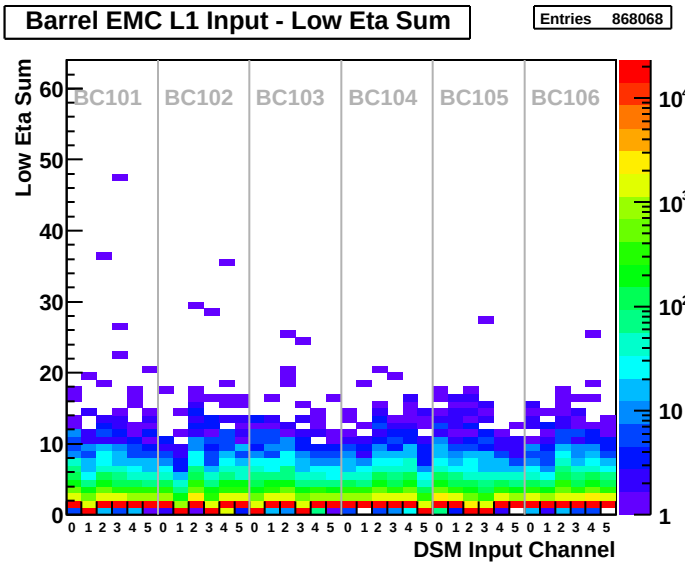
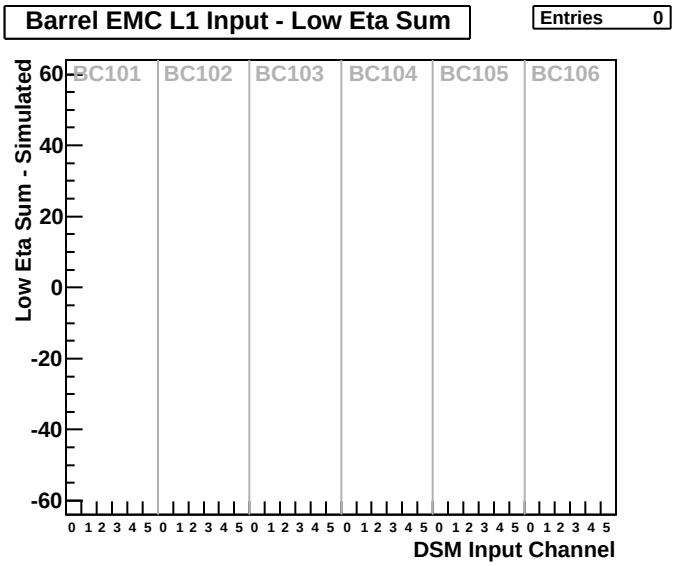
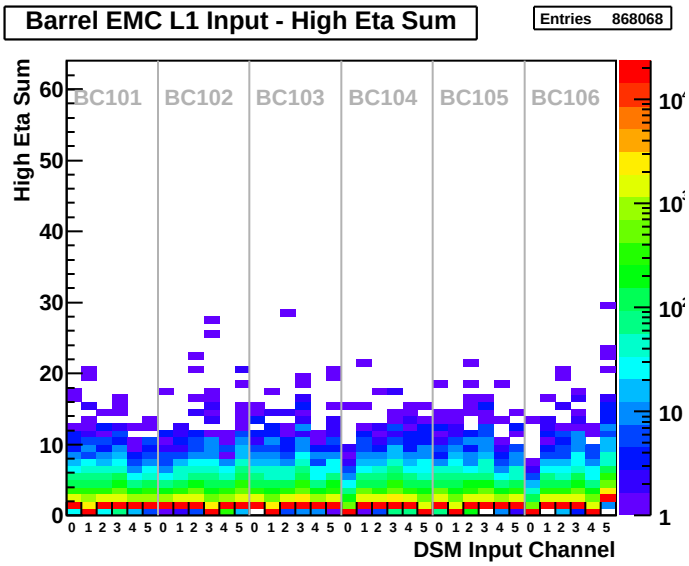
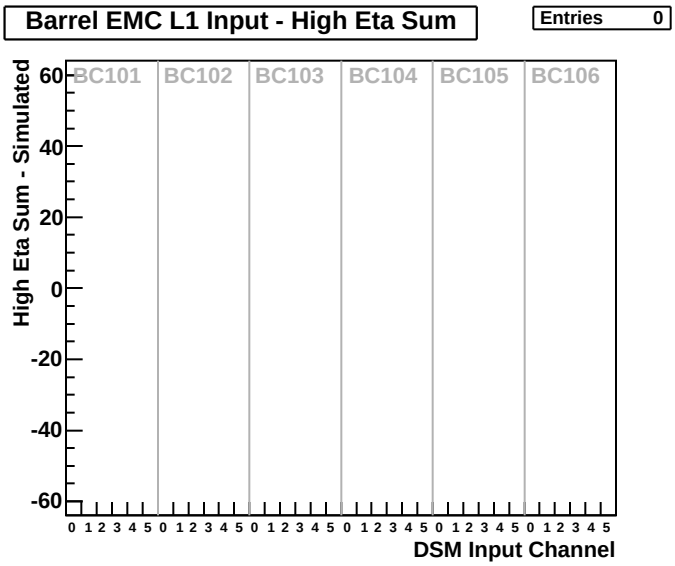
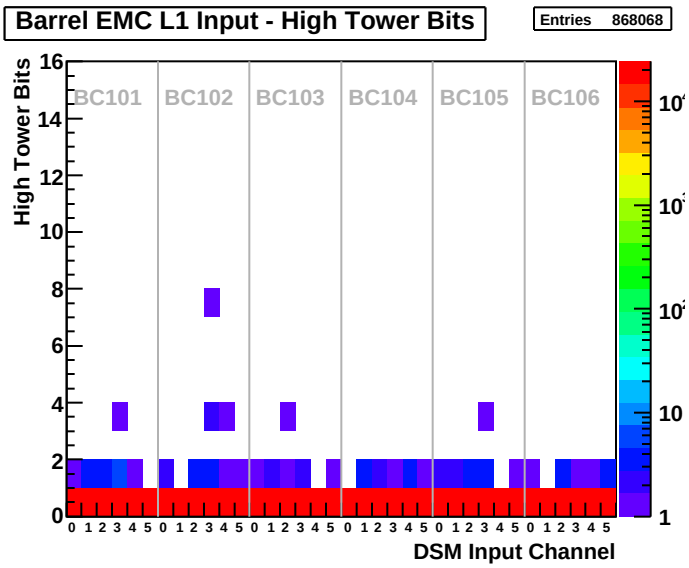
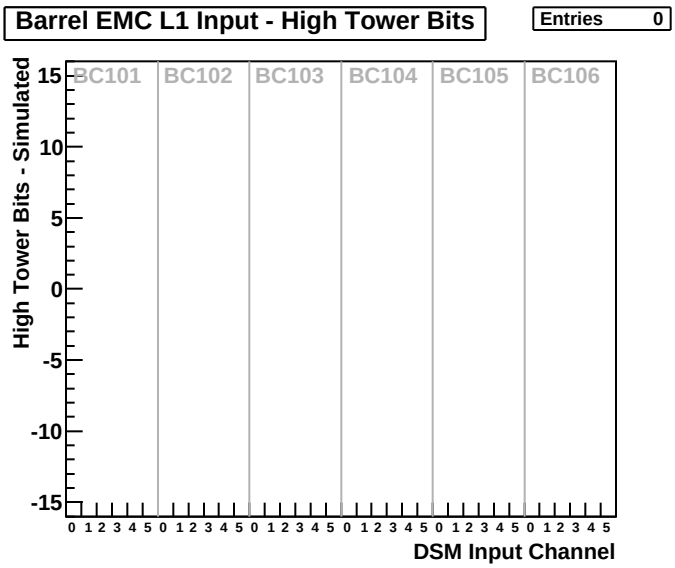

Barrel EMC L1 Input - Low Eta Sum
Entries 868068
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

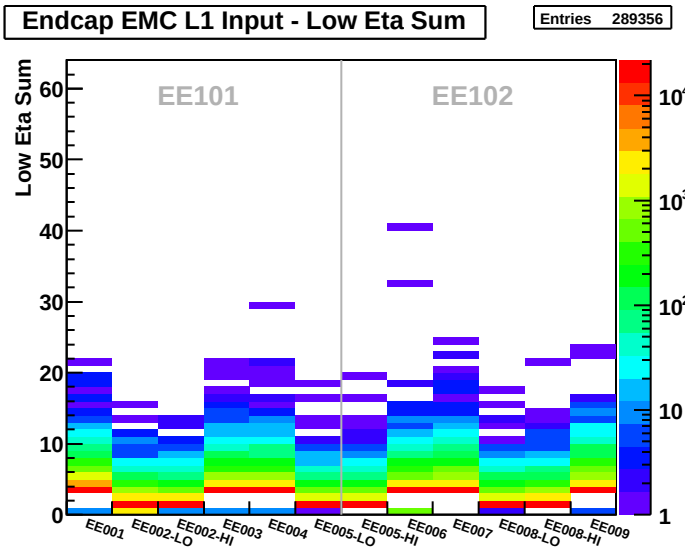

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

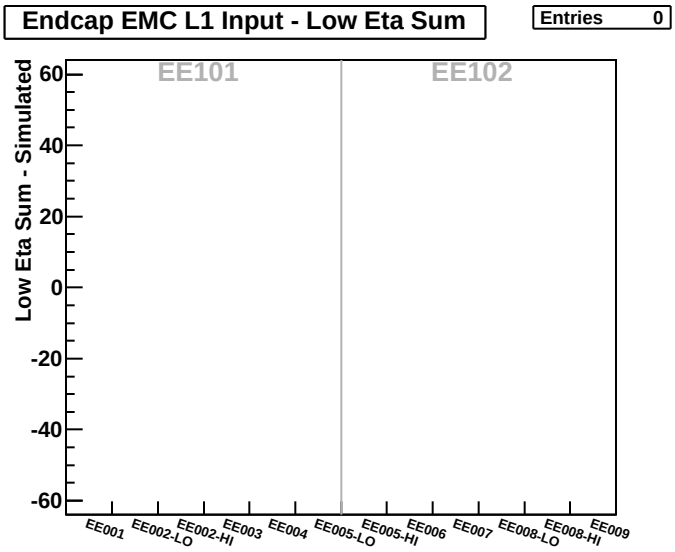

Barrel EMC L1 Input - High Eta Sum
Entries 868068
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

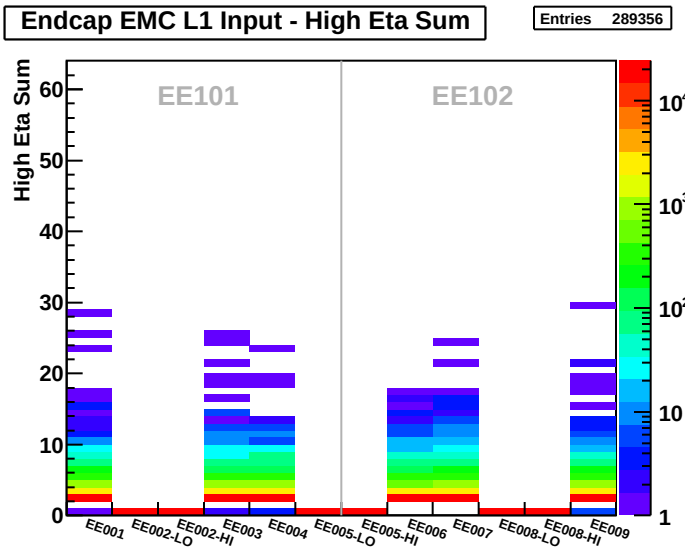

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

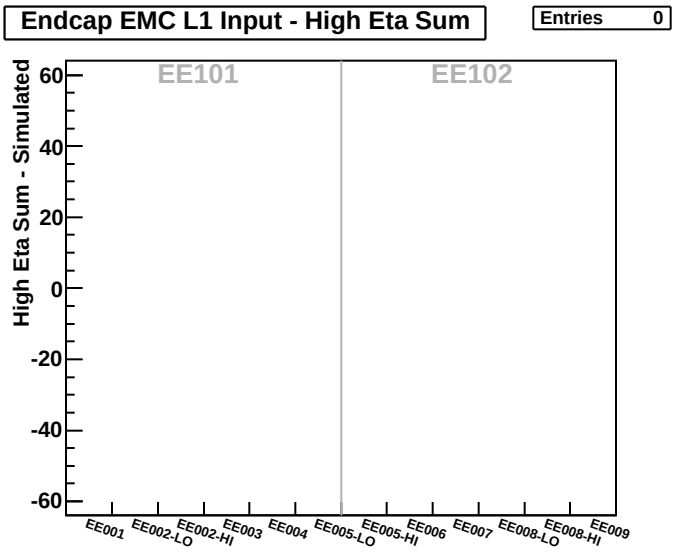

Barrel EMC L1 Input - High Tower Bits
Entries 868068
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

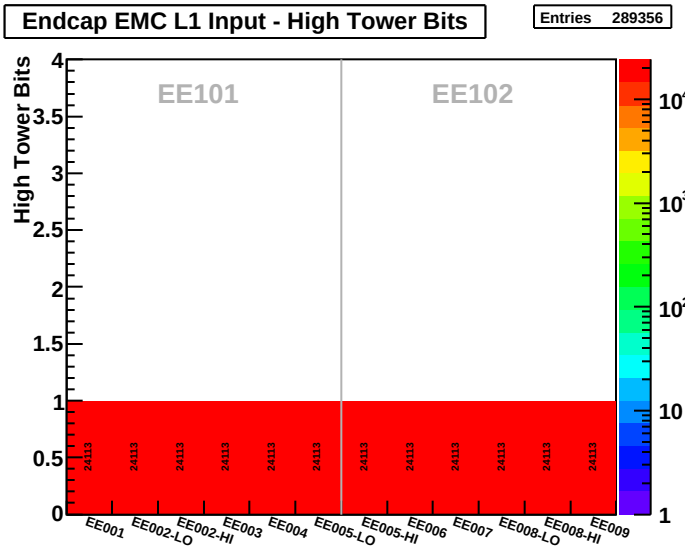

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

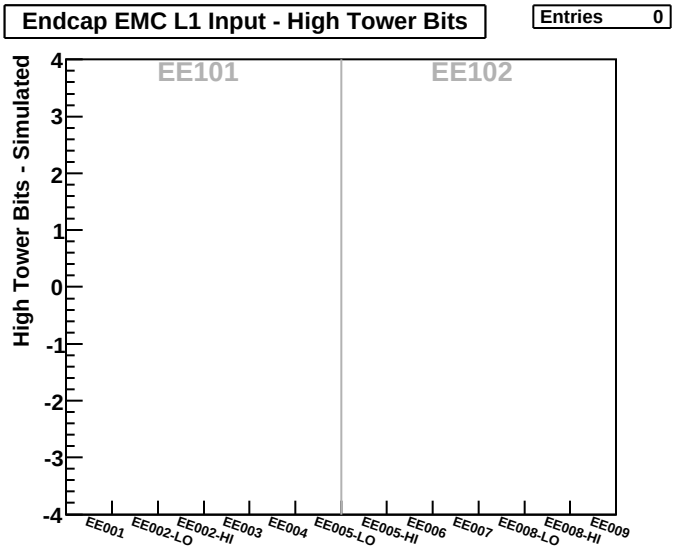

Endcap EMC L1 Input - Low Eta Sum
Entries 289356
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

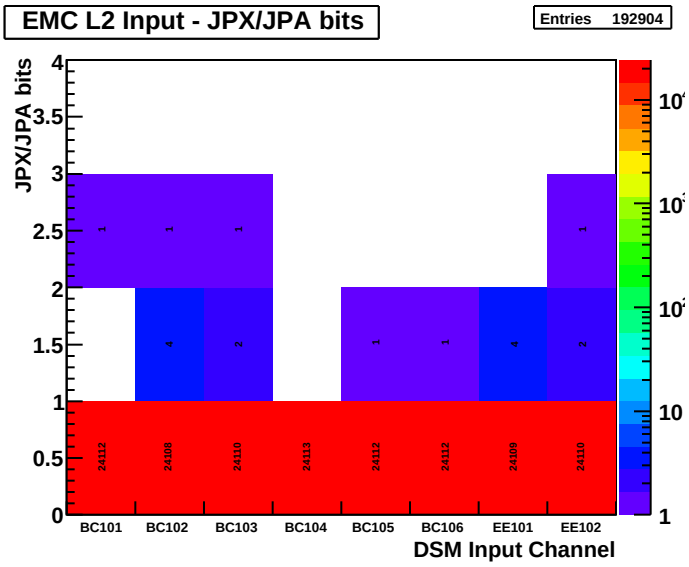

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

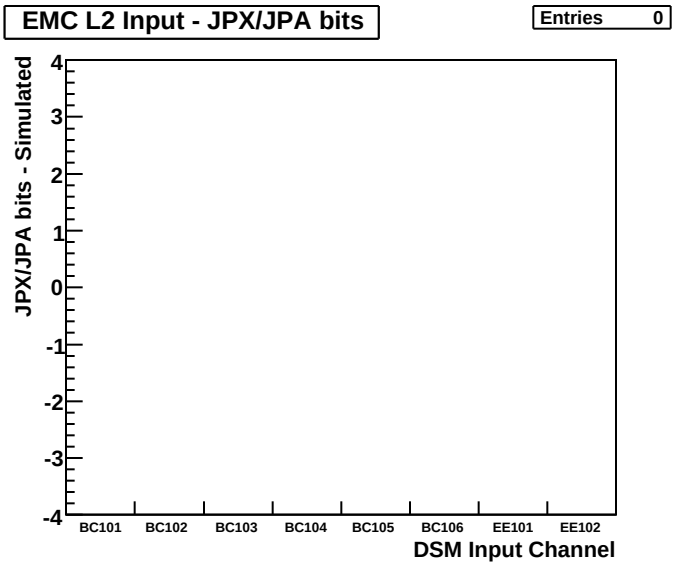

Endcap EMC L1 Input - High Eta Sum
Entries 289356
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

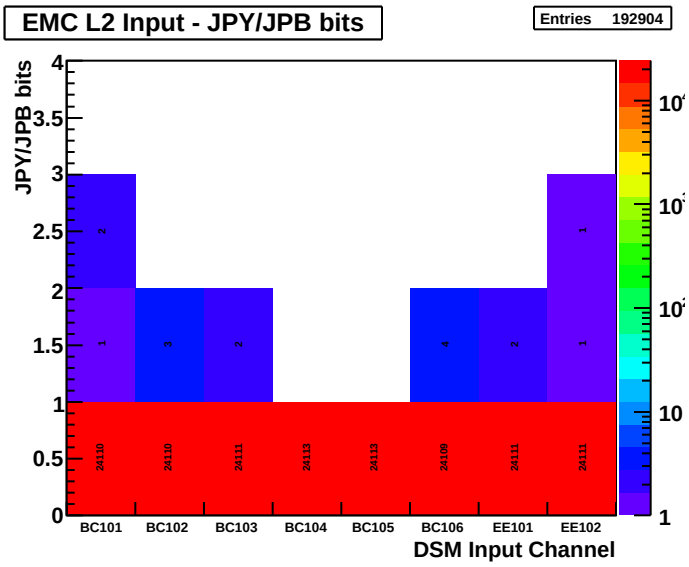

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

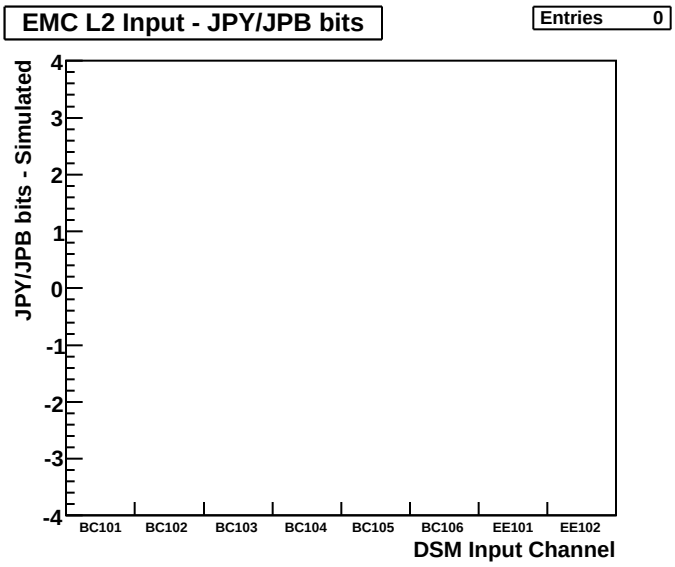

Endcap EMC L1 Input - High Tower Bits
Entries 289356
High Tower Bits
EE101
EE102
24113
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

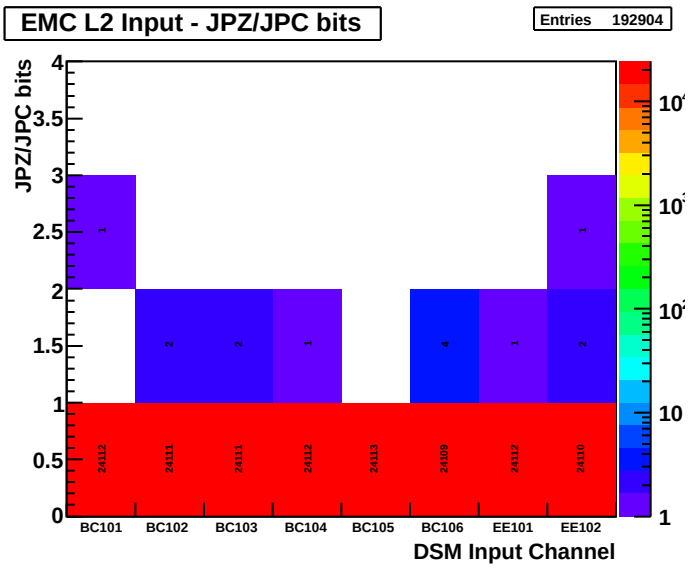

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

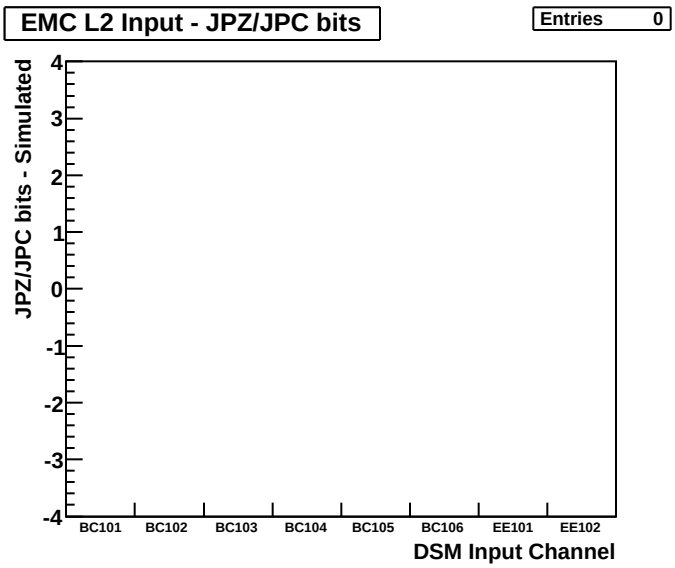

EMC L2 Input - JPX/JPA bits
Entries 192904
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

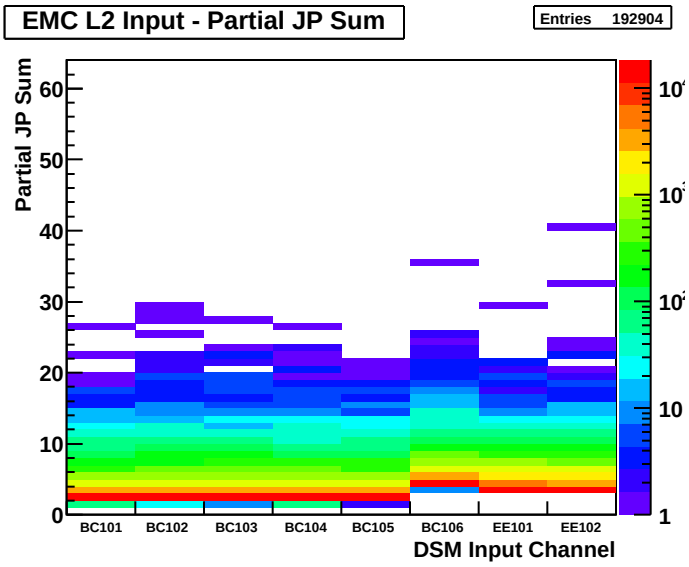

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

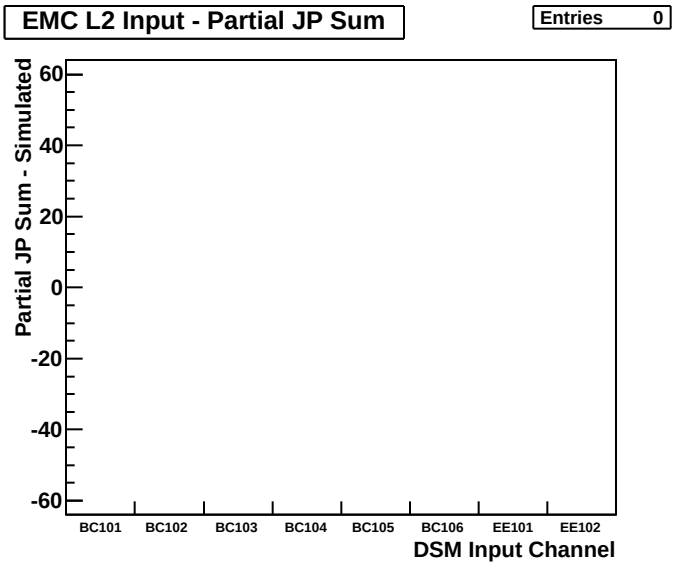

EMC L2 Input - JPY/JPB bits
Entries 192904
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

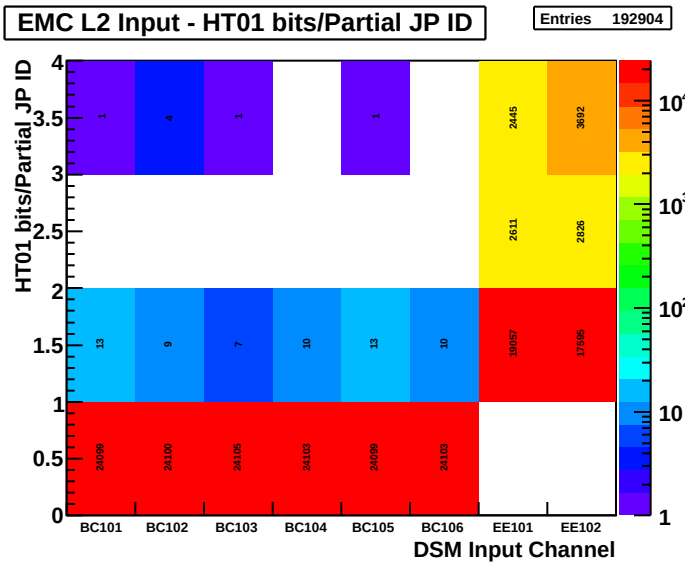

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

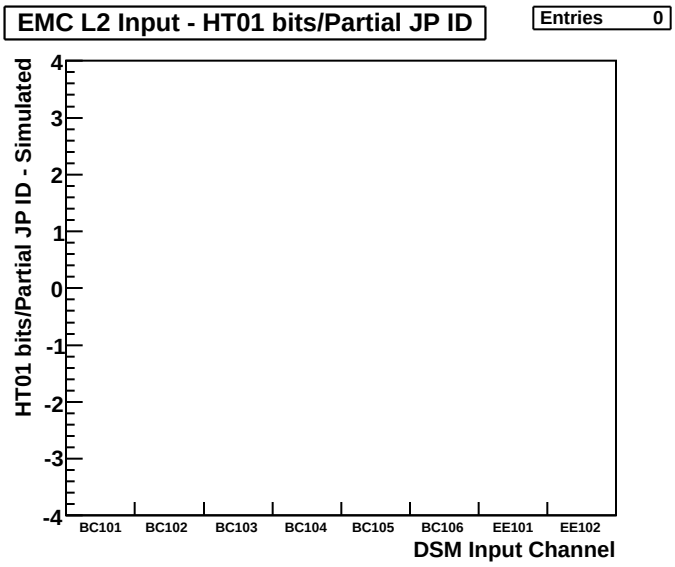

EMC L2 Input - JPZ/JPC bits
Entries 192904
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

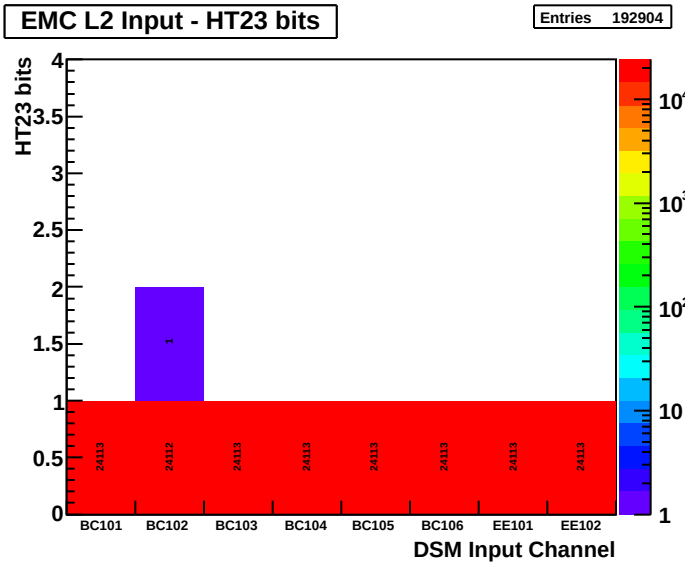

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

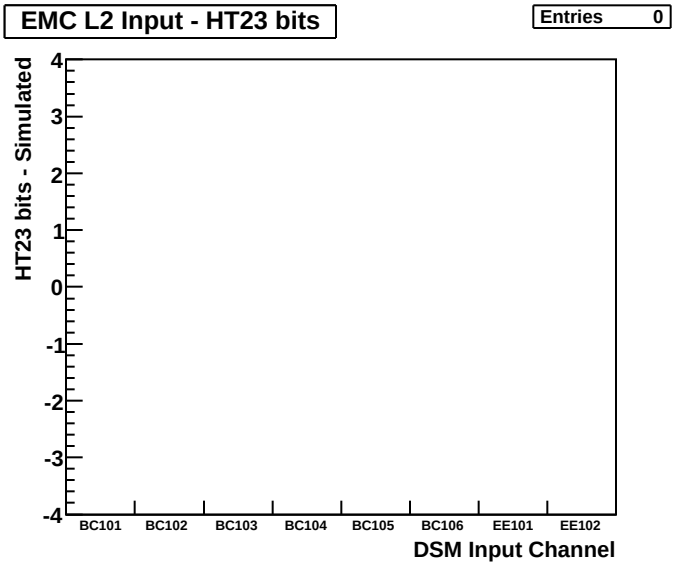

EMC L2 Input - Partial JP Sum
Entries 192904
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

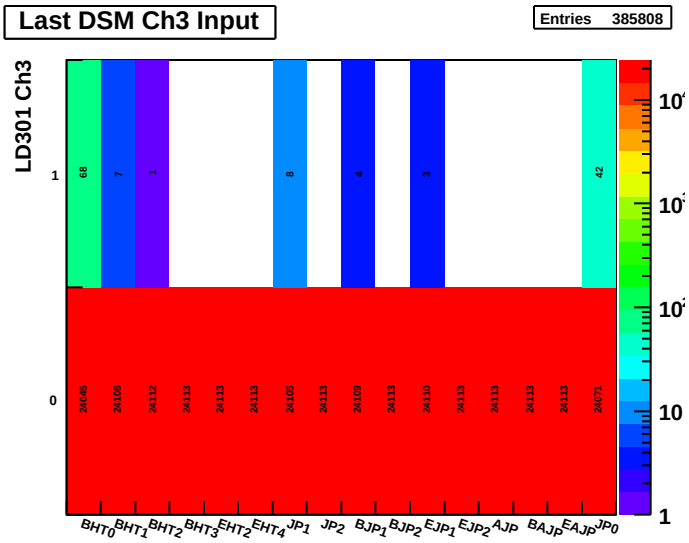

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

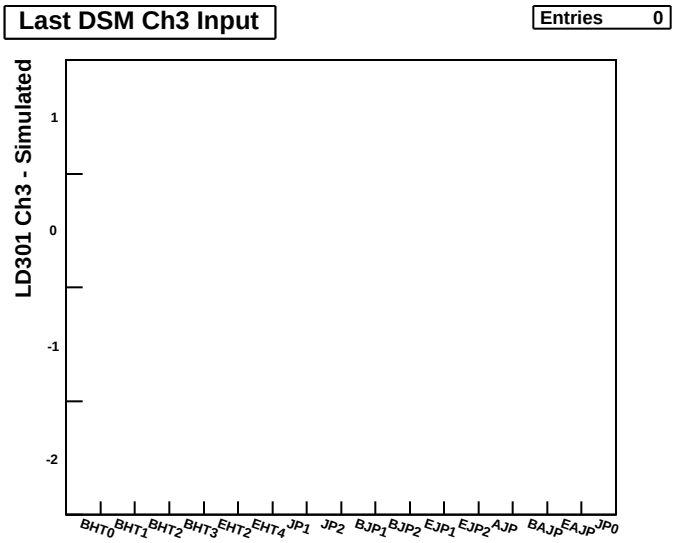

EMC L2 Input - HT01 bits/Partial JP ID
Entries 192904
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

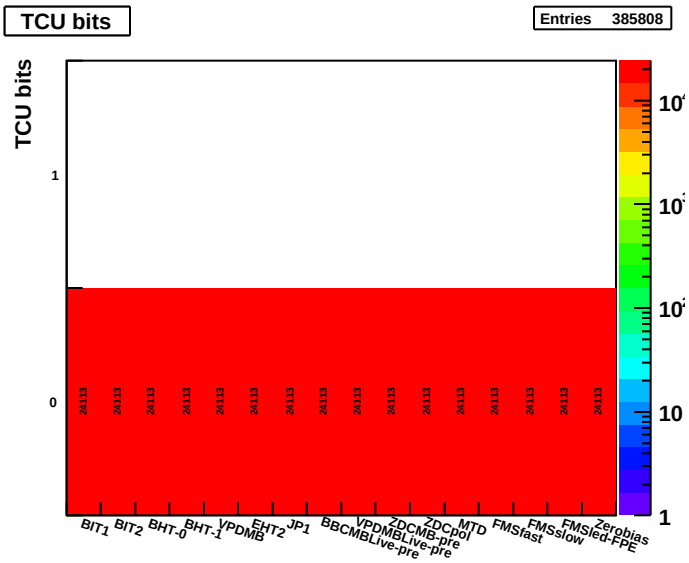

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

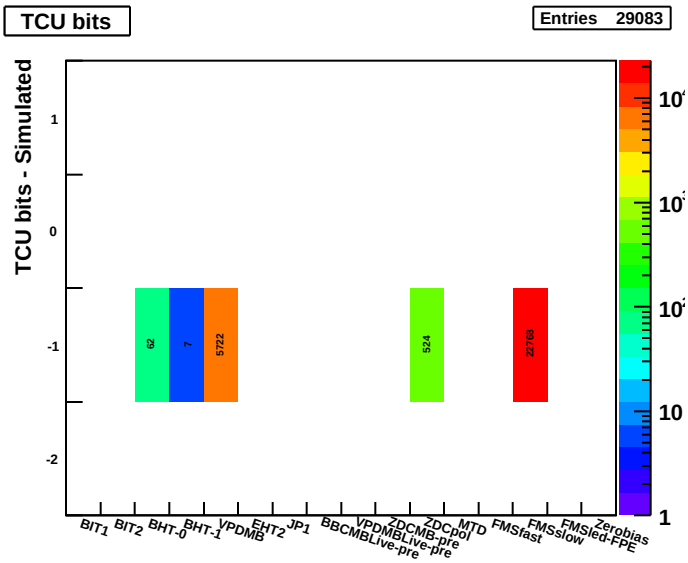

EMC L2 Input - HT23 bits
Entries 192904
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

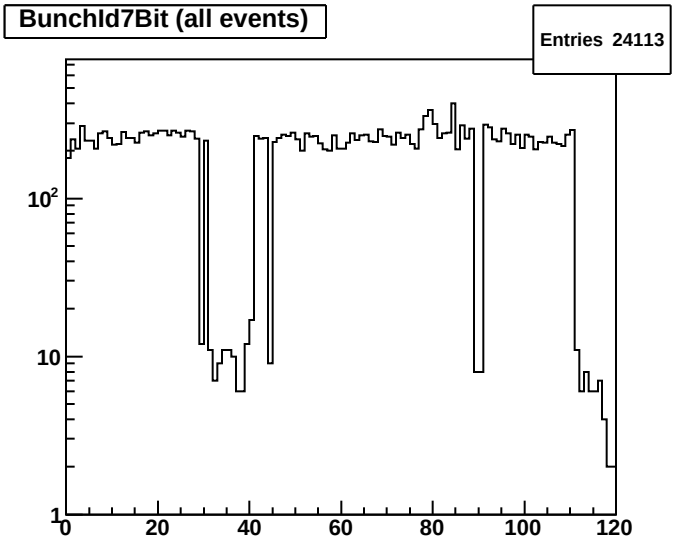

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

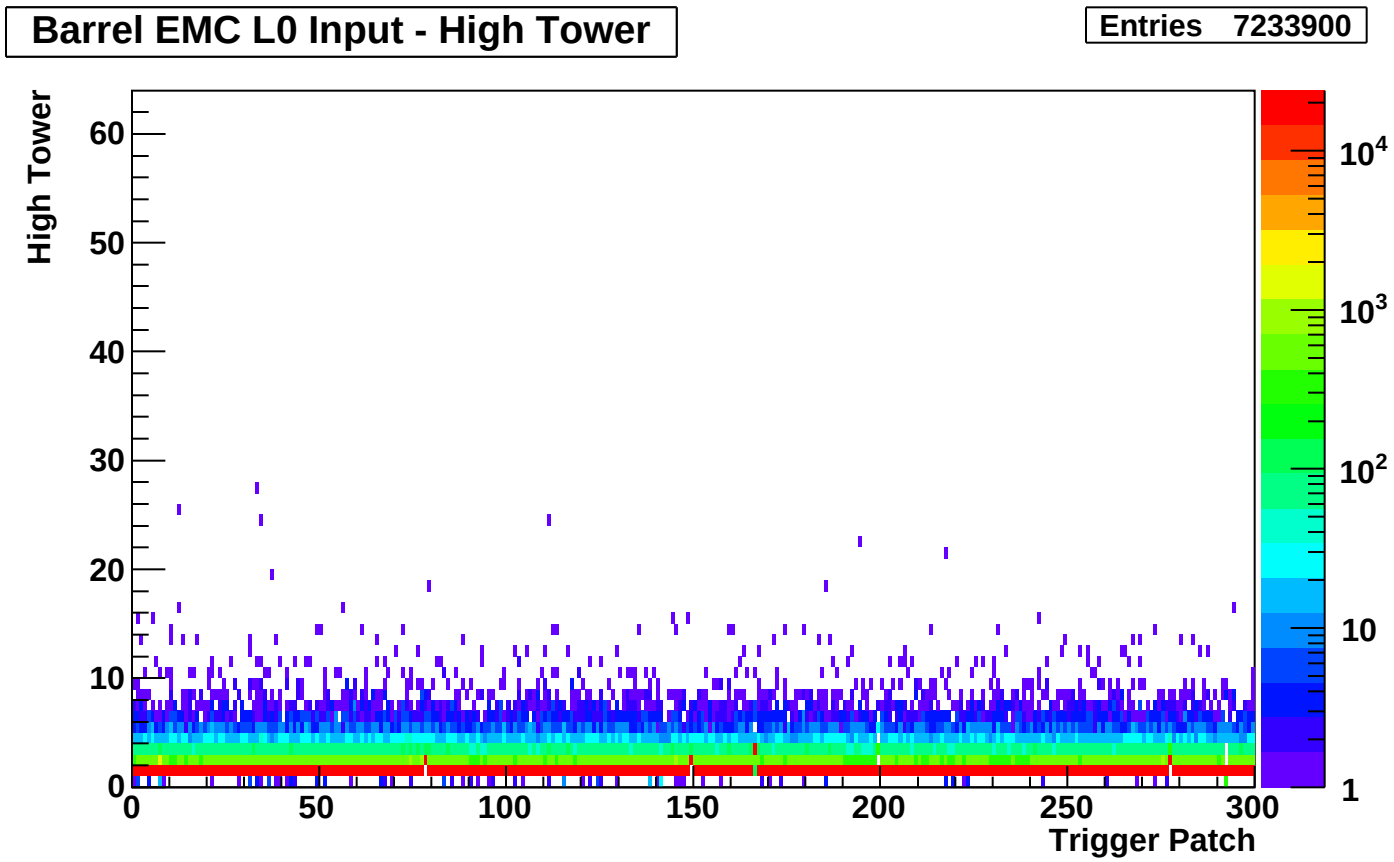

Last DSM Ch3 Input
Entries 385808
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

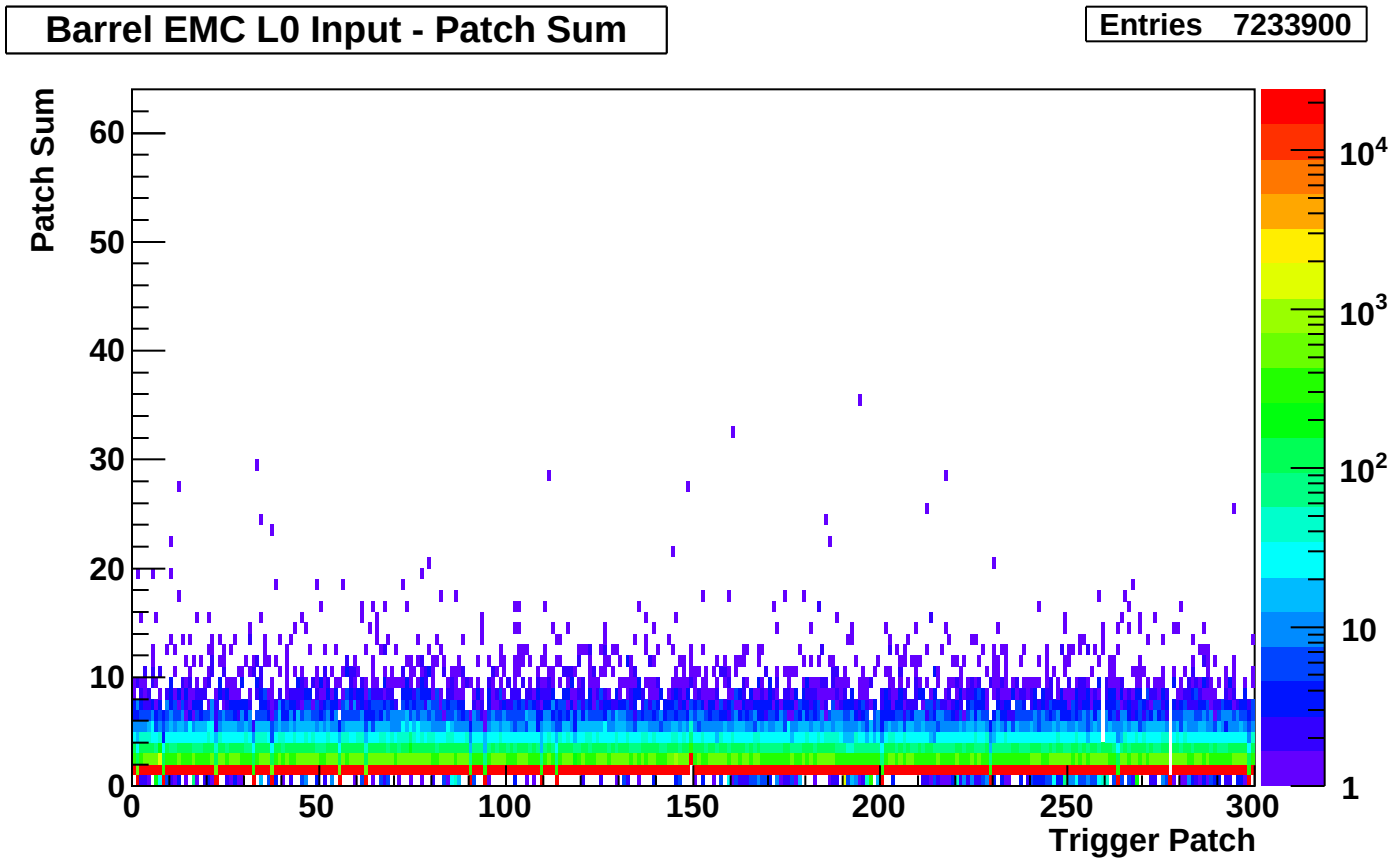

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

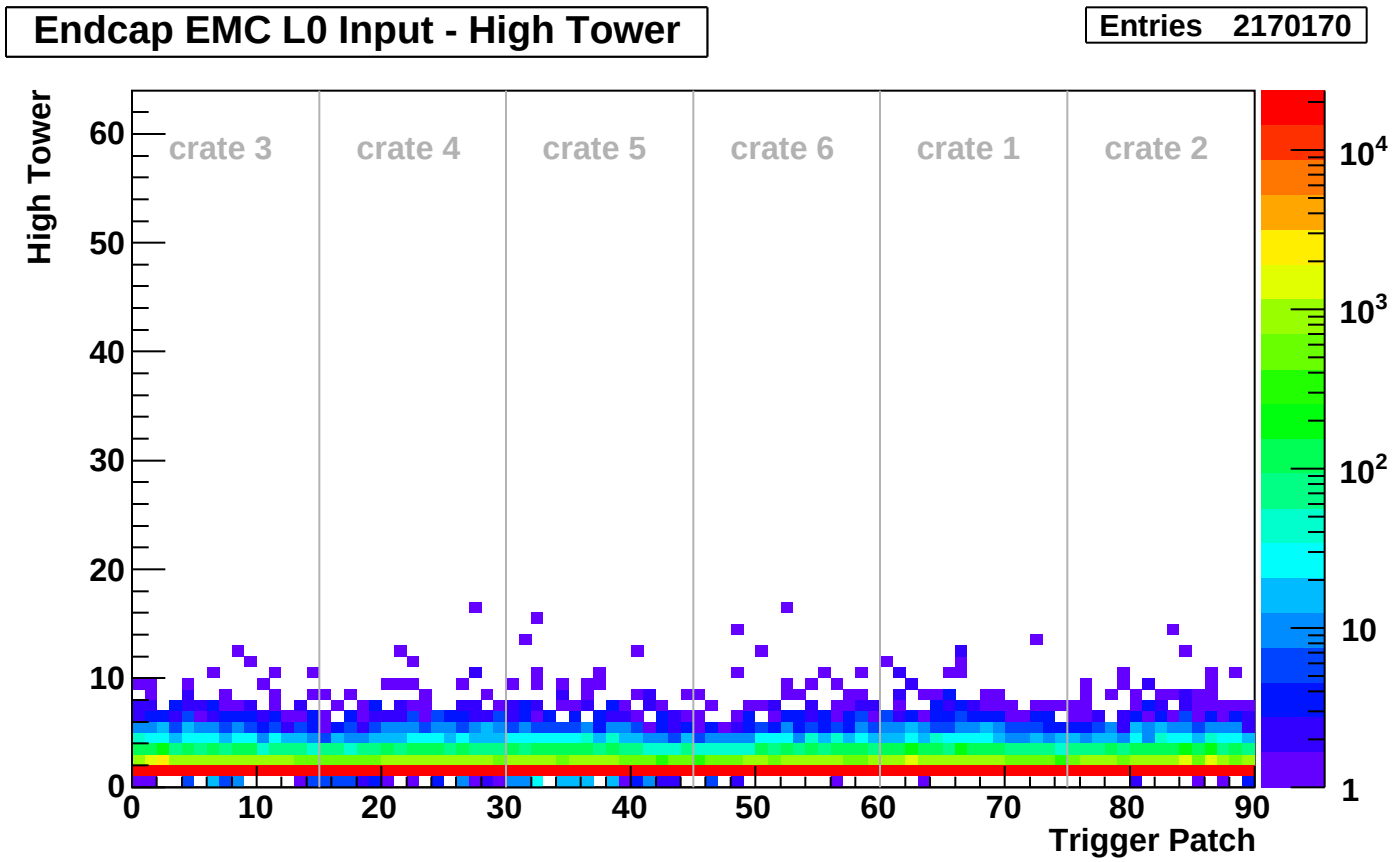

TCU bits
Entries 385808
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

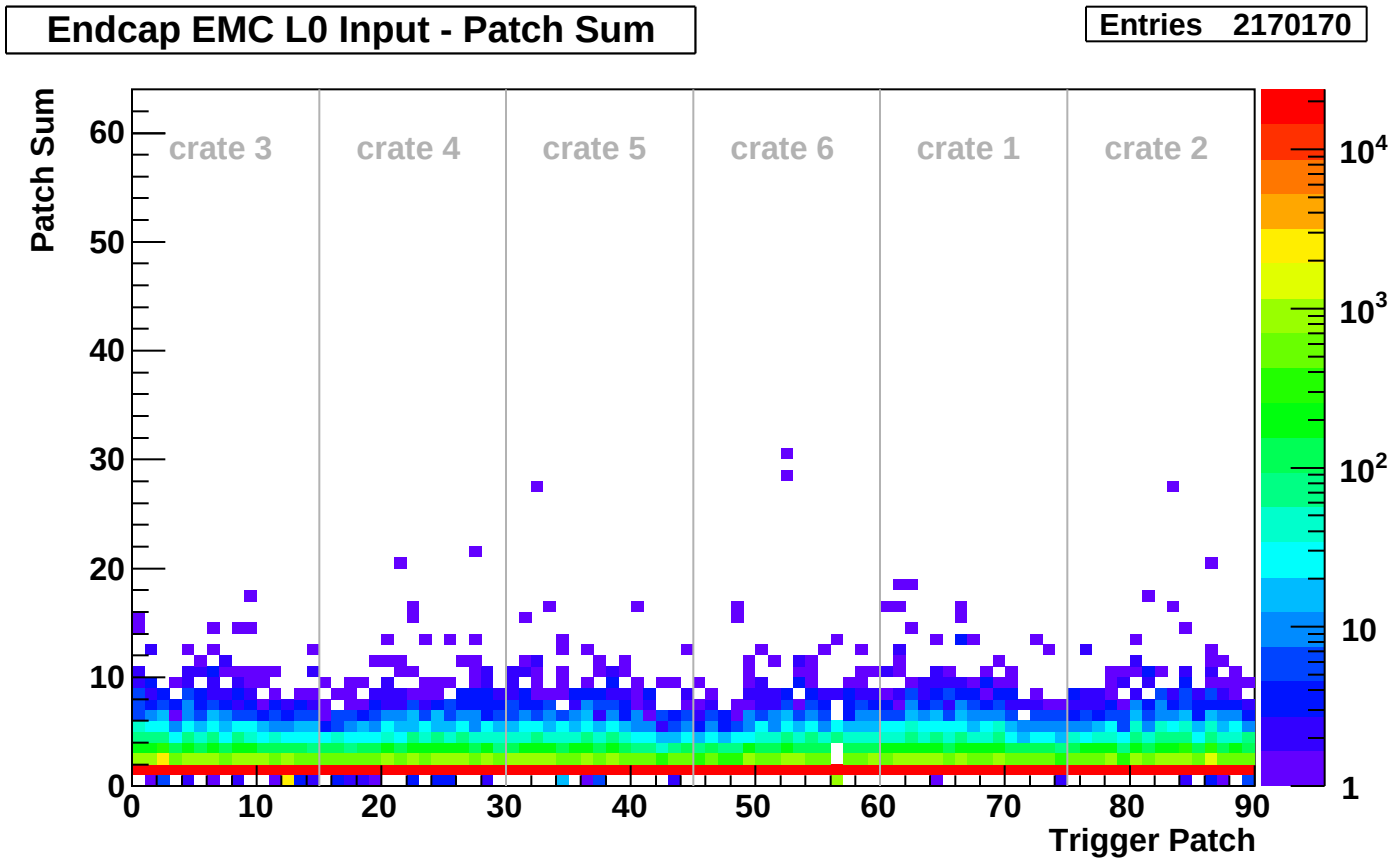

TCU bits
Entries 29083
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

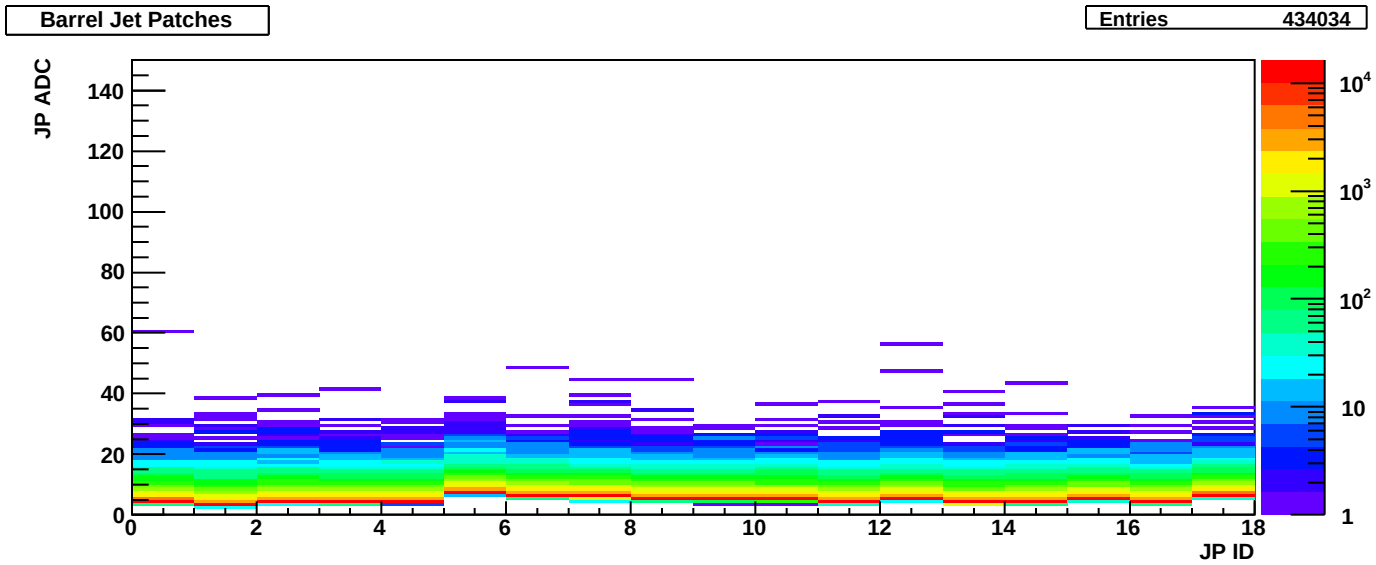

BunchId7Bit (all events)
Entries 24113

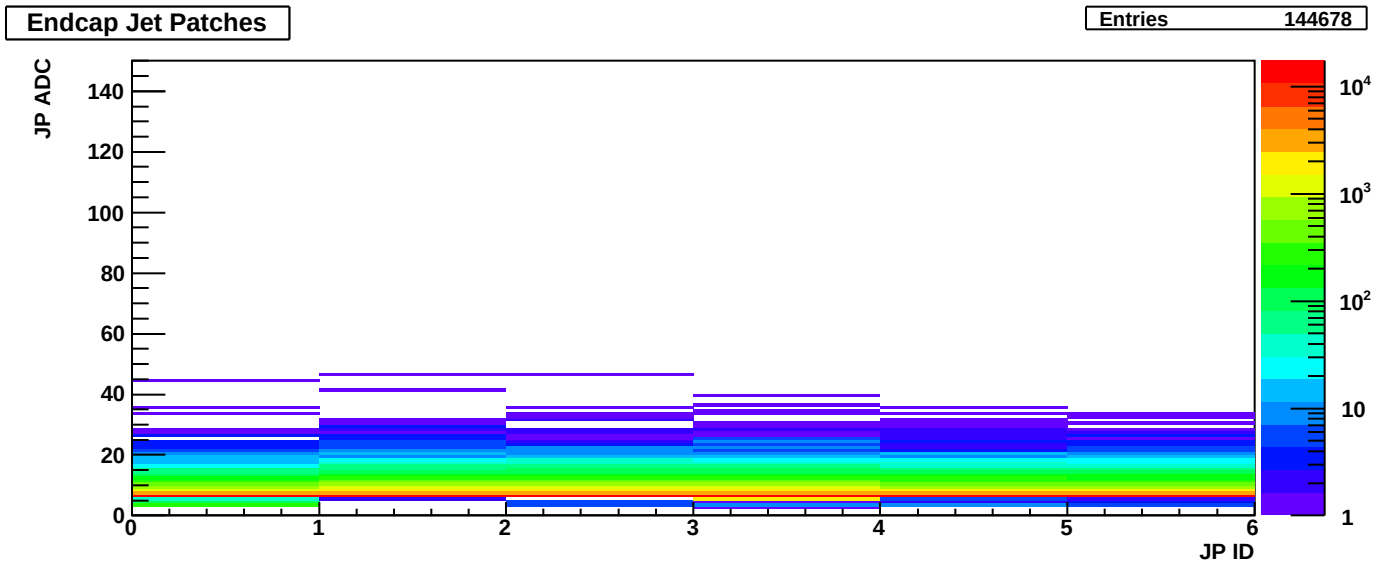

Barrel EMC L0 Input - High Tower
Entries 7233900
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

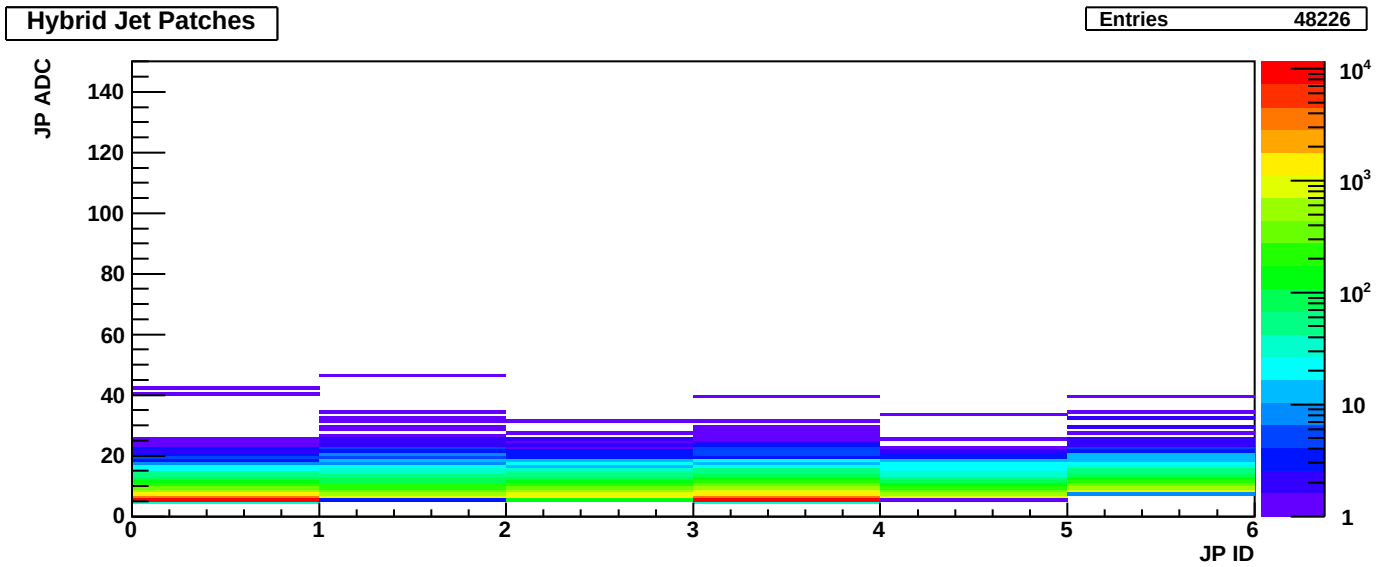

Barrel EMC L0 Input - Patch Sum
Entries 7233900
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

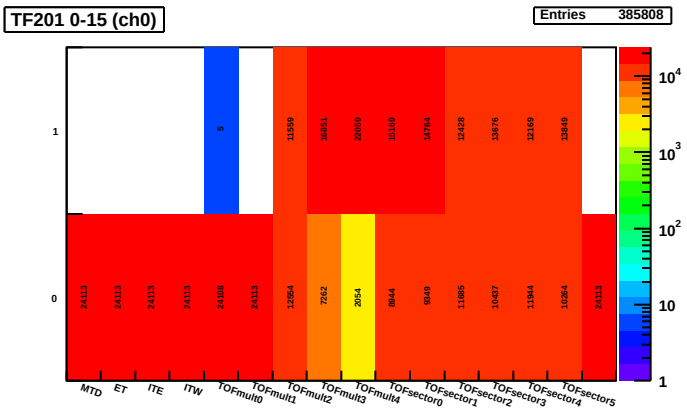

Endcap EMC L0 Input - High Tower
Entries 2170170
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

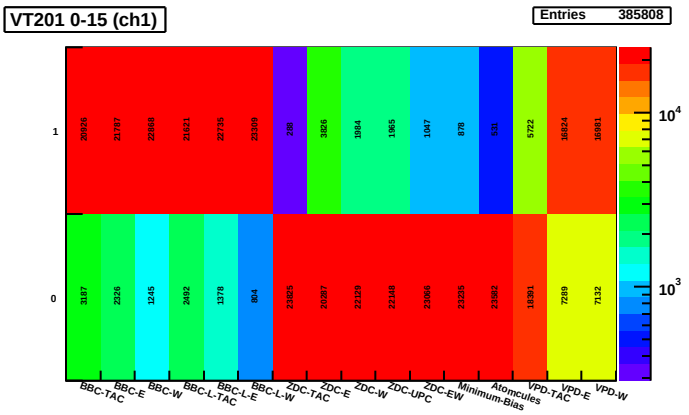

Endcap EMC L0 Input - Patch Sum
Entries 2170170
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

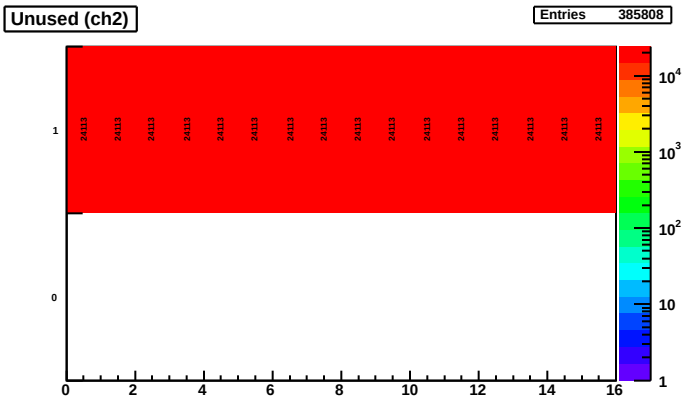

Barrel Jet Patches
Entries 434034
JP ADC
JP ID

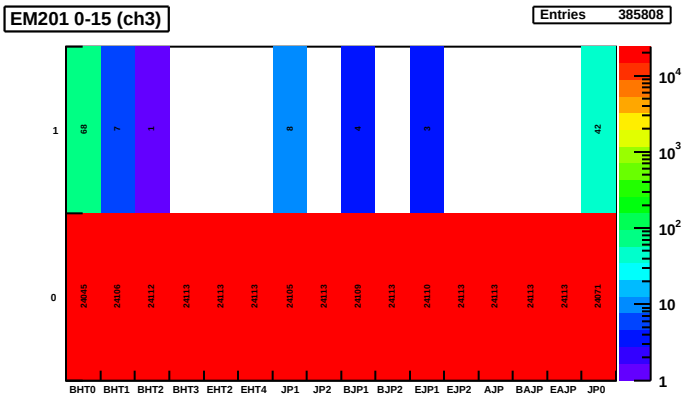

Endcap Jet Patches
Entries 144678
JP ADC
JP ID

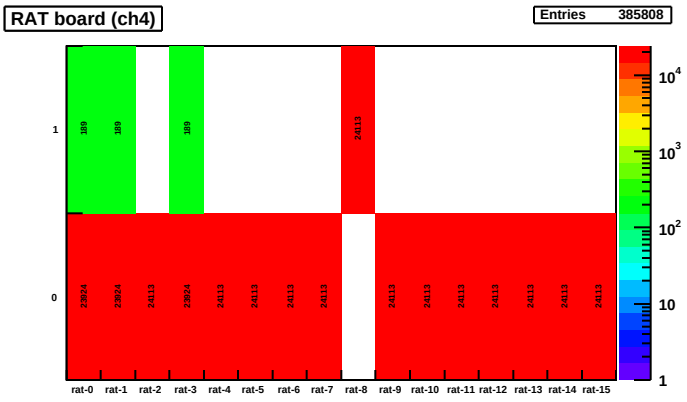

Hybrid Jet Patches
Entries 48226
JP ADC
JP ID

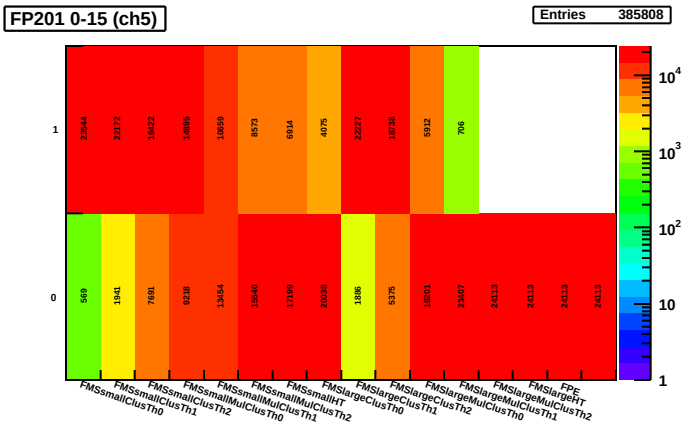

TF201 0-15 (ch0)
Entries 385808
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

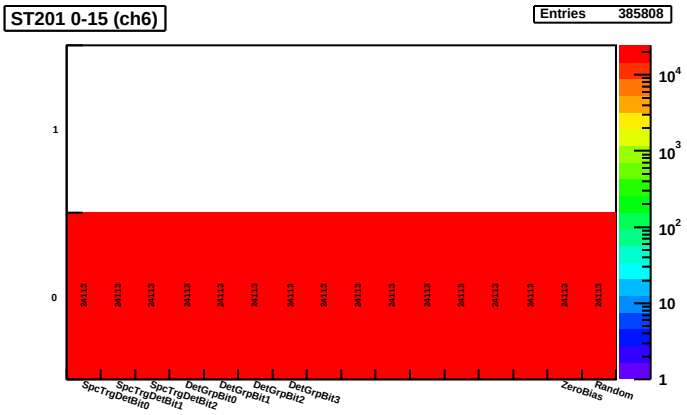

VT201 0-15 (ch1)
Entries 385808
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

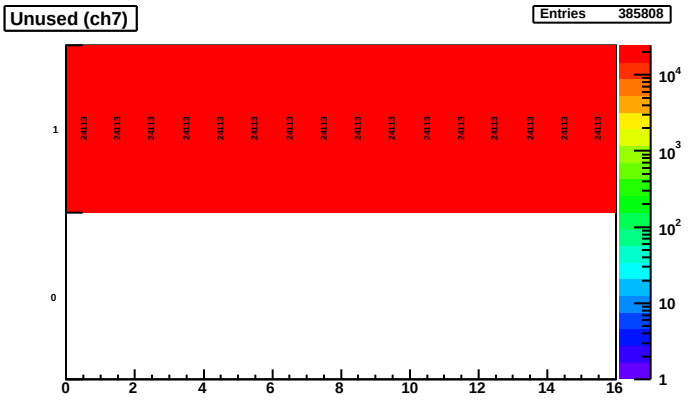

Unused (ch2)
Entries 385808

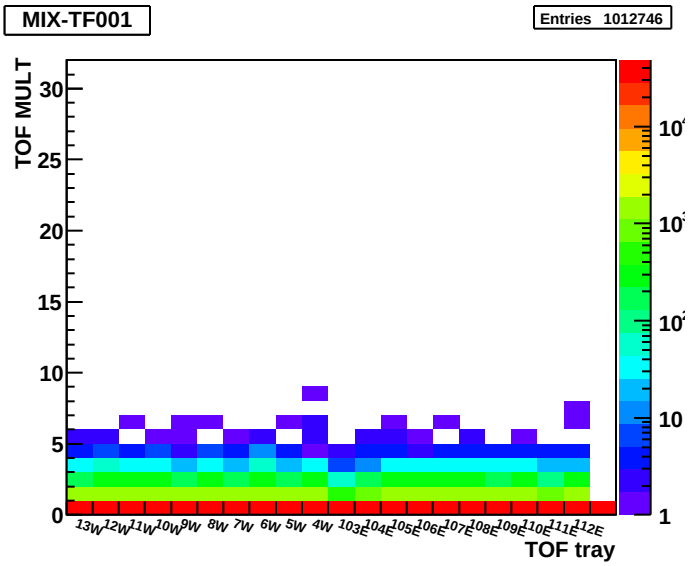

EM201 0-15 (ch3)
Entries 385808
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

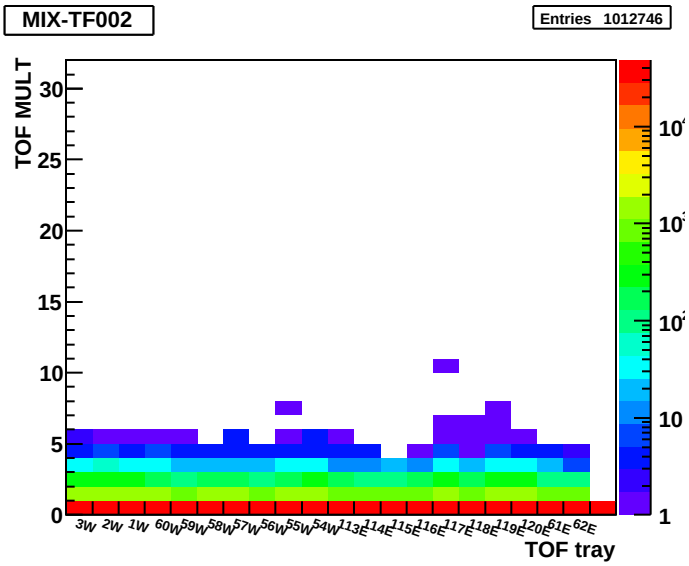

RAT board (ch4)
Entries 385808
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

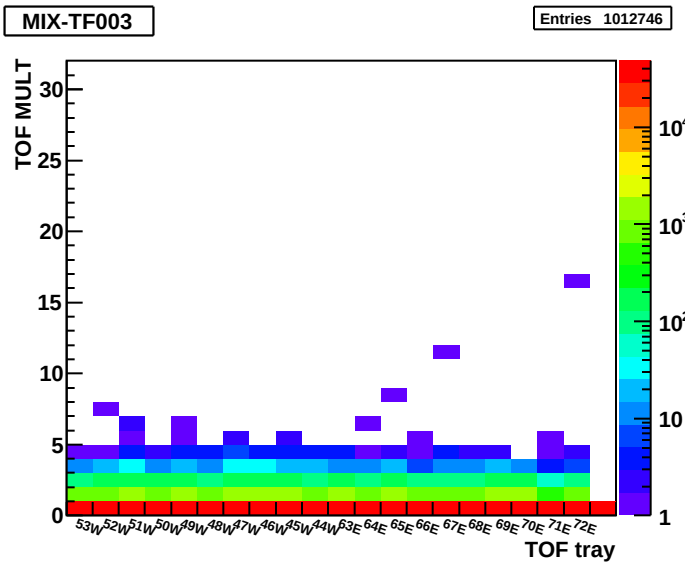

FP201 0-15 (ch5)
Entries 385808
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

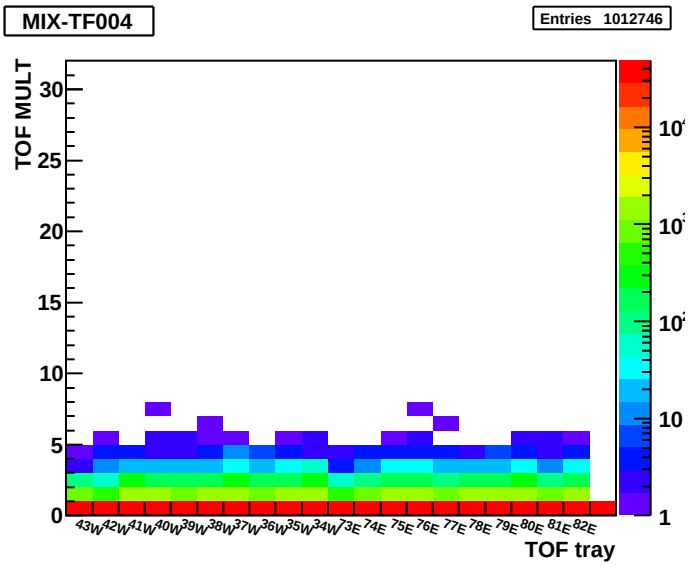

ST201 0-15 (ch6)
Entries 385808
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

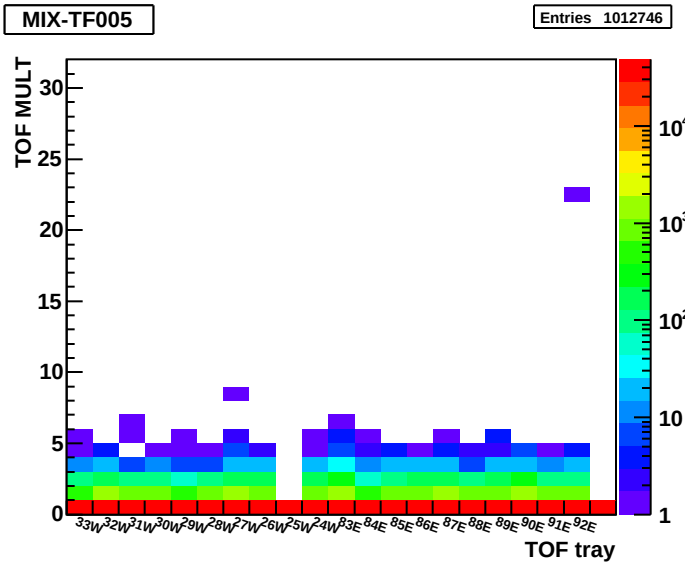

Unused (ch7)
Entries 385808

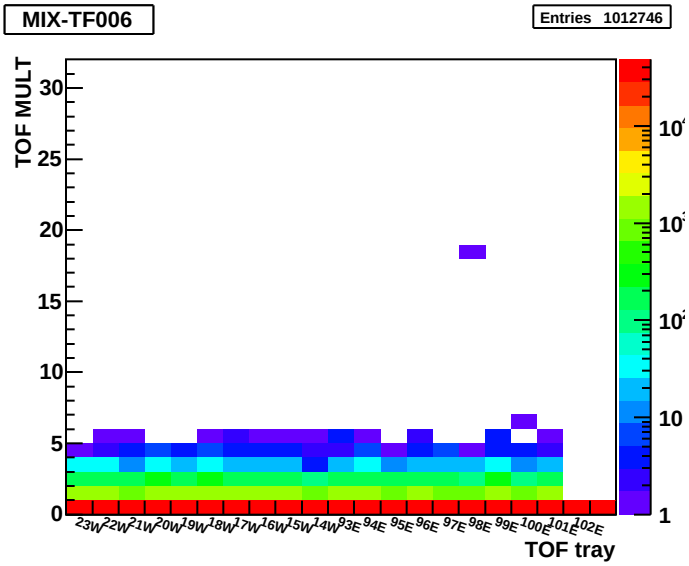

MIX-TF001
Entries 1012746
TOF MULT
TOF tray

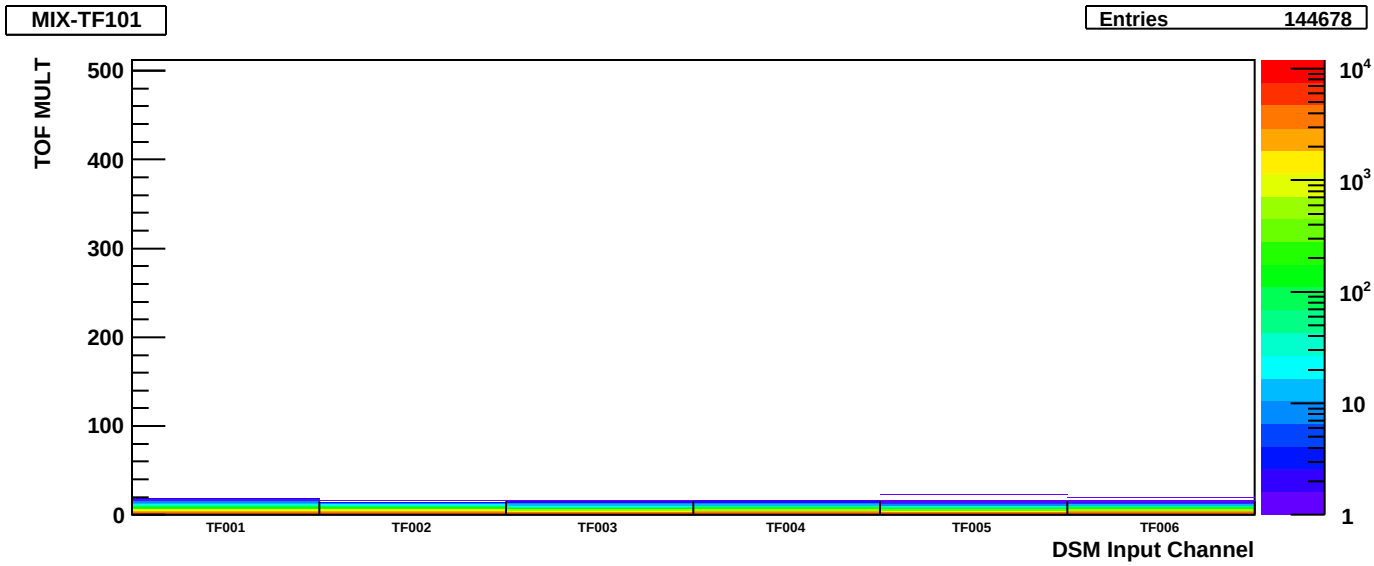

MIX-TF002
Entries 1012746
TOF MULT
TOF tray

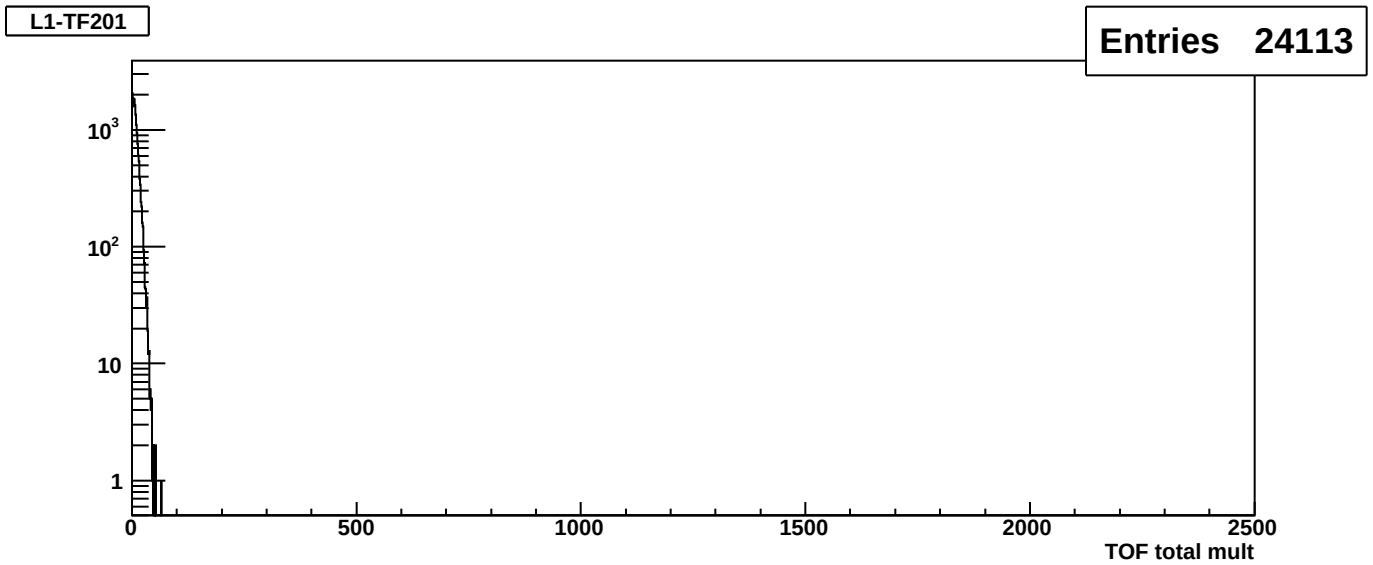

MIX-TF003
Entries 1012746
TOF MULT
TOF tray

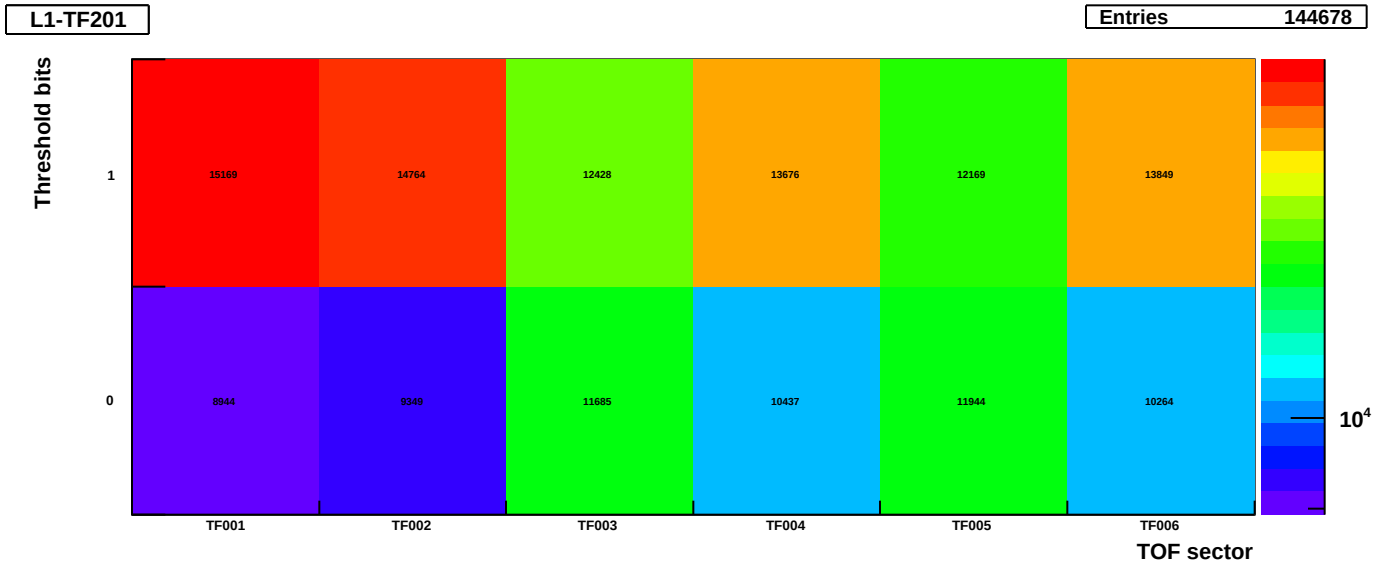

MIX-TF004
Entries 1012746
TOF MULT
TOF tray

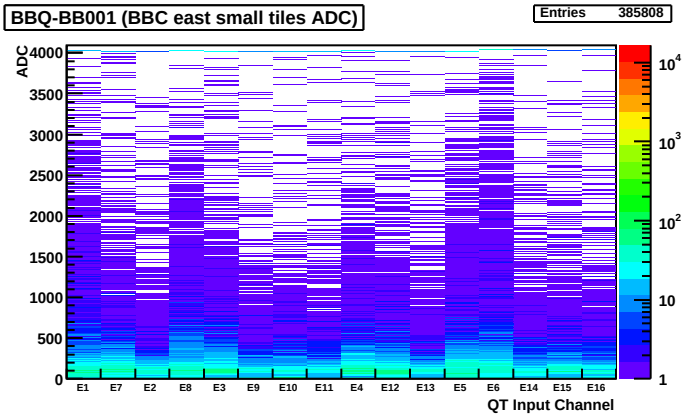

MIX-TF005
Entries 1012746
TOF MULT
TOF tray

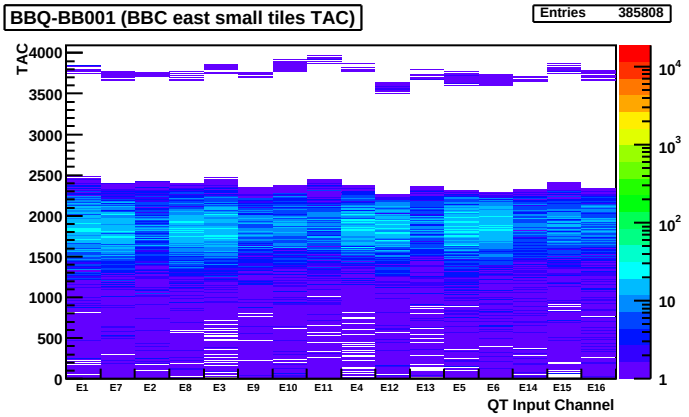

MIX-TF006
Entries 1012746
TOF MULT
TOF tray

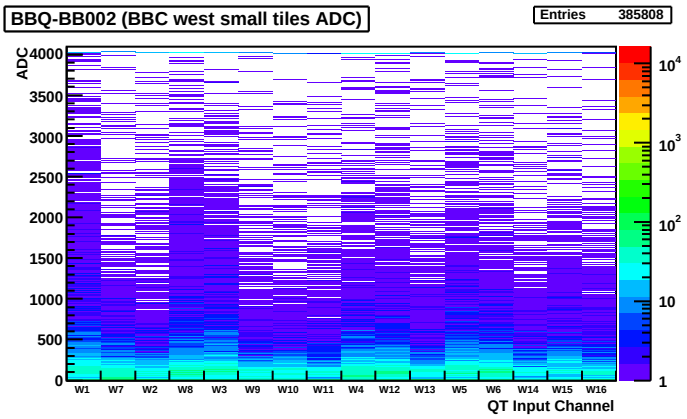

MIX-TF101
Entries 144678
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

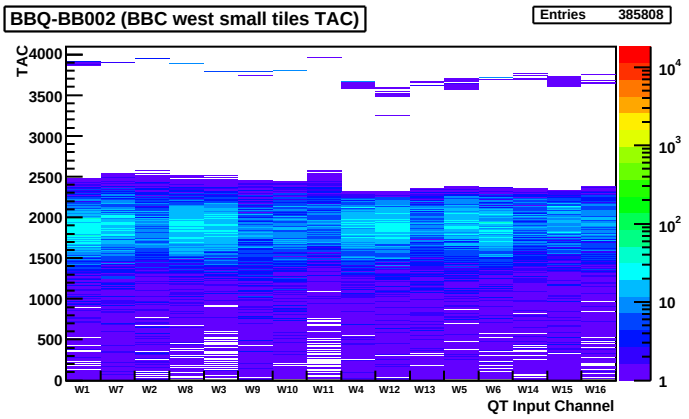

L1-TF201
Entries 24113
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

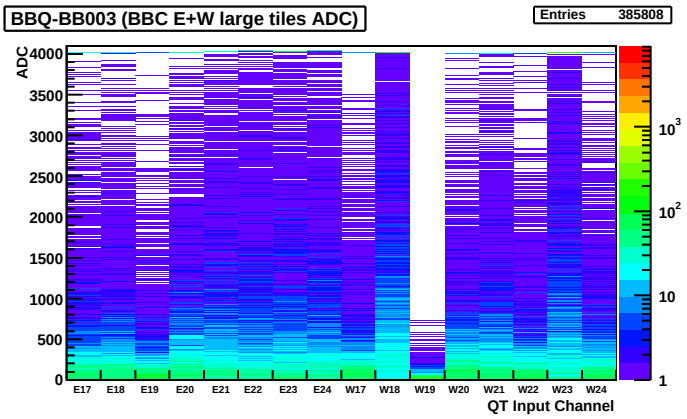

L1-TF201
Entries 144678
Threshold bits
1
0
15169
14764
12428
13676
12169
13849
8944
9349
11685
10437
11944
10264
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4

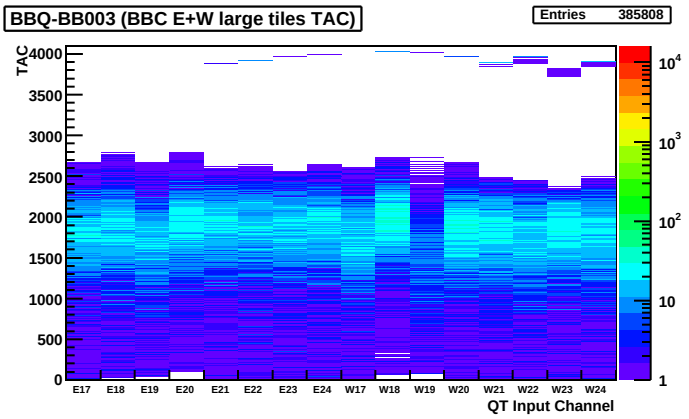

BBQ-BB001 (BBC east small tiles ADC)
Entries 385808
ADC
QT Input Channel

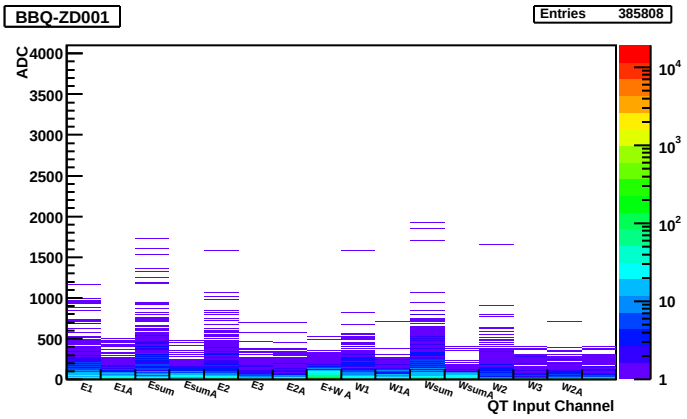

BBQ-BB001 (BBC east small tiles TAC)
Entries 385808
TAC
QT Input Channel

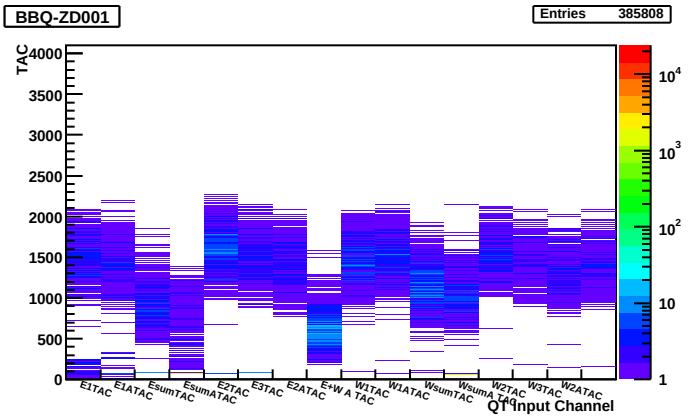

BBQ-BB002 (BBC west small tiles ADC)
Entries 385808
ADC
QT Input Channel

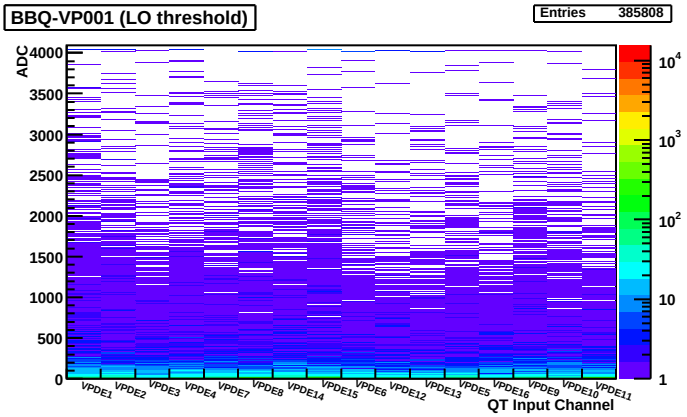

BBQ-BB002 (BBC west small tiles TAC)
Entries 385808
TAC
QT Input Channel

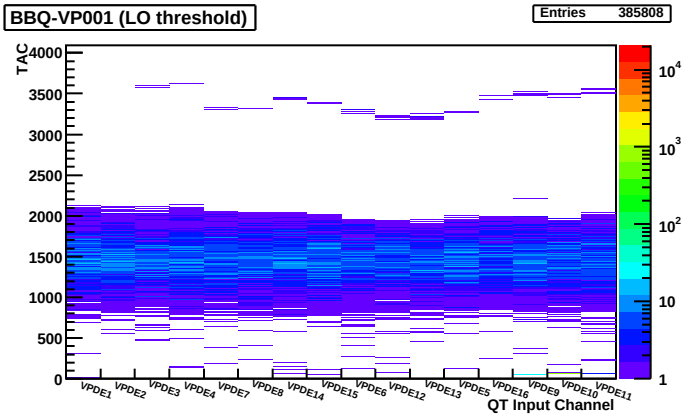

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 385808
ADC
QT Input Channel

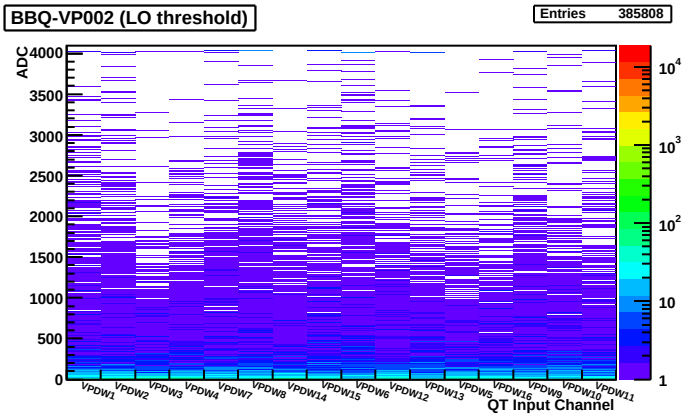

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 385808
TAC
QT Input Channel

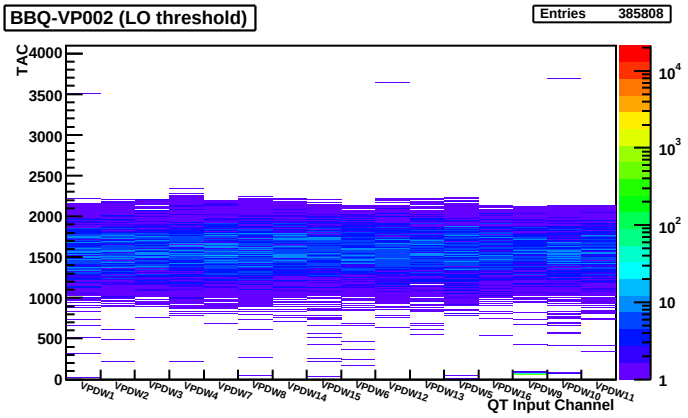

BBQ-ZD001
Entries 385808
ADC
QT Input Channel

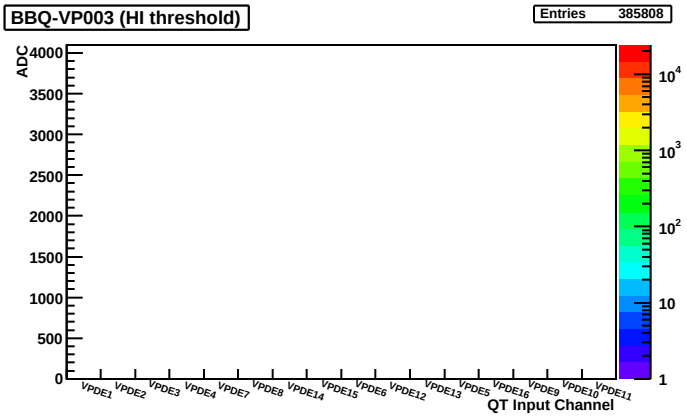

BBQ-ZD001
Entries 385808
TAC
QT Input Channel

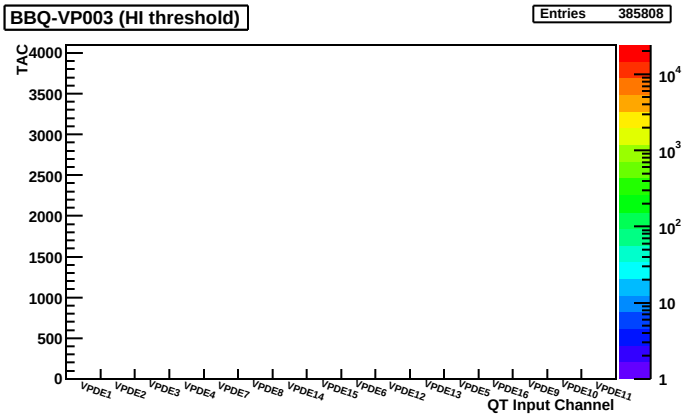

BBQ-VP001 (LO threshold)
Entries 385808
ADC
QT Input Channel

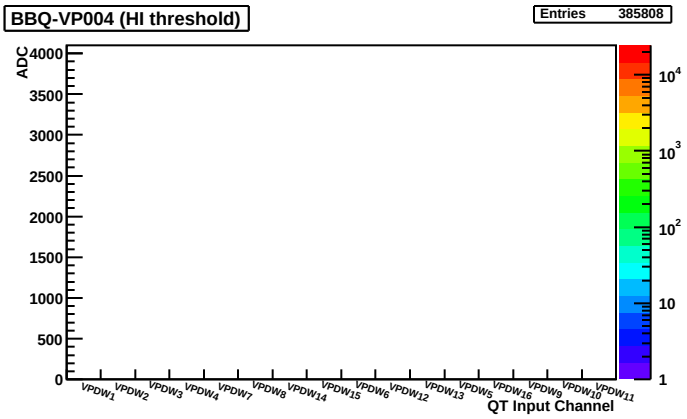

BBQ-VP001 (LO threshold)
Entries 385808
TAC
QT Input Channel

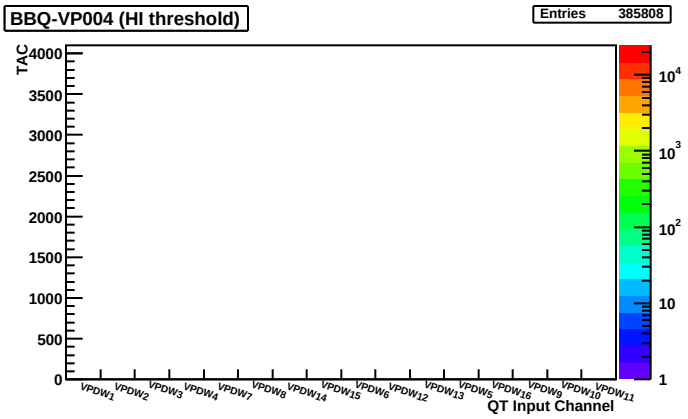

BBQ-VP002 (LO threshold)
Entries 385808
ADC
QT Input Channel

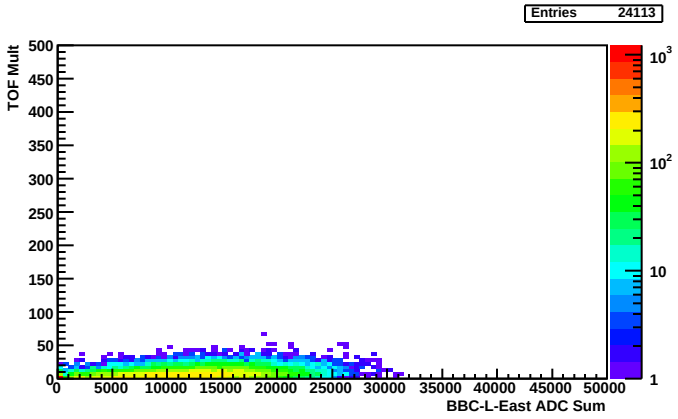

BBQ-VP002 (LO threshold)
Entries 385808
TAC
QT Input Channel

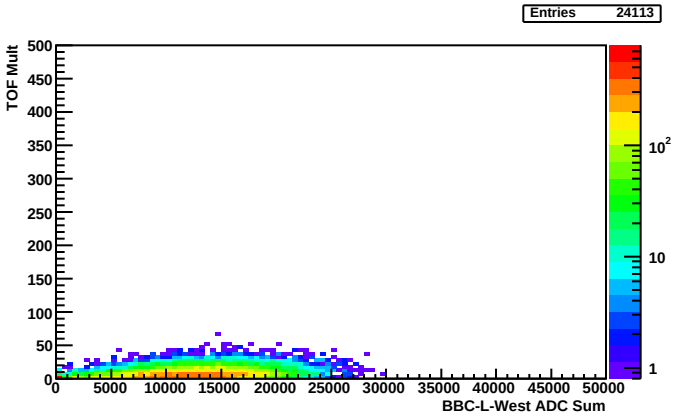

BBQ-VP003 (HI threshold)
Entries 385808
ADC
QT Input Channel

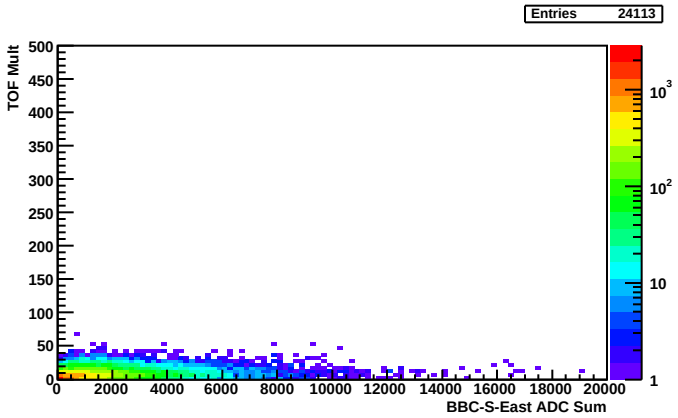

BBQ-VP003 (HI threshold)
Entries 385808
TAC
QT Input Channel

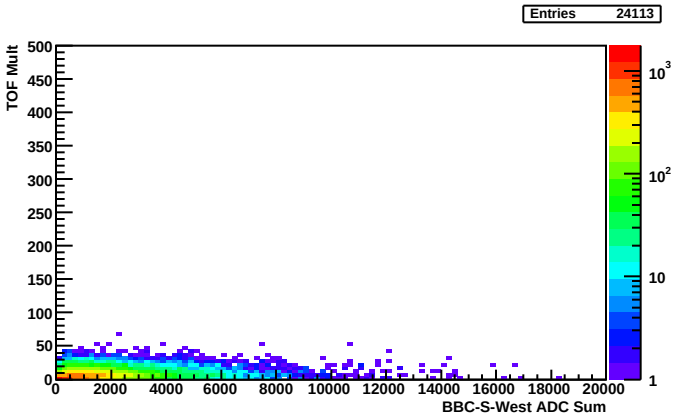

BBQ-VP004 (HI threshold)
Entries 385808
ADC
QT Input Channel

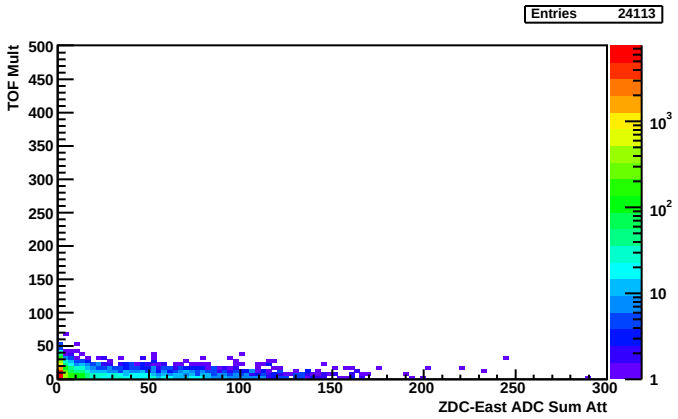

BBQ-VP004 (HI threshold)
Entries 385808
TAC
QT Input Channel

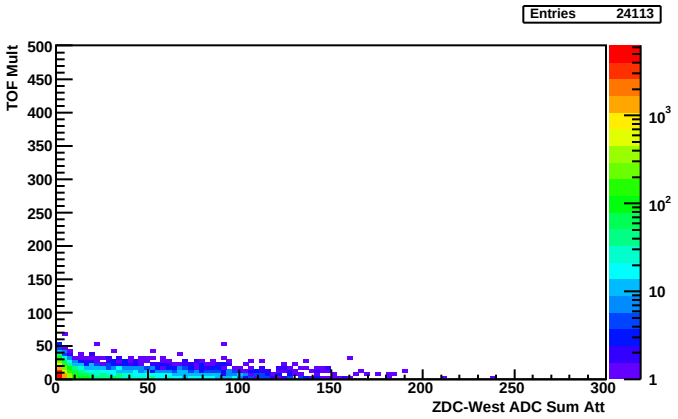

Entries 24113
TOF Mult
BBC-L-East ADC Sum

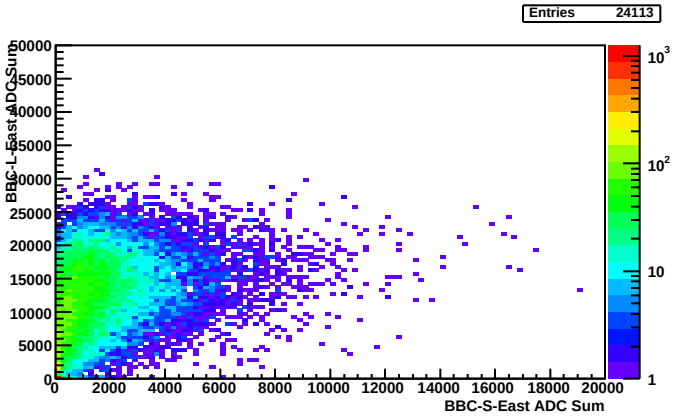

Entries 24113
TOF Mult
BBC-L-West ADC Sum

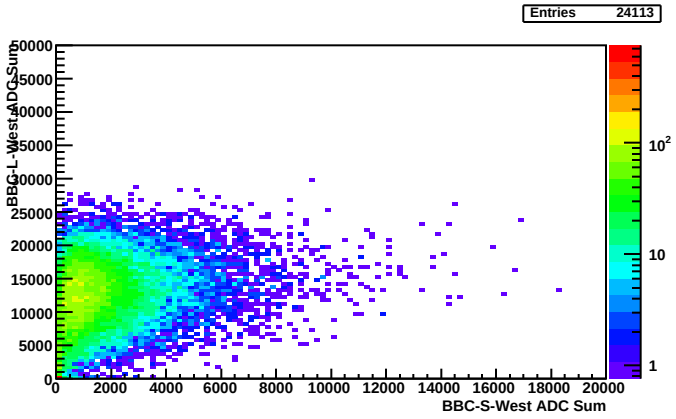

Entries 24113
TOF Mult
BBC-S-East ADC Sum

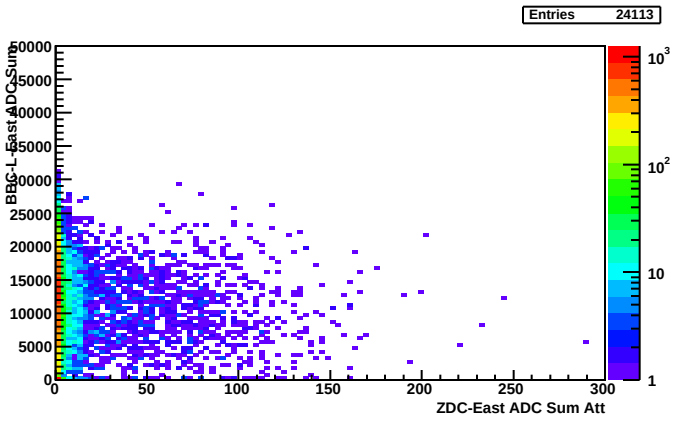

Entries 24113
TOF Mult
BBC-S-West ADC Sum

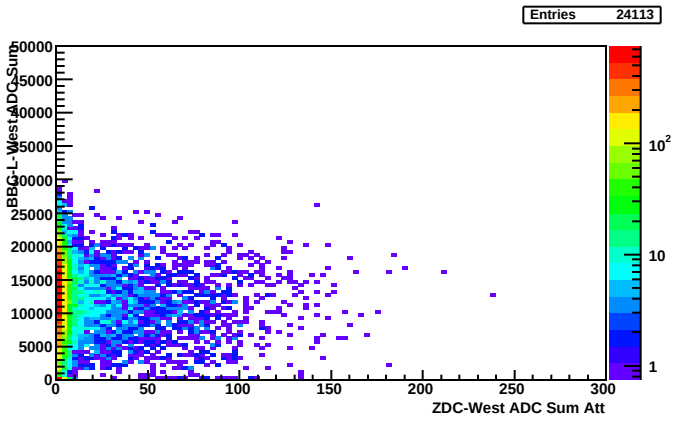

Entries 24113
TOF Mult
ZDC-East ADC Sum Att

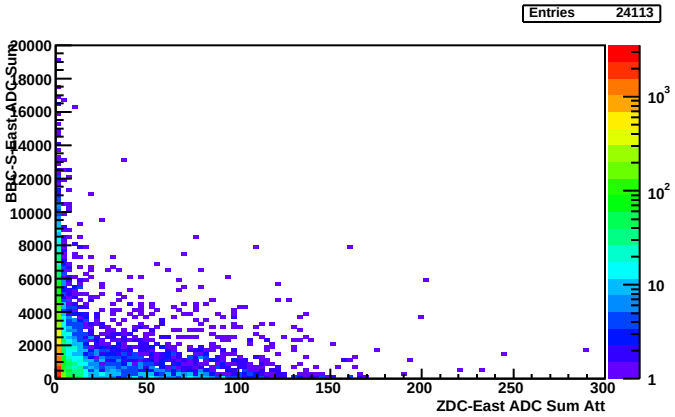

Entries 24113
TOF Mult
ZDC-West ADC Sum Att

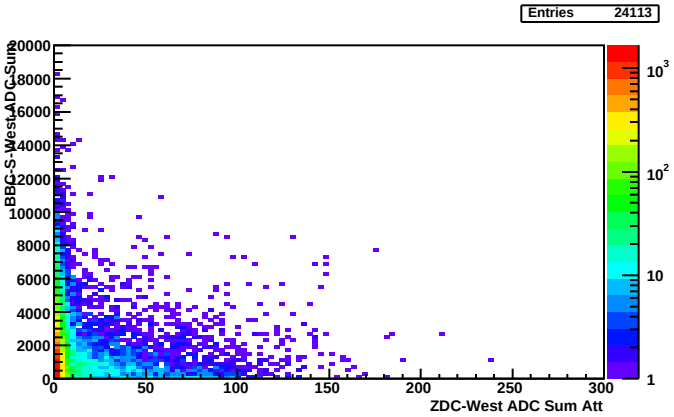

Entries 24113
BBC-L-East ADC Sum
BBC-S-East ADC Sum

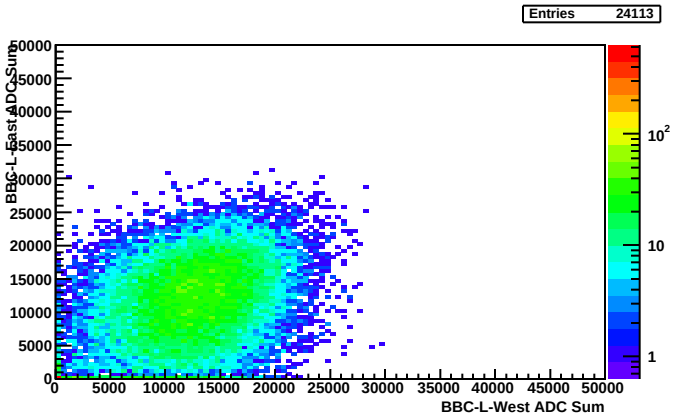

Entries 24113
BBC-L-West ADC Sum
BBC-S-West ADC Sum

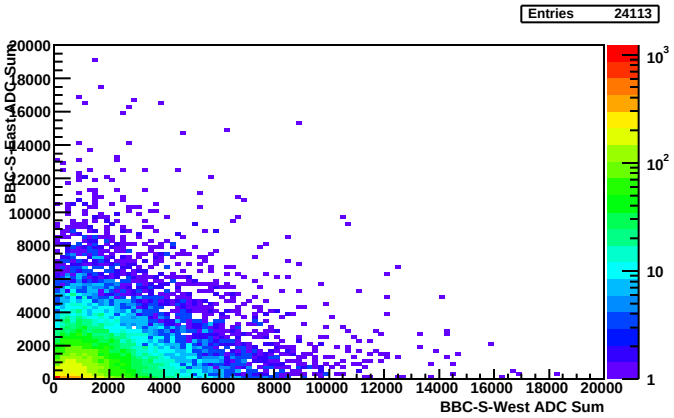

Entries 24113
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

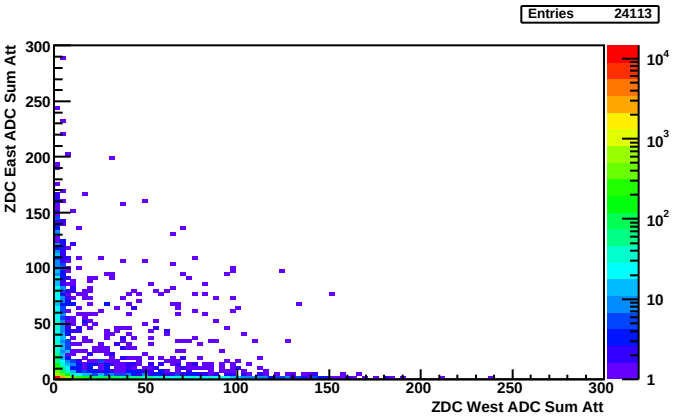

Entries 24113
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

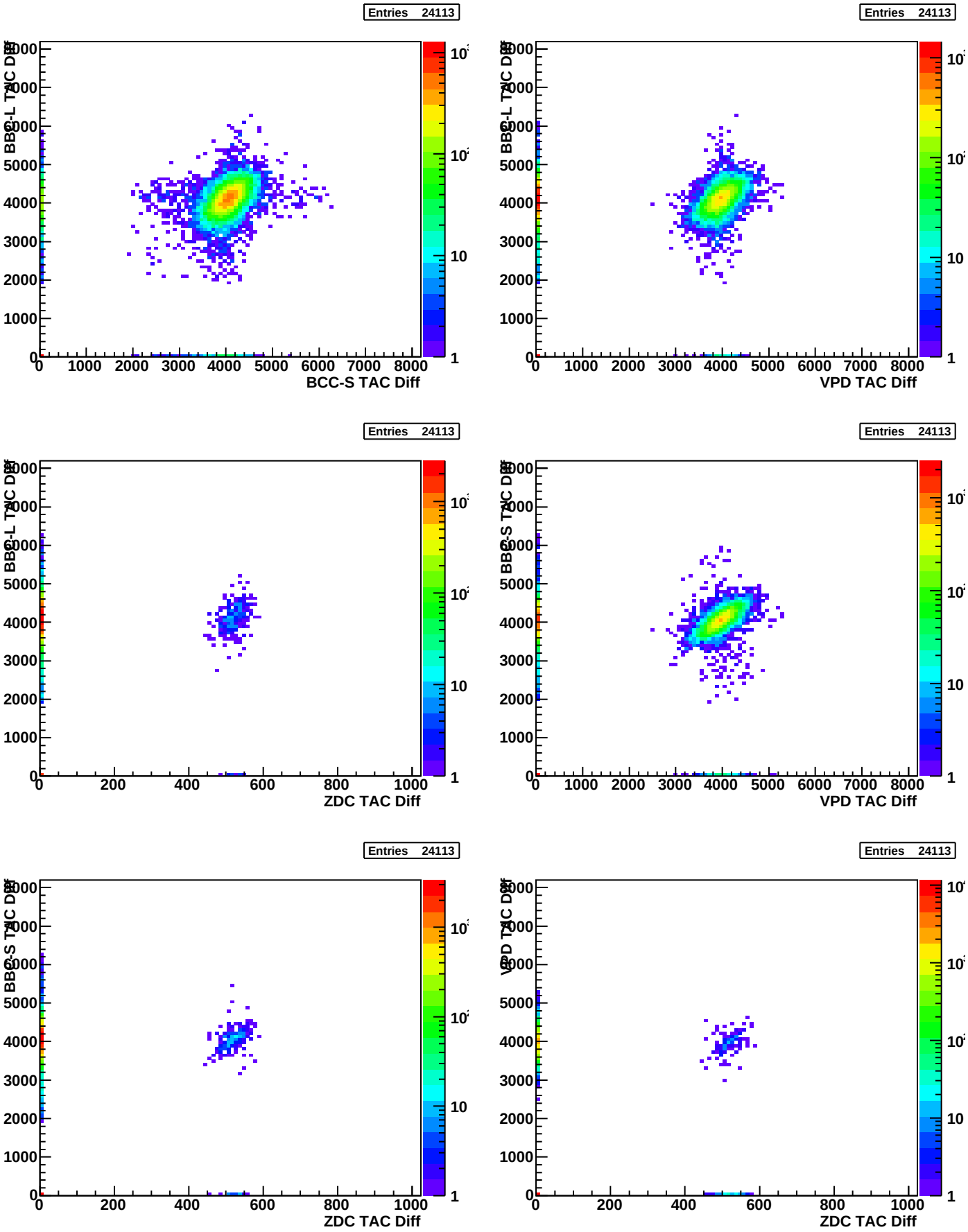

Entries 24113
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

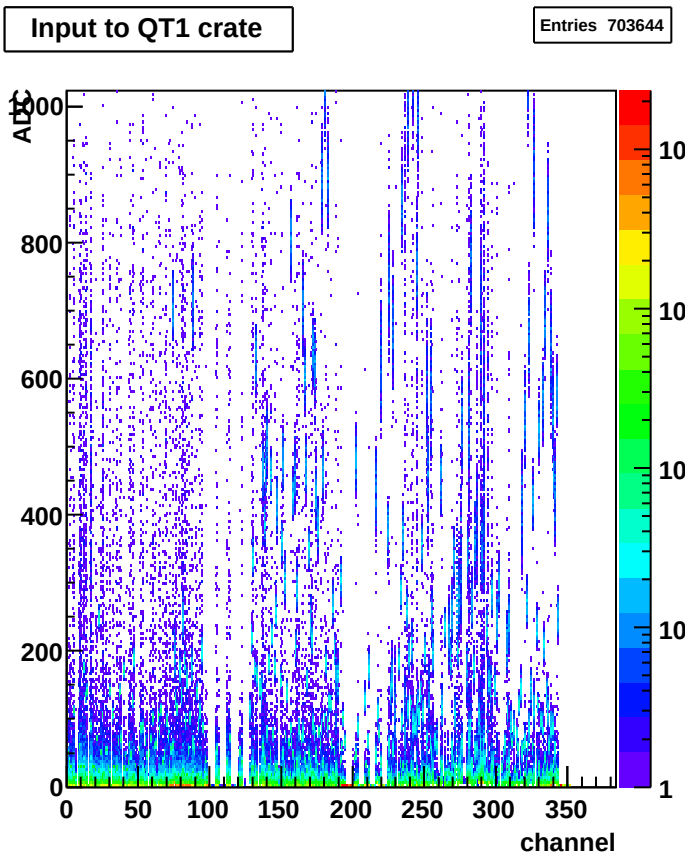

Entries 24113
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

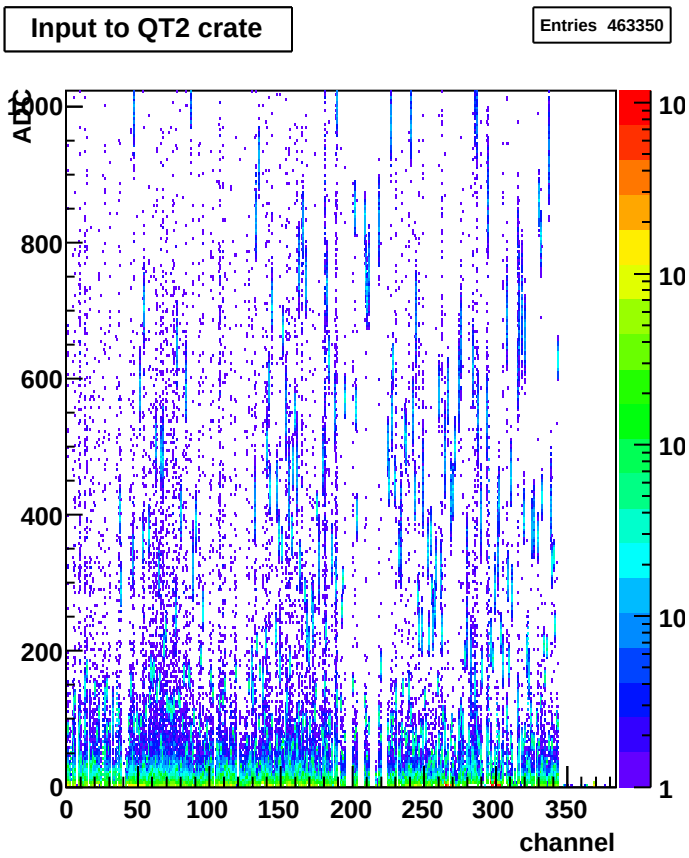

Entries 24113
BBC-L-East ADC Sum
BBC-L-West ADC Sum

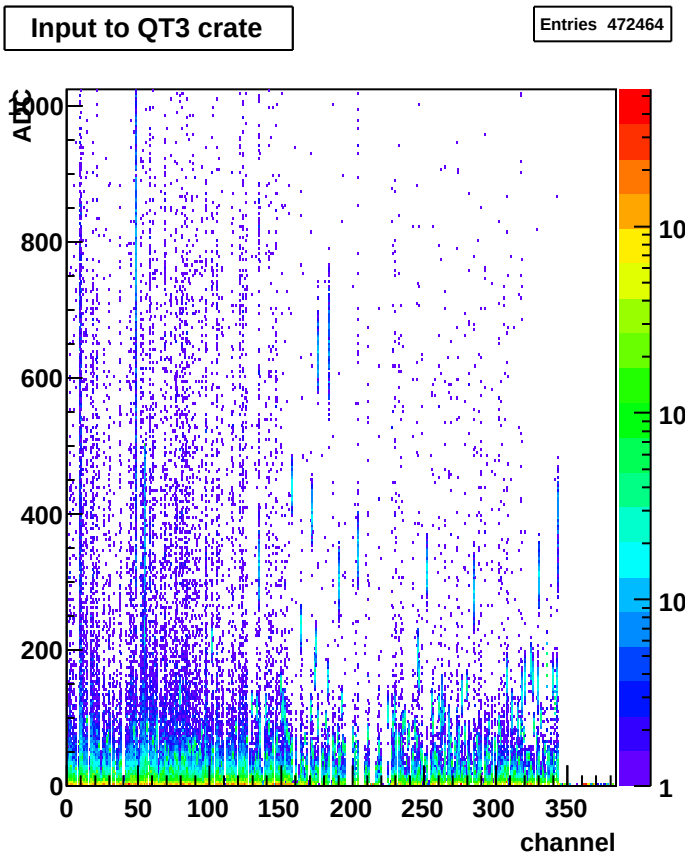

Entries 24113
BBC-S-East ADC Sum
BBC-S-West ADC Sum

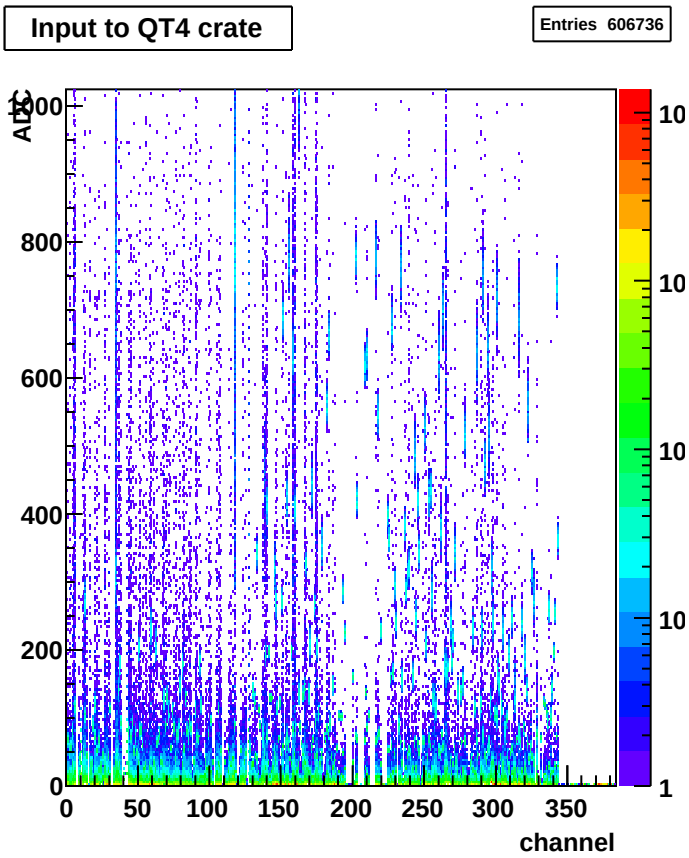

Entries 24113
ZDC East ADC Sum Att
ZDC West ADC Sum Att

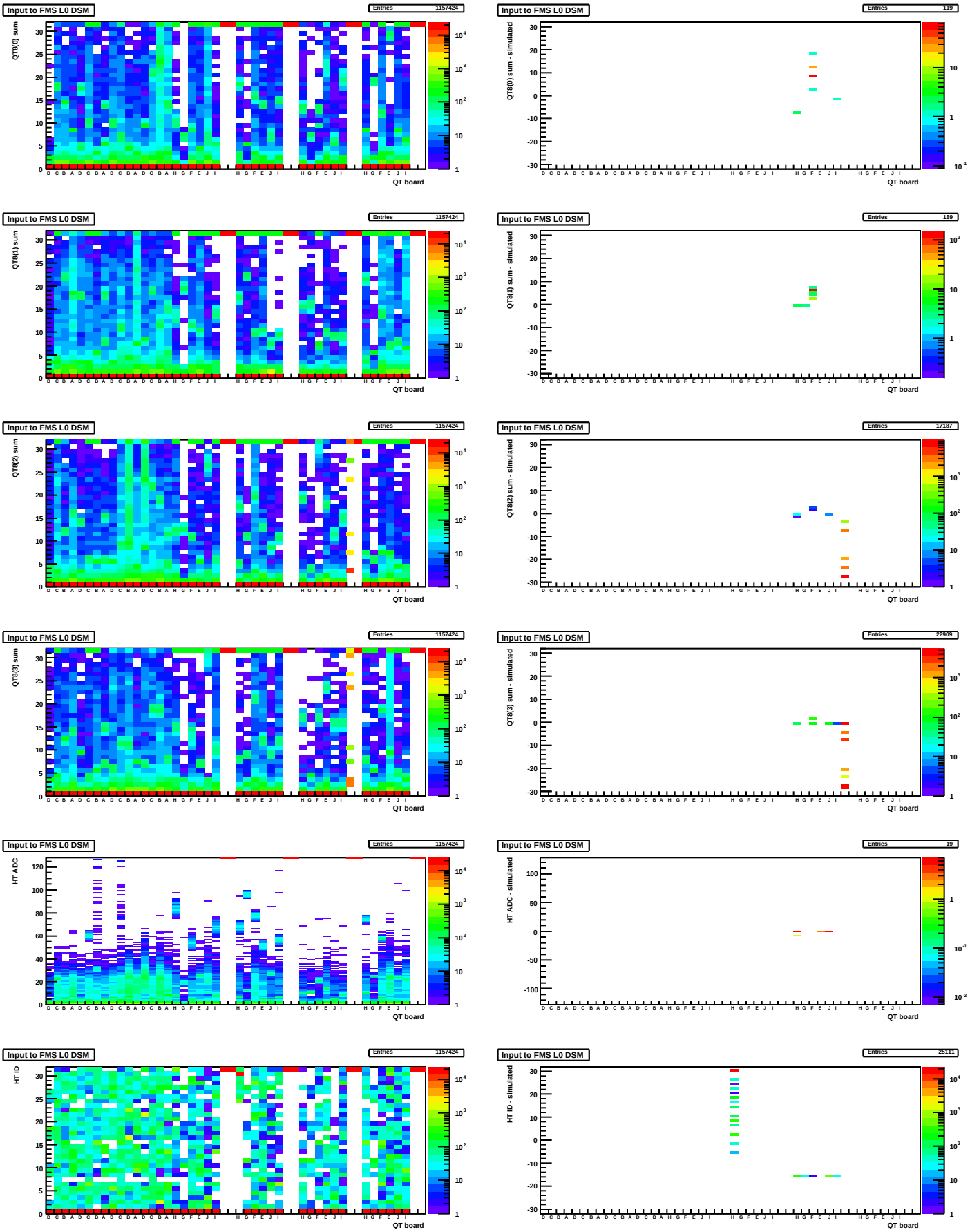

Entries 24113
BBC-L TAC Diff
BCC-S TAC Diff
Entries 24113
BBC-L TAC Diff
VPD TAC Diff
Entries 24113
BBC-L TAC Diff
ZDC TAC Diff
Entries 24113
BBC-S TAC Diff
VPD TAC Diff
Entries 24113
BBC-S TAC Diff
ZDC TAC Diff
Entries 24113
VPD TAC Diff
ZDC TAC Diff

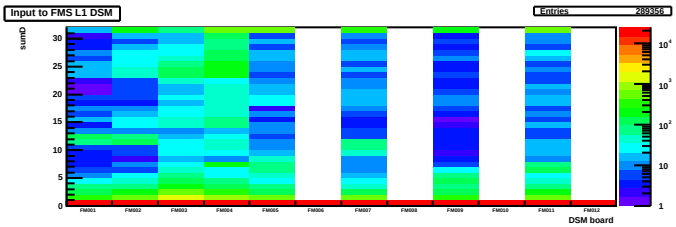

Input to QT1 crate
Entries 703644
ADC
channel

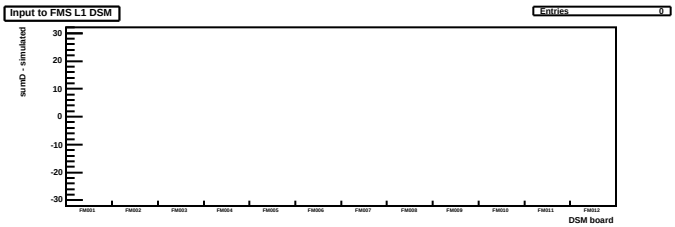

Input to QT2 crate
Entries 463350
ADC
channel

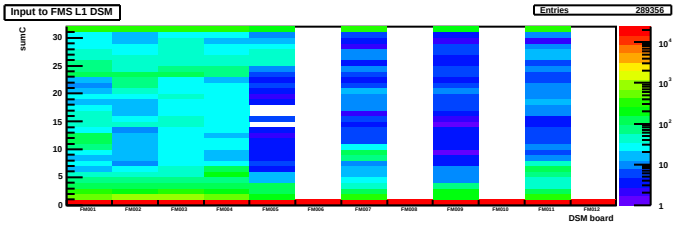

Input to QT3 crate
Entries 472464
ADC
channel

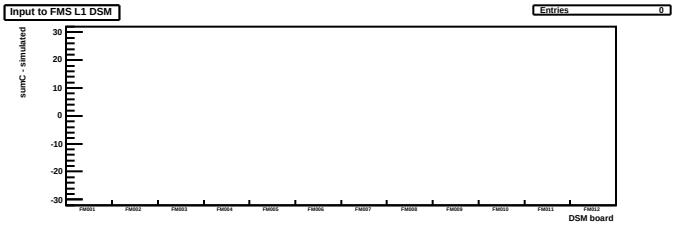

Input to QT4 crate
Entries 606736
ADC
channel

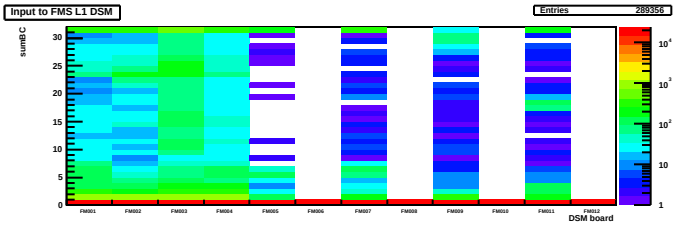

Input to FMS L0 DSM
Entries 1157424
QT8(0) sum
QT8(1) sum
QT8(2) sum
QT8(3) sum
HT ADC
HT ID
QT board
Input to FMS L0 DSM
Entries 119
Entries 189
Entries 17187
Entries 22909
Entries 19
Entries 25111
QT8(0) sum - simulated
QT8(1) sum - simulated
QT8(2) sum - simulated
QT8(3) sum - simulated
HT ADC - simulated
HT ID - simulated
QT board

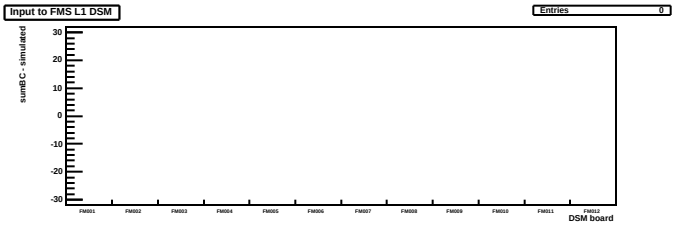

Input to FMS L1 DSM
Entries 289356
sumD
DSM board

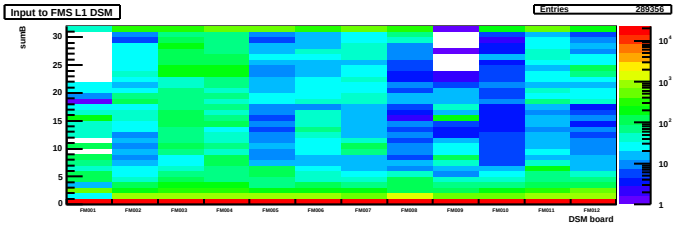

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

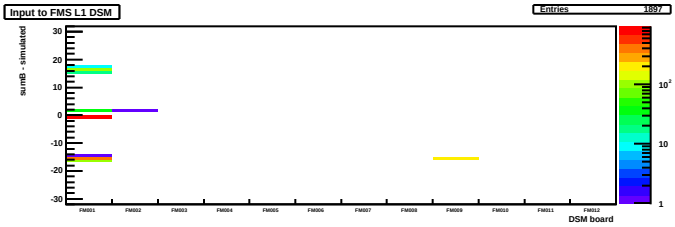

Input to FMS L1 DSM
Entries 289356
sumC
DSM board

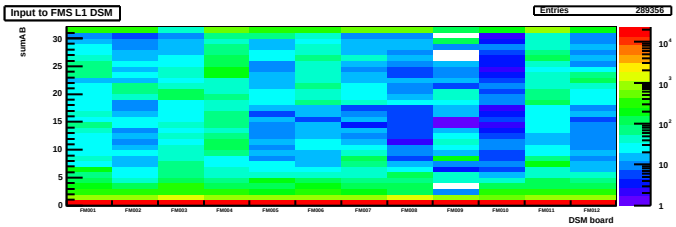

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

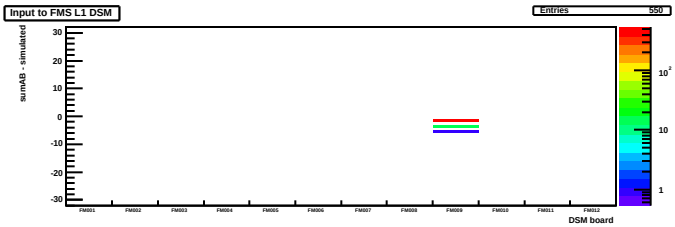

Input to FMS L1 DSM
Entries 289356
sumBC
DSM board

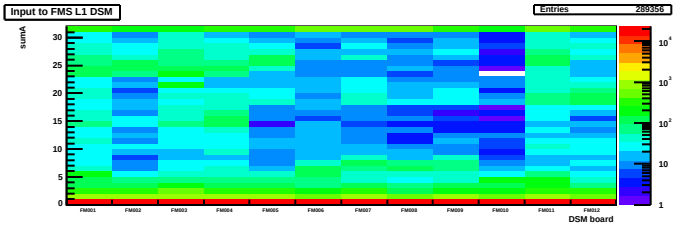

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

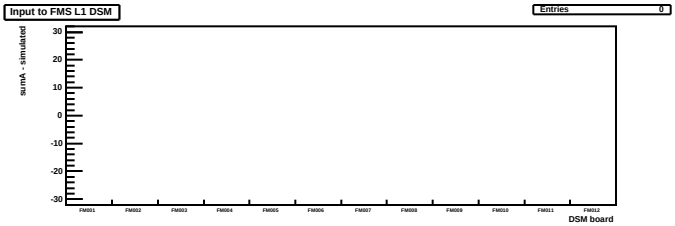

Input to FMS L1 DSM
Entries 289356
sumB
DSM board

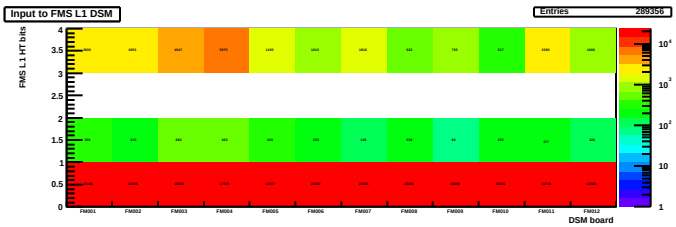

Input to FMS L1 DSM
Entries 1897
sumB - simulated
DSM board

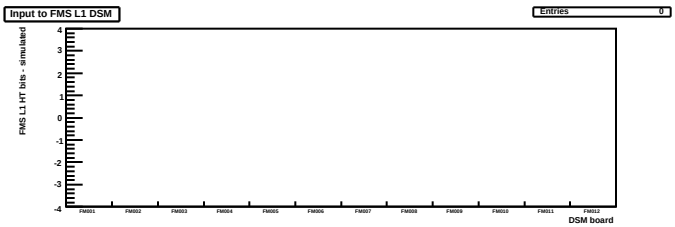

Input to FMS L1 DSM
Entries 289356
sumAB
DSM board

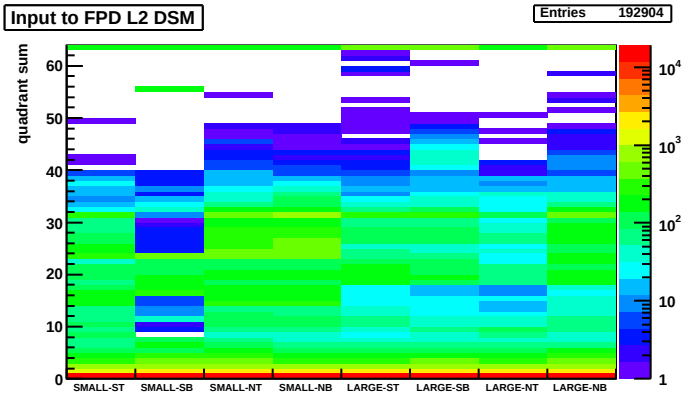

Input to FMS L1 DSM
Entries 550
sumAB - simulated
DSM board

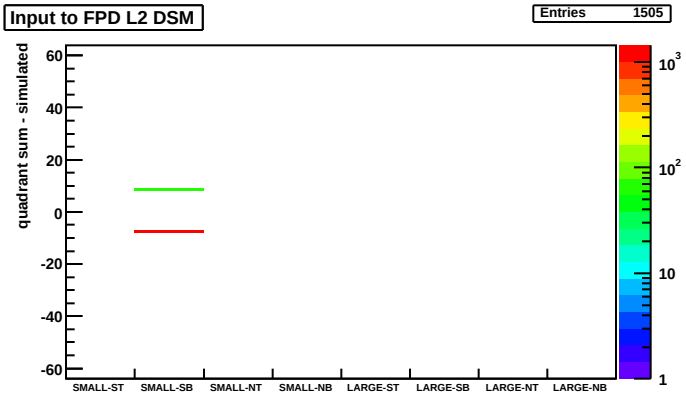

Input to FMS L1 DSM
Entries 289356
sumA
DSM board

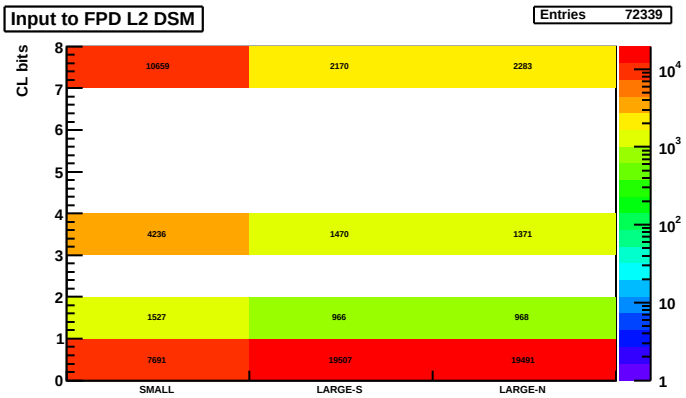

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

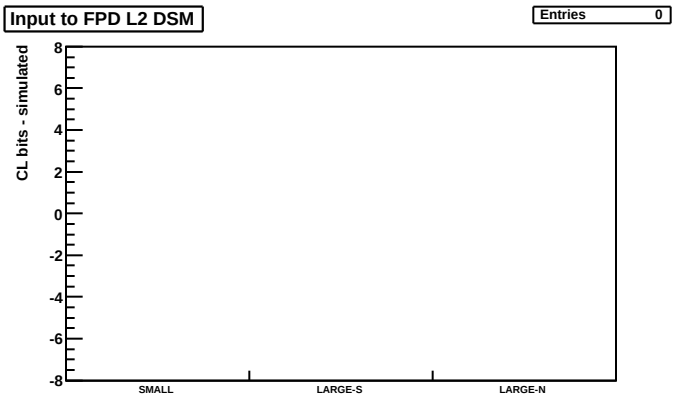

Input to FMS L1 DSM
Entries 289356
FMS L1 HT bits
DSM board

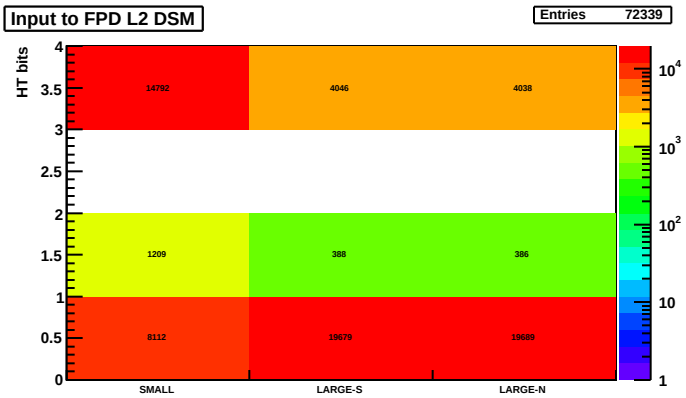

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

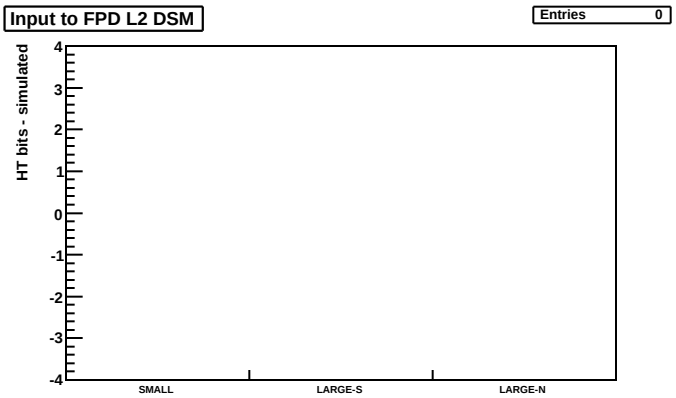

Input to FPD L2 DSM
Entries 192904
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

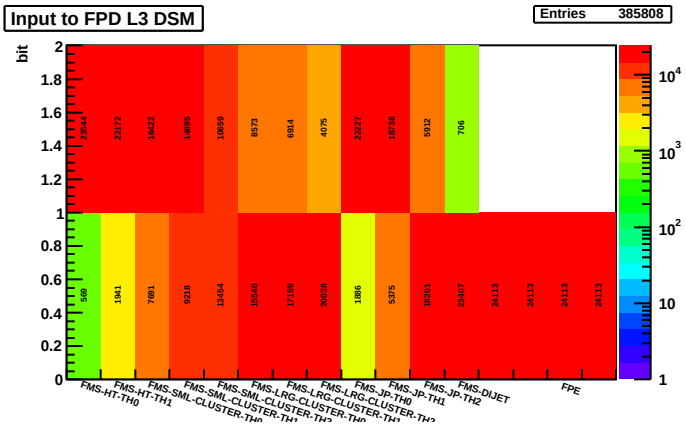

Input to FPD L2 DSM
Entries 1505
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

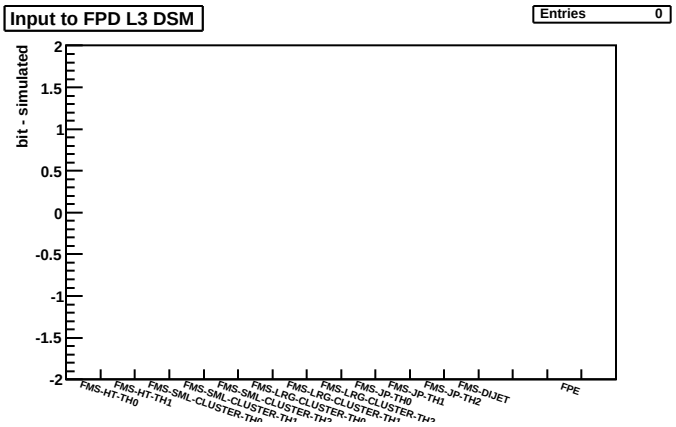

Input to FPD L2 DSM
Entries 72339
CL bits
10659
2170
2283
4236
1470
1371
1527
966
968
7691
19507
19491
SMALL
LARGE-S
LARGE-N

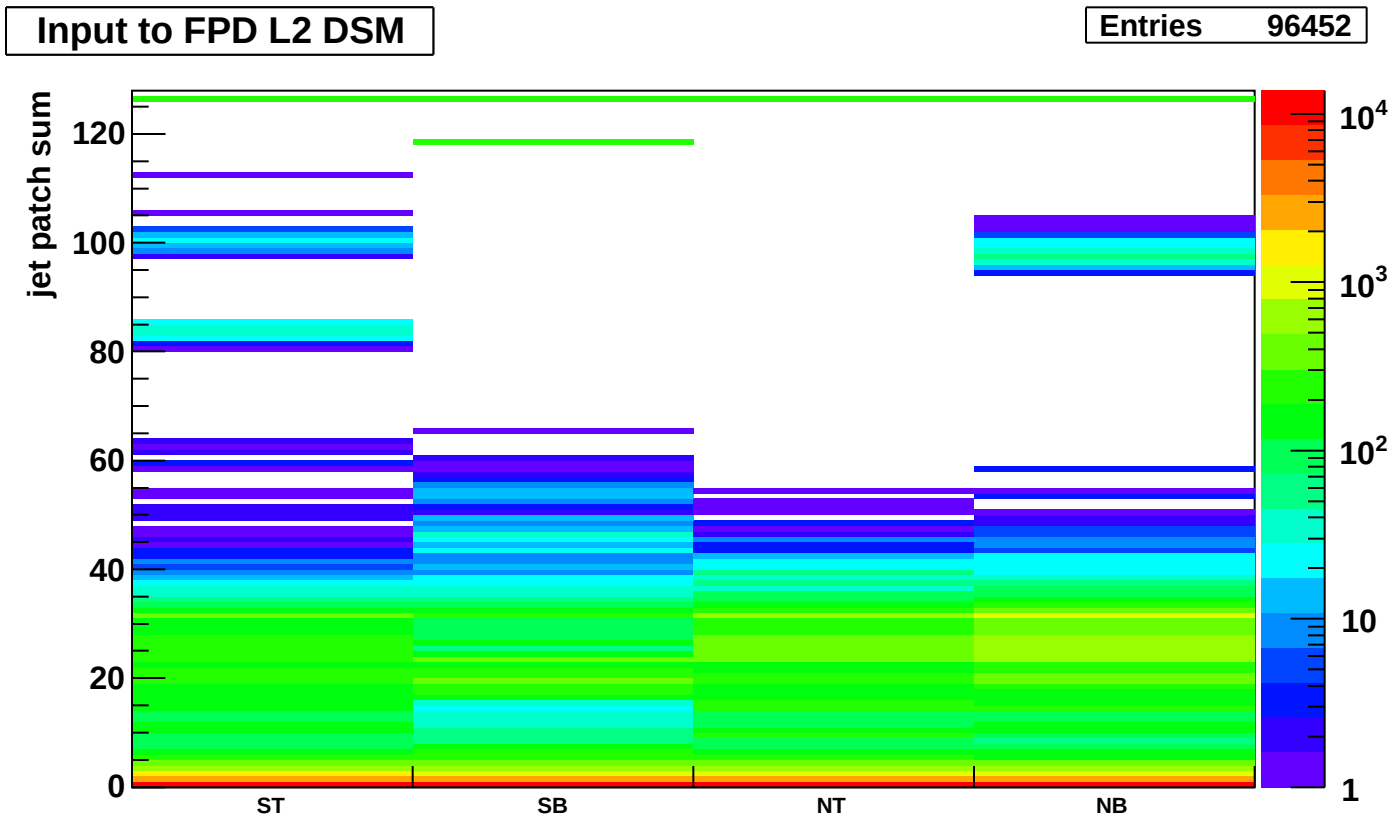

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

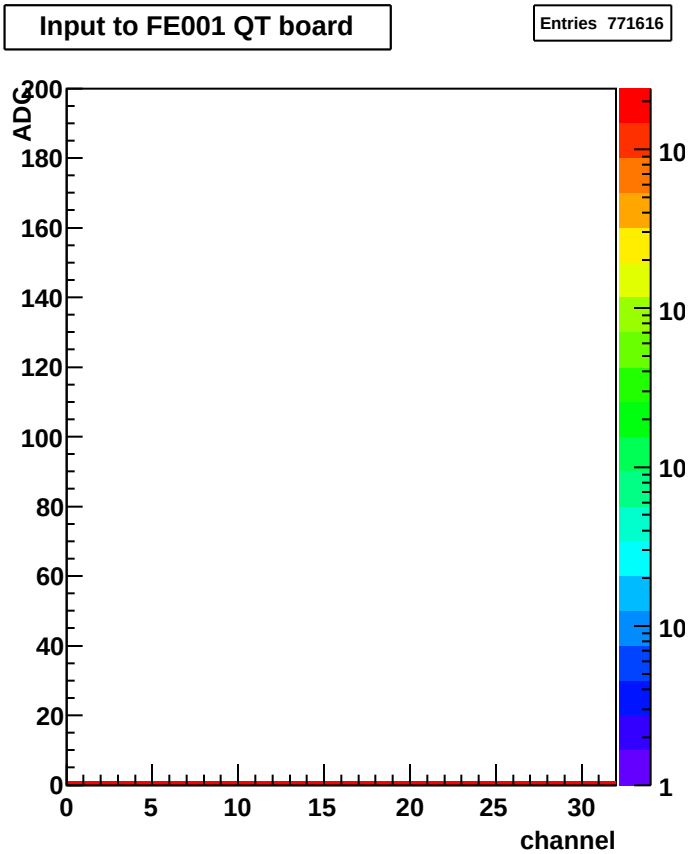

Input to FPD L2 DSM
Entries 72339
HT bits
14792
4046
4038
1209
388
386
8112
19679
19689
SMALL
LARGE-S
LARGE-N

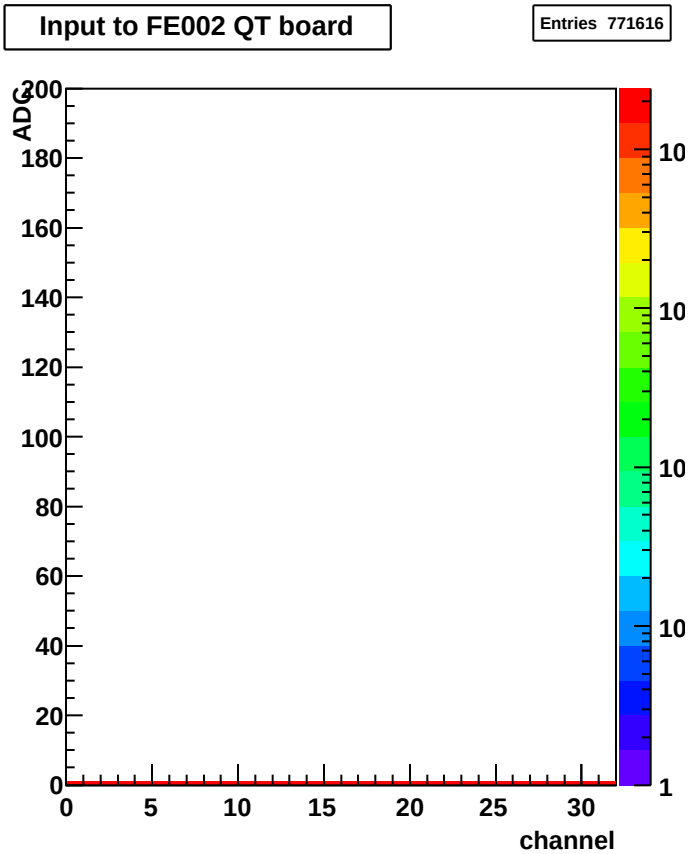

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

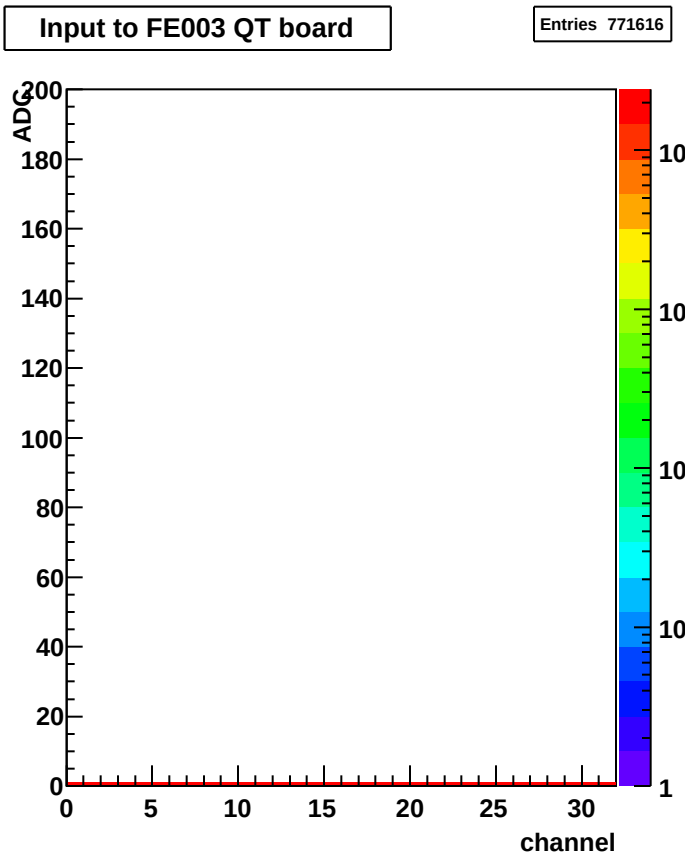

Input to FPD L3 DSM
Entries 385808
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

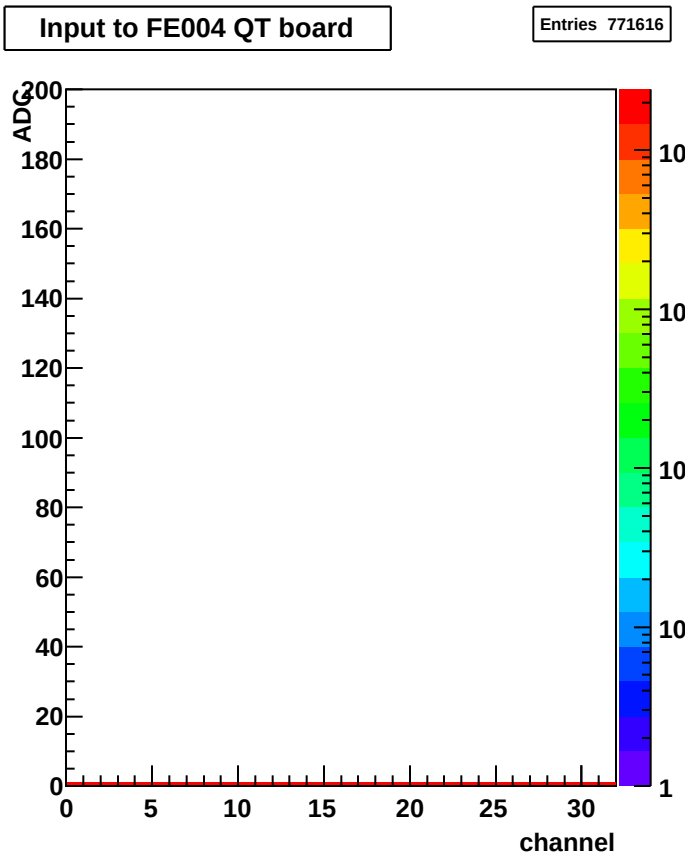

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

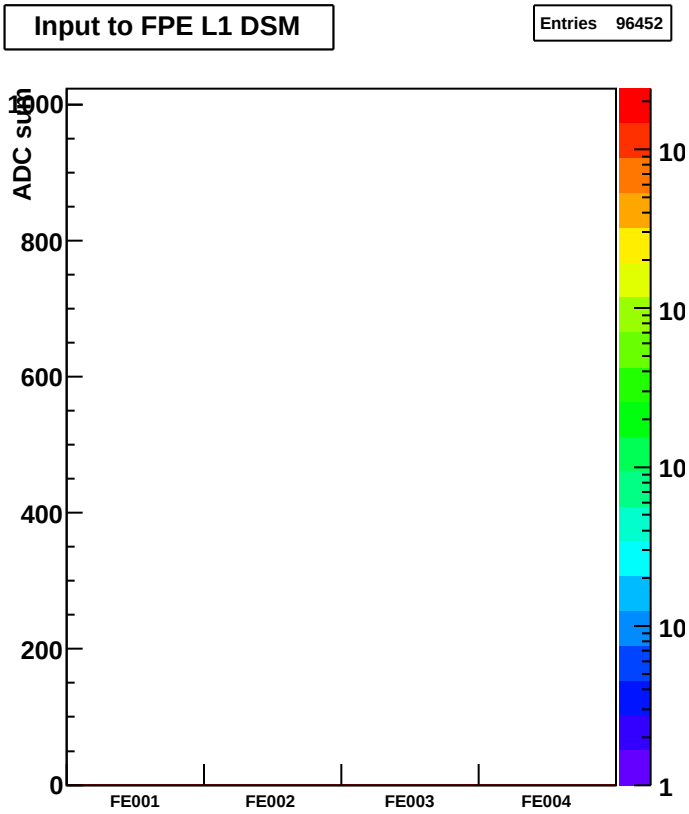

Input to FPD L2 DSM
Entries 96452
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

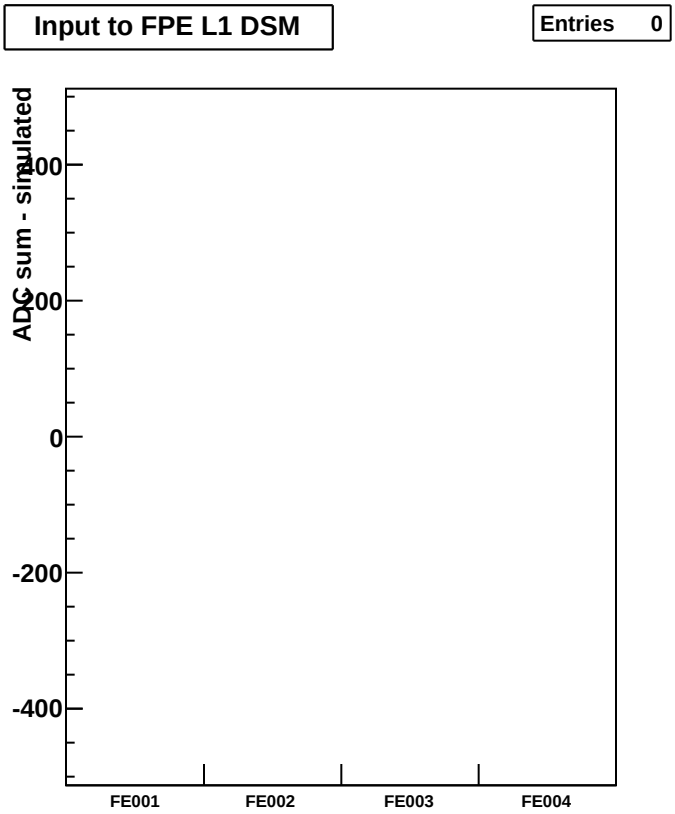

Input to FE001 QT board
Entries 771616
ADC
channel

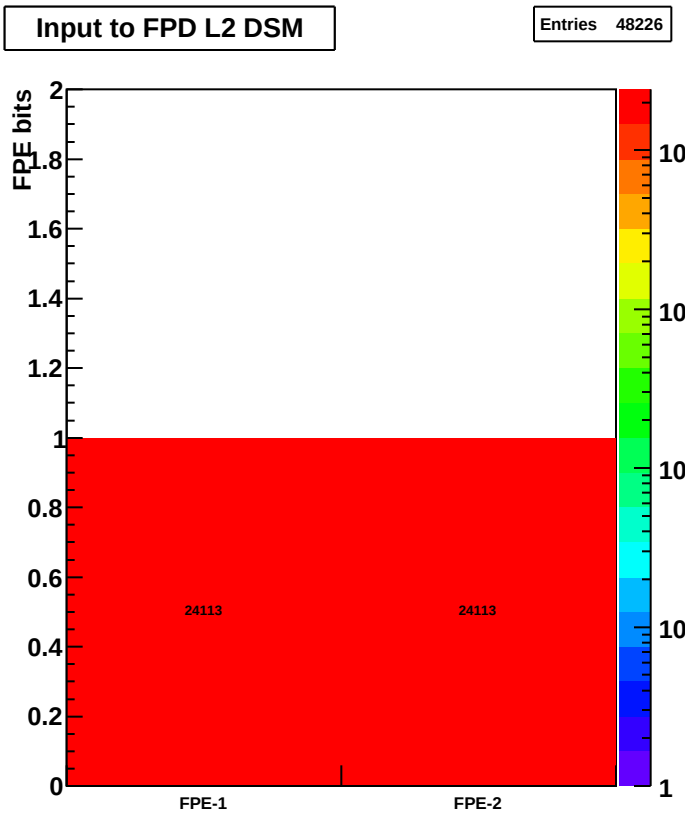

Input to FE002 QT board
Entries 771616
ADC
channel

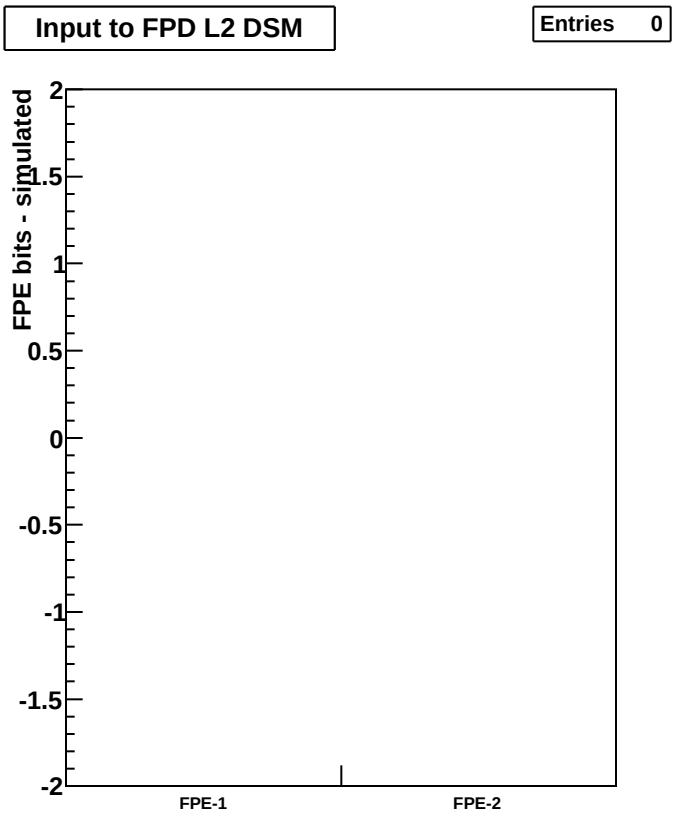

Input to FE003 QT board
Entries 771616
ADC
channel


Input to FE004 QT board
Entries 771616
ADC
channel


Input to FPE L1 DSM
Entries 96452
ADC sum
1000
800
600
400
200
0
FE001
FE002
FE003
FE004
10
10
10
10
1


Input to FPE L1 DSM
Entries 0
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries 48226
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
24113
24113
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