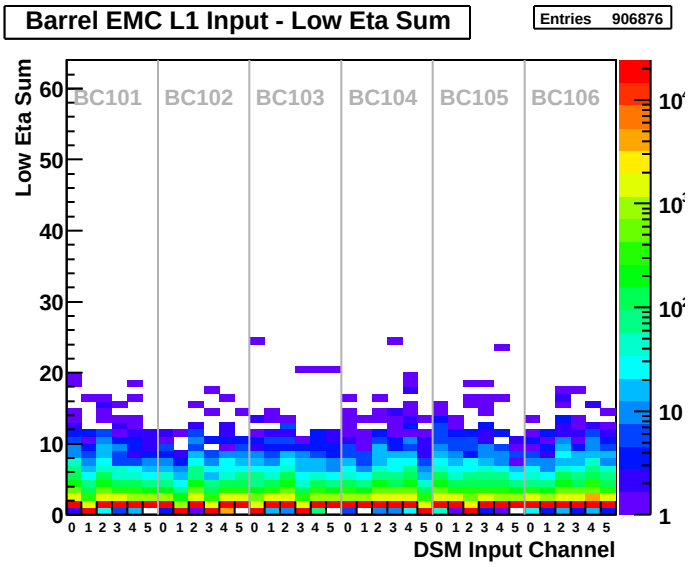
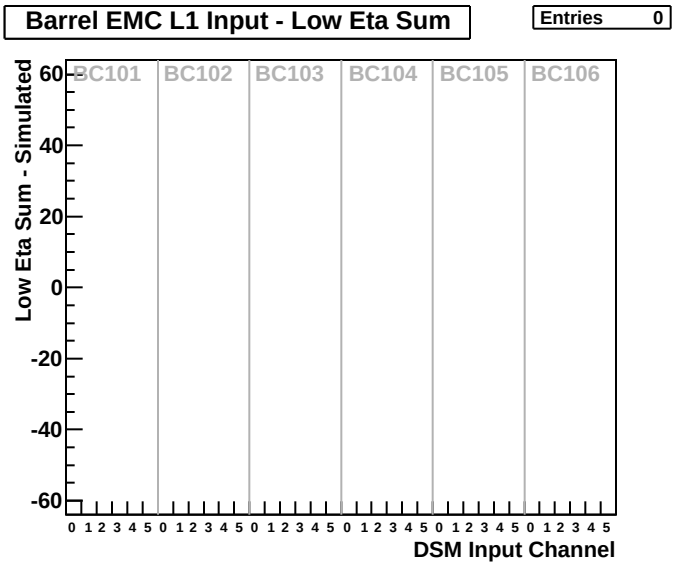
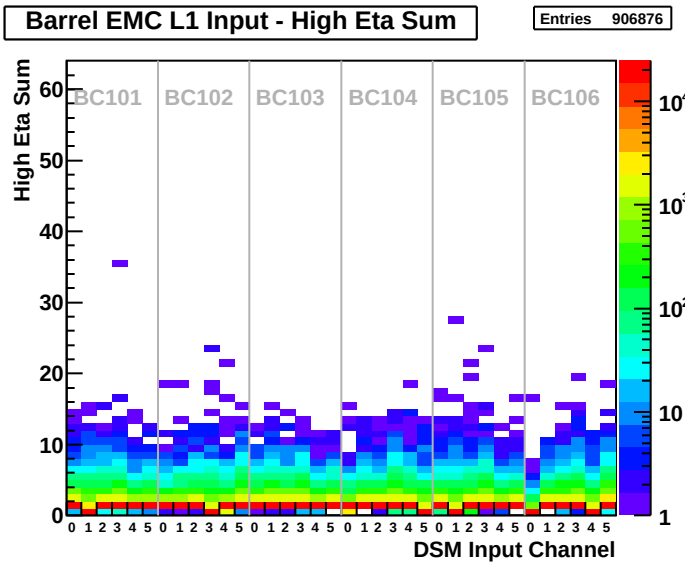
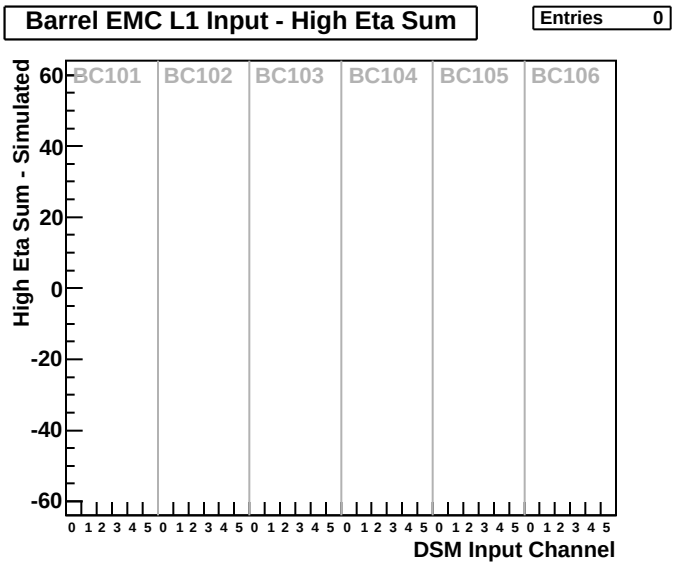
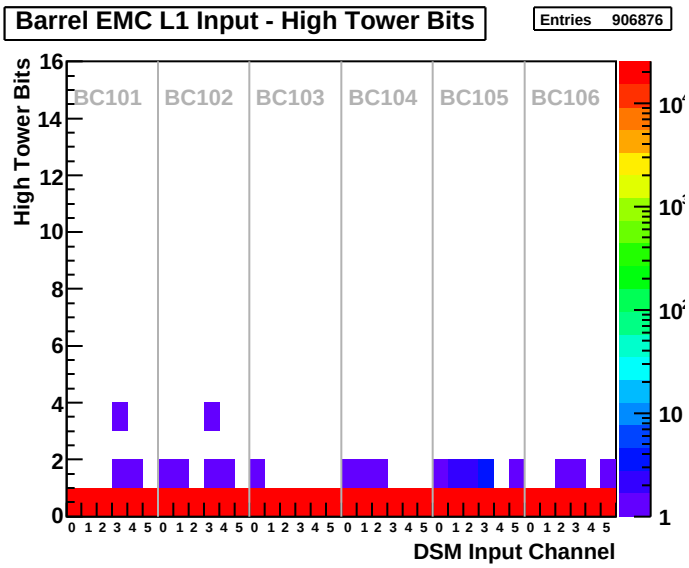
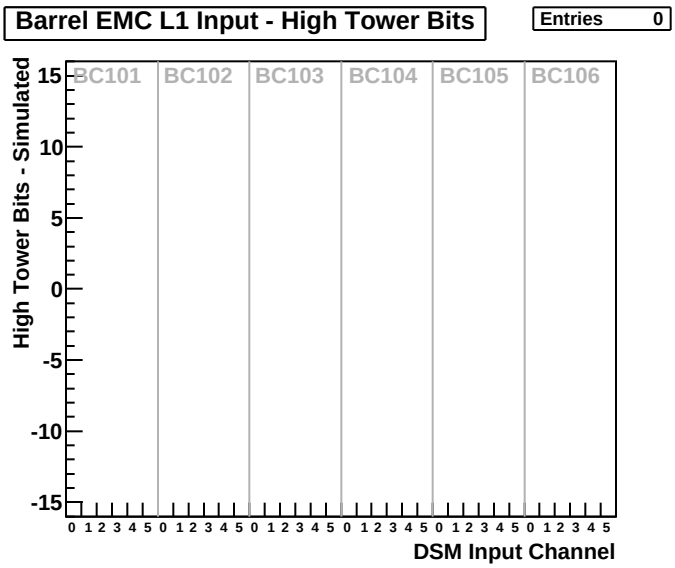

Barrel EMC L1 Input - Low Eta Sum
Entries 906876
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

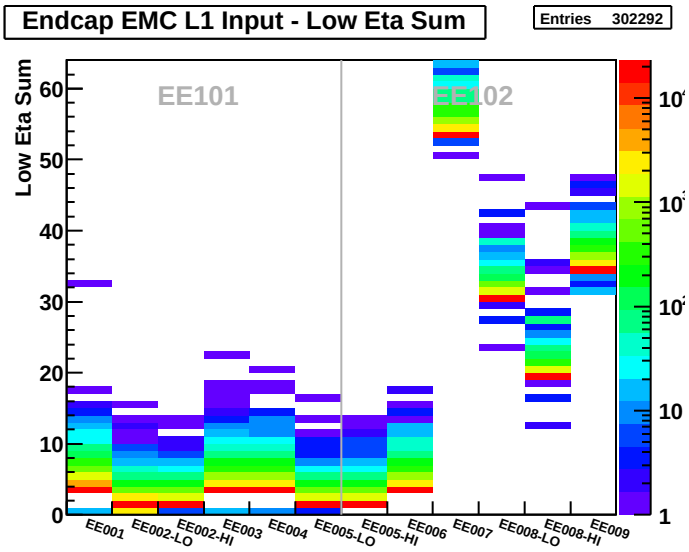

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

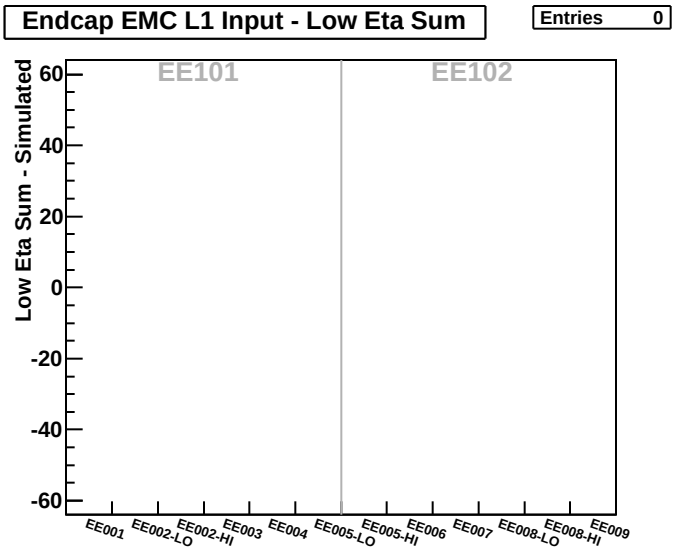

Barrel EMC L1 Input - High Eta Sum
Entries 906876
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

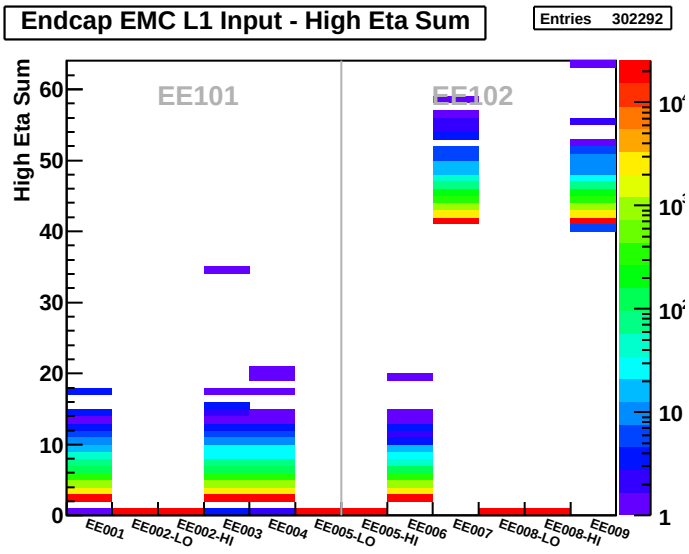

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

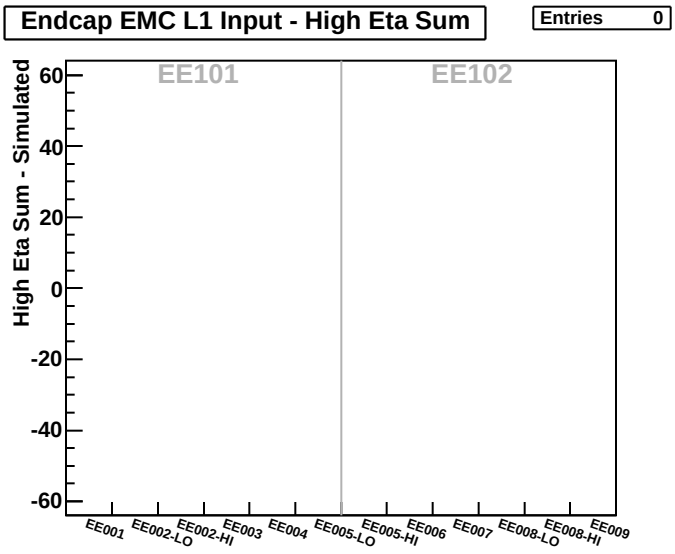

Barrel EMC L1 Input - High Tower Bits
Entries 906876
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

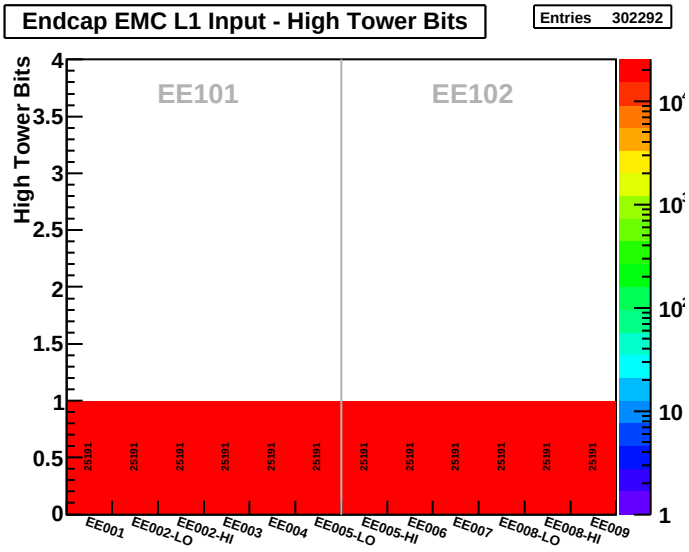

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

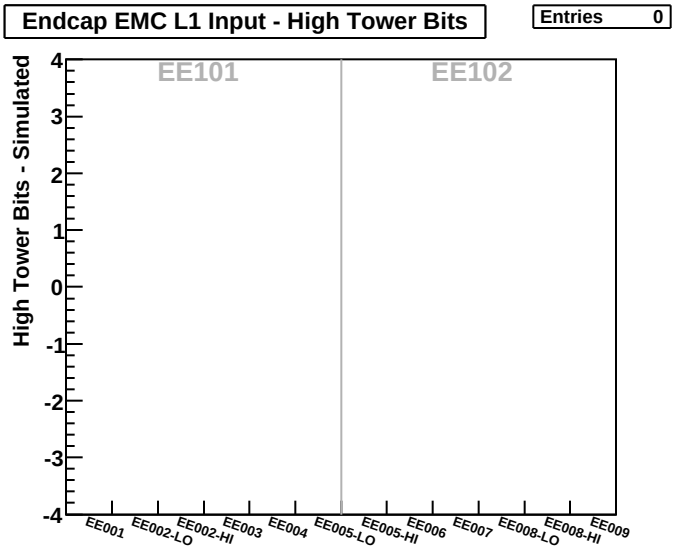

Endcap EMC L1 Input - Low Eta Sum
Entries 302292
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

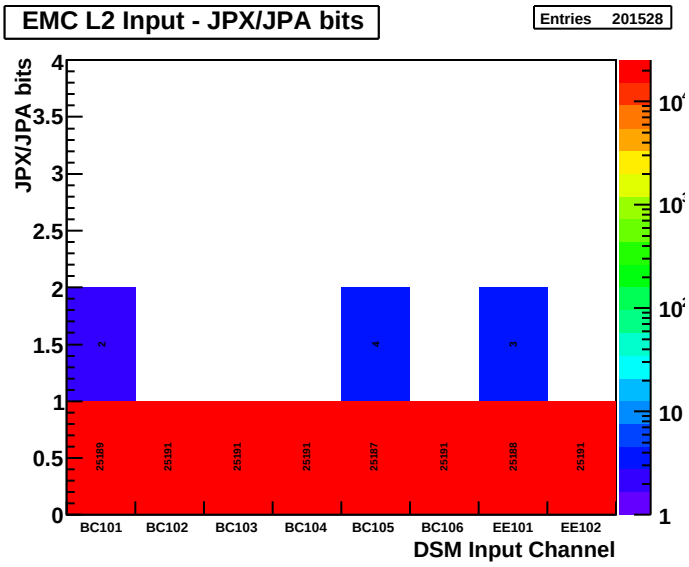

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

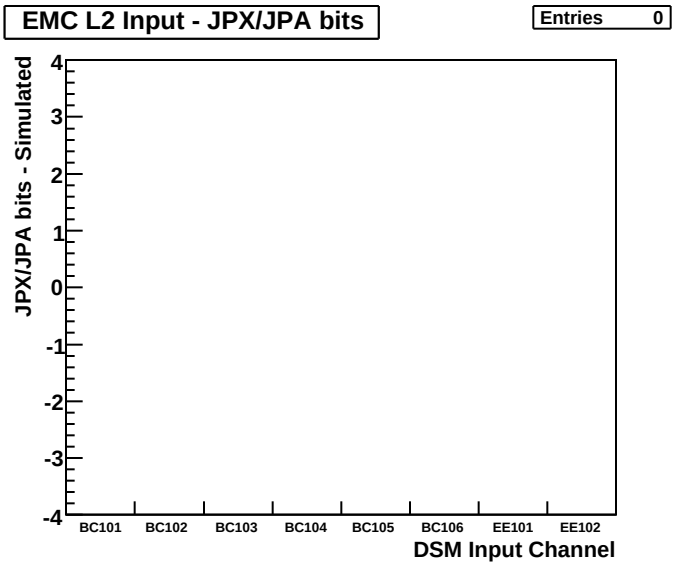

Endcap EMC L1 Input - High Eta Sum
Entries 302292
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

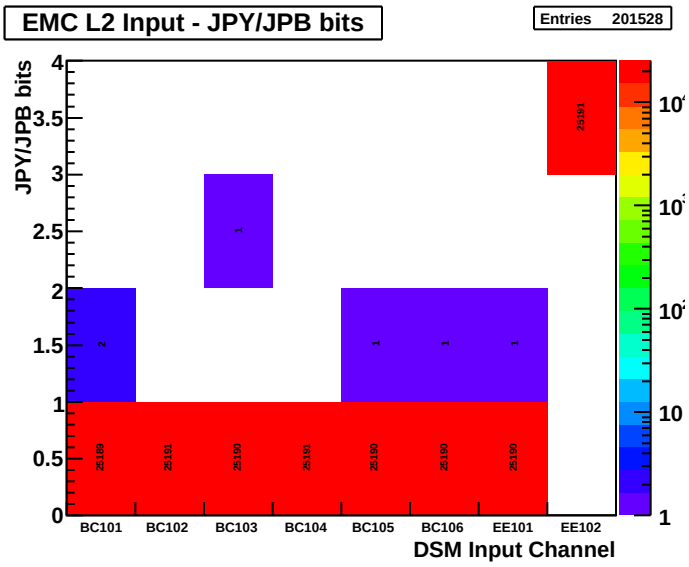

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

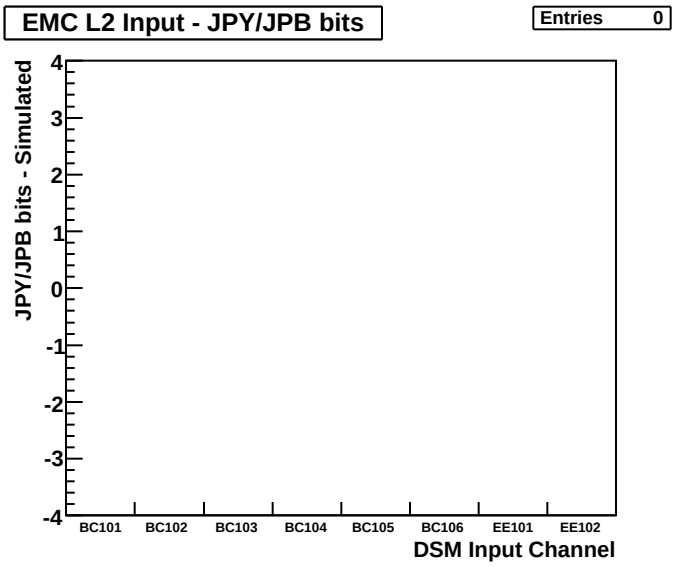

Endcap EMC L1 Input - High Tower Bits
Entries 302292
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

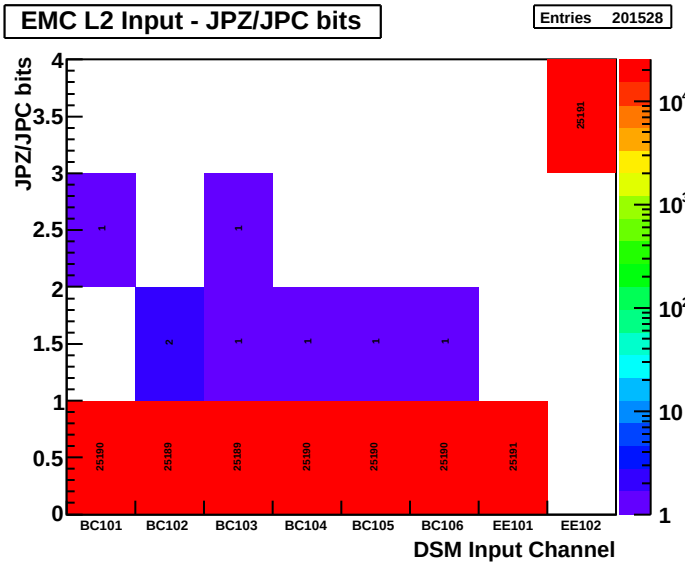

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

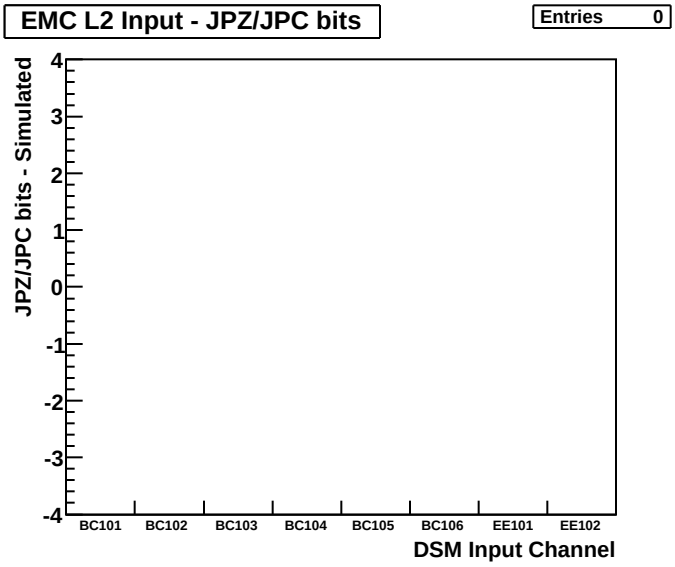

EMC L2 Input - JPX/JPA bits
Entries 201528
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

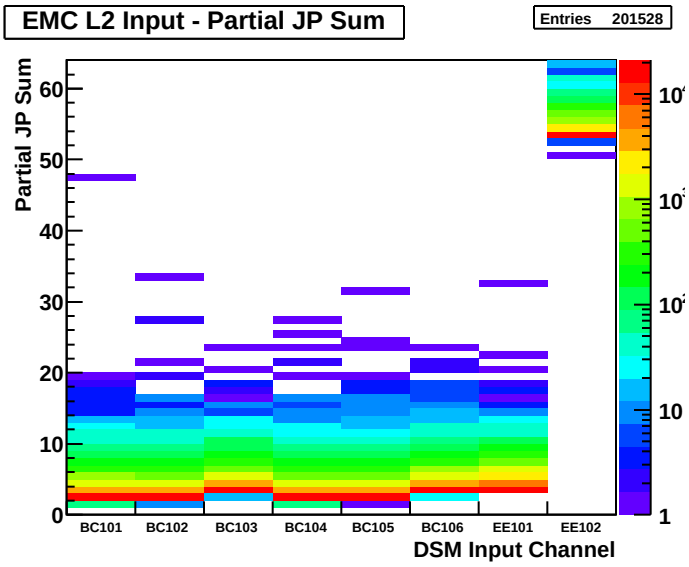

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

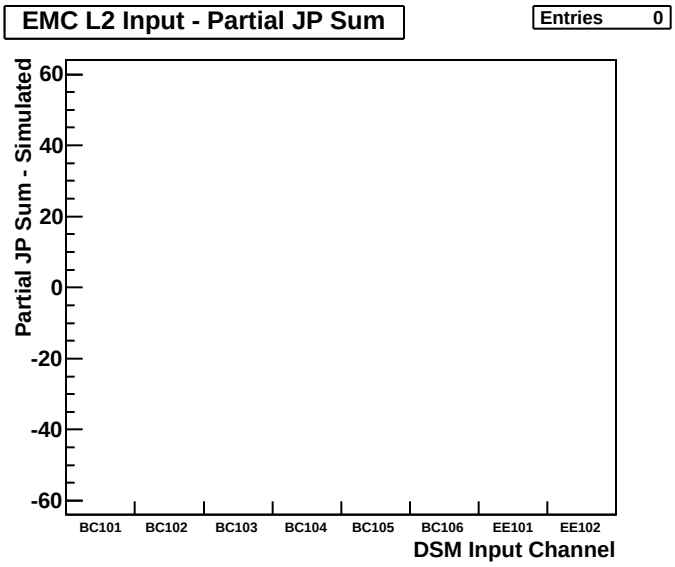

EMC L2 Input - JPY/JPB bits
Entries 201528
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

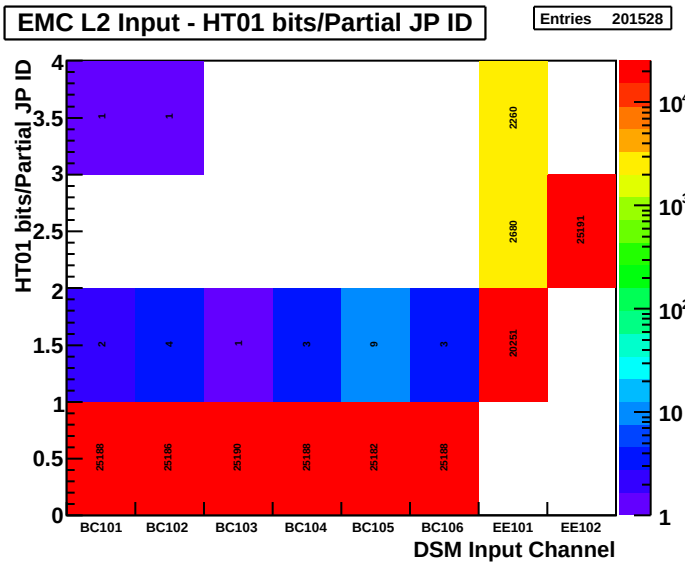

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

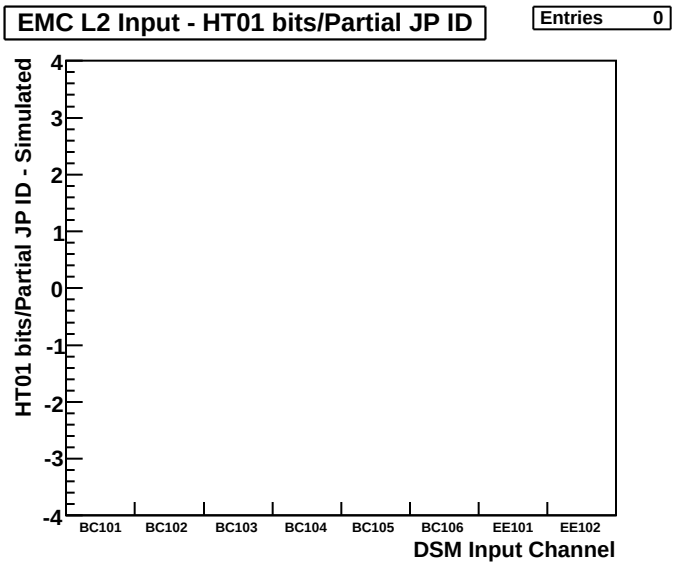

EMC L2 Input - JPZ/JPC bits
Entries 201528
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

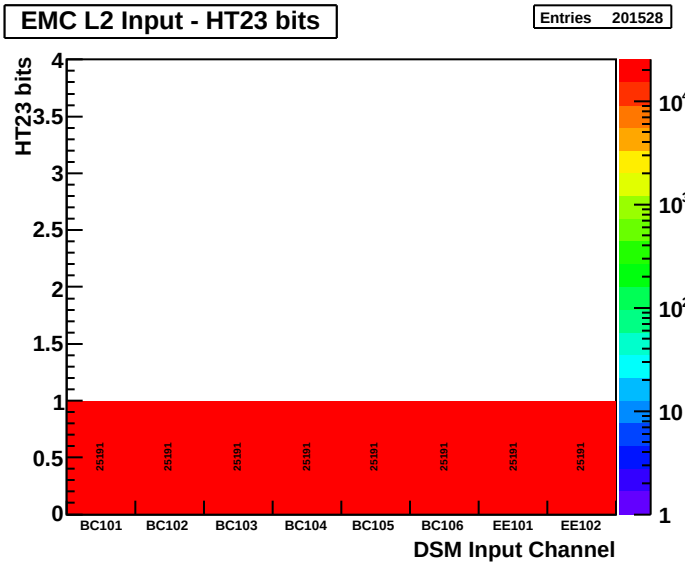

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

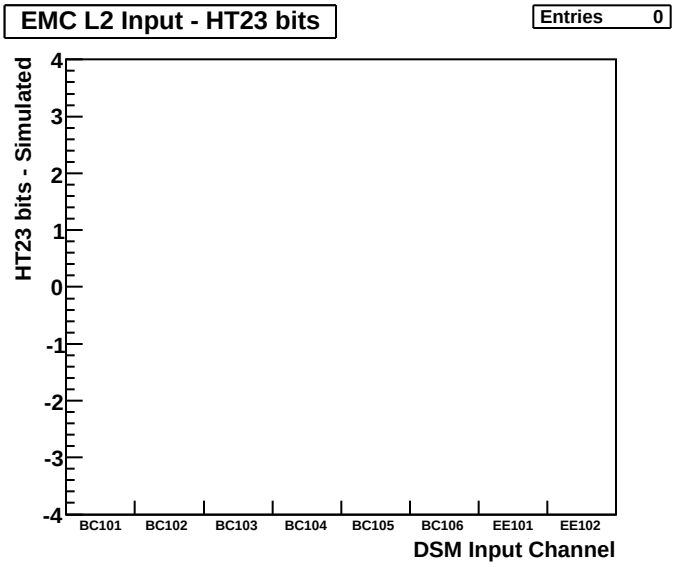

EMC L2 Input - Partial JP Sum
Entries 201528
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

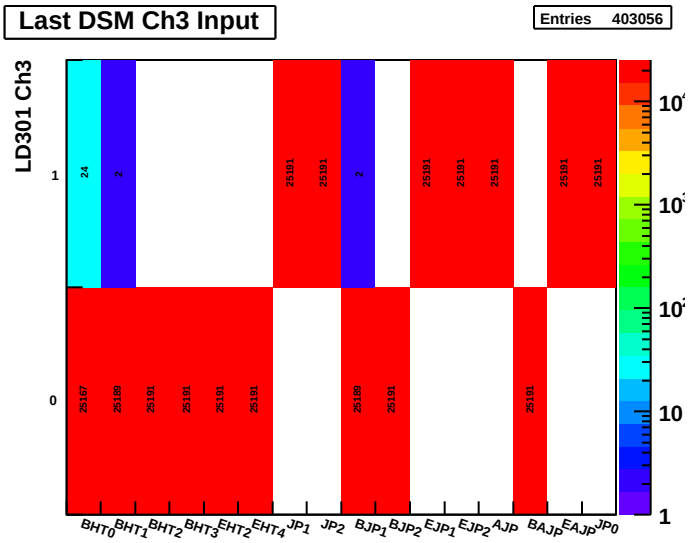

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

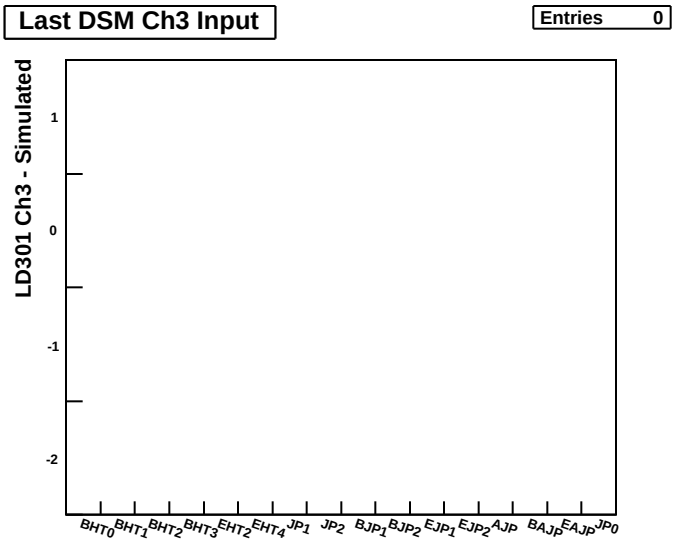

EMC L2 Input - HT01 bits/Partial JP ID
Entries 201528
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

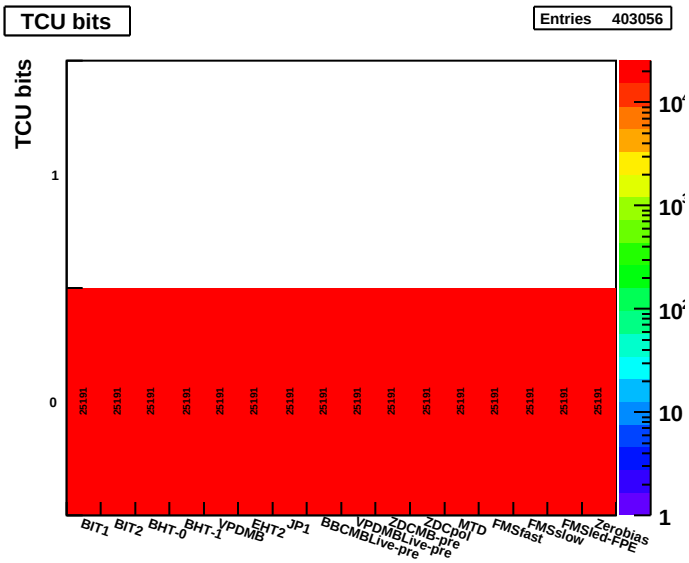

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

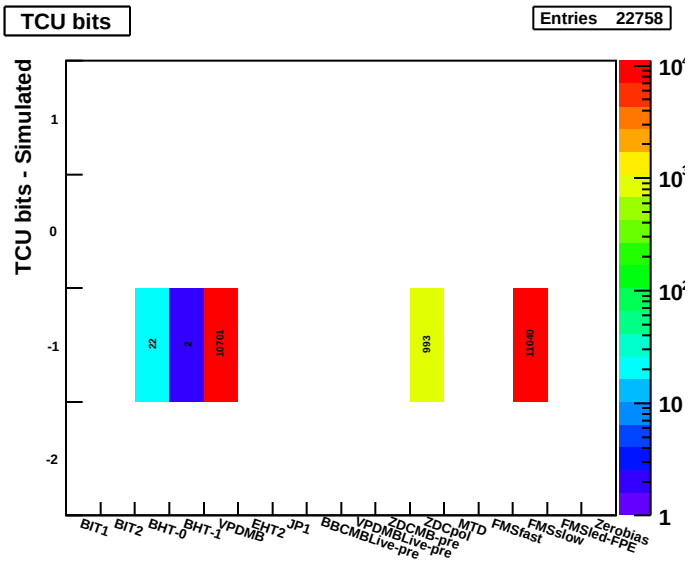

EMC L2 Input - HT23 bits
Entries 201528
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

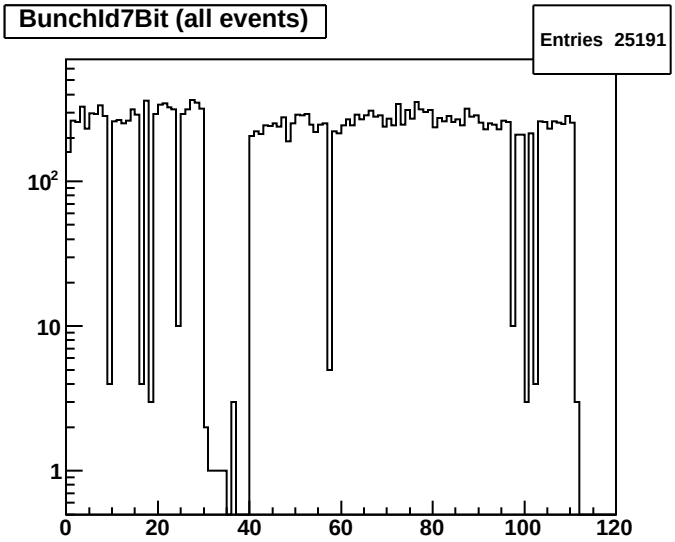

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

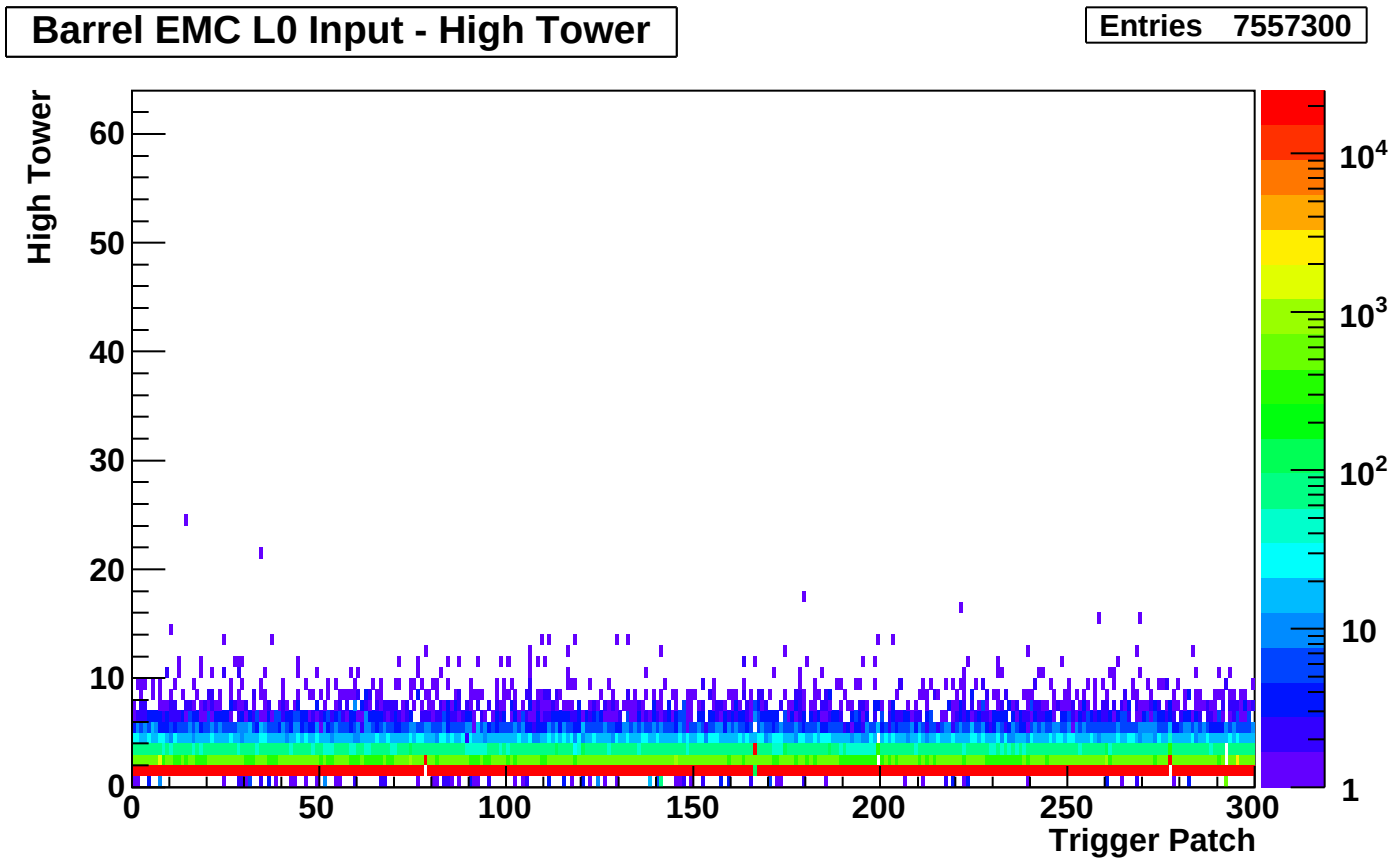

Last DSM Ch3 Input
Entries 403056
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

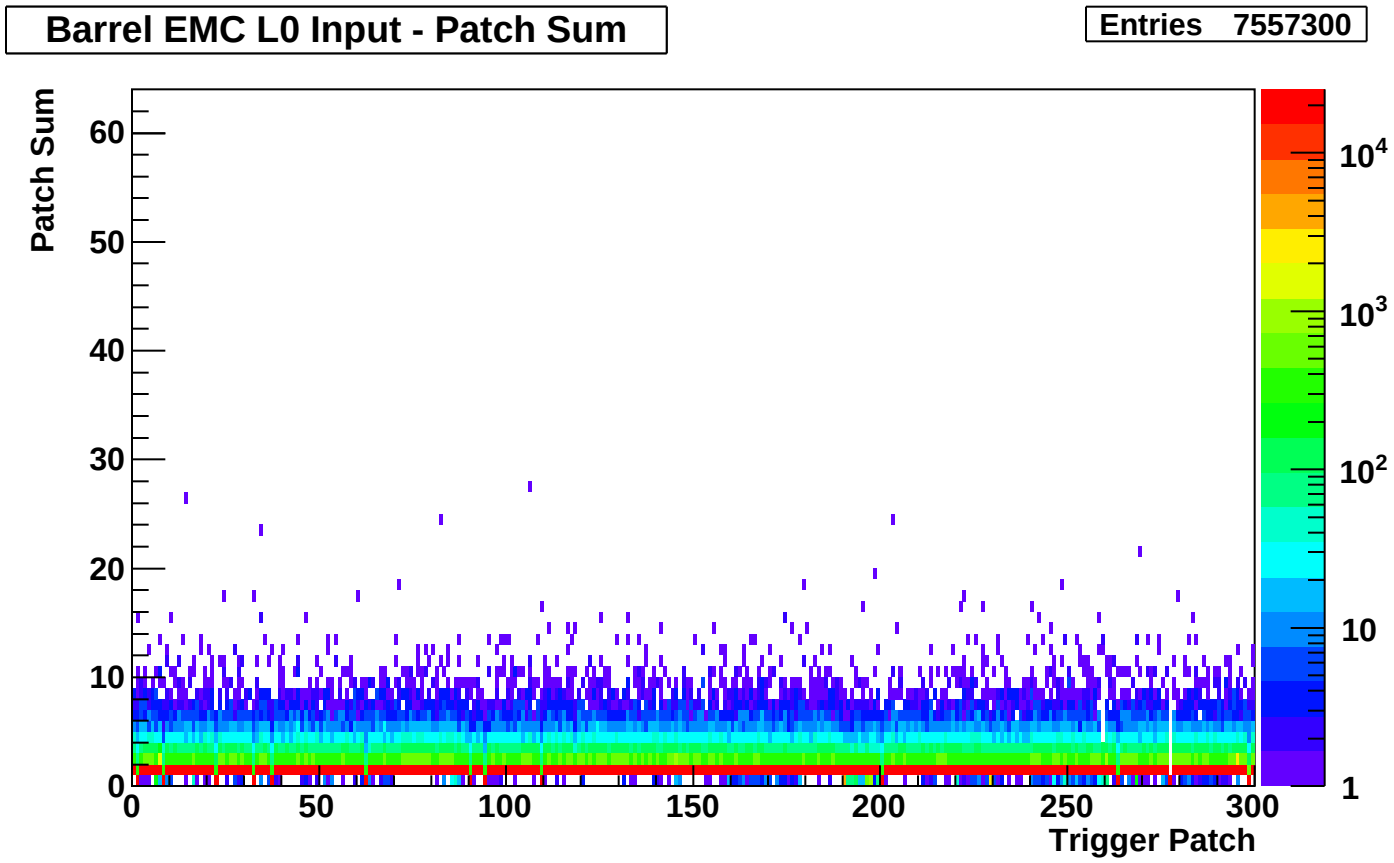

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

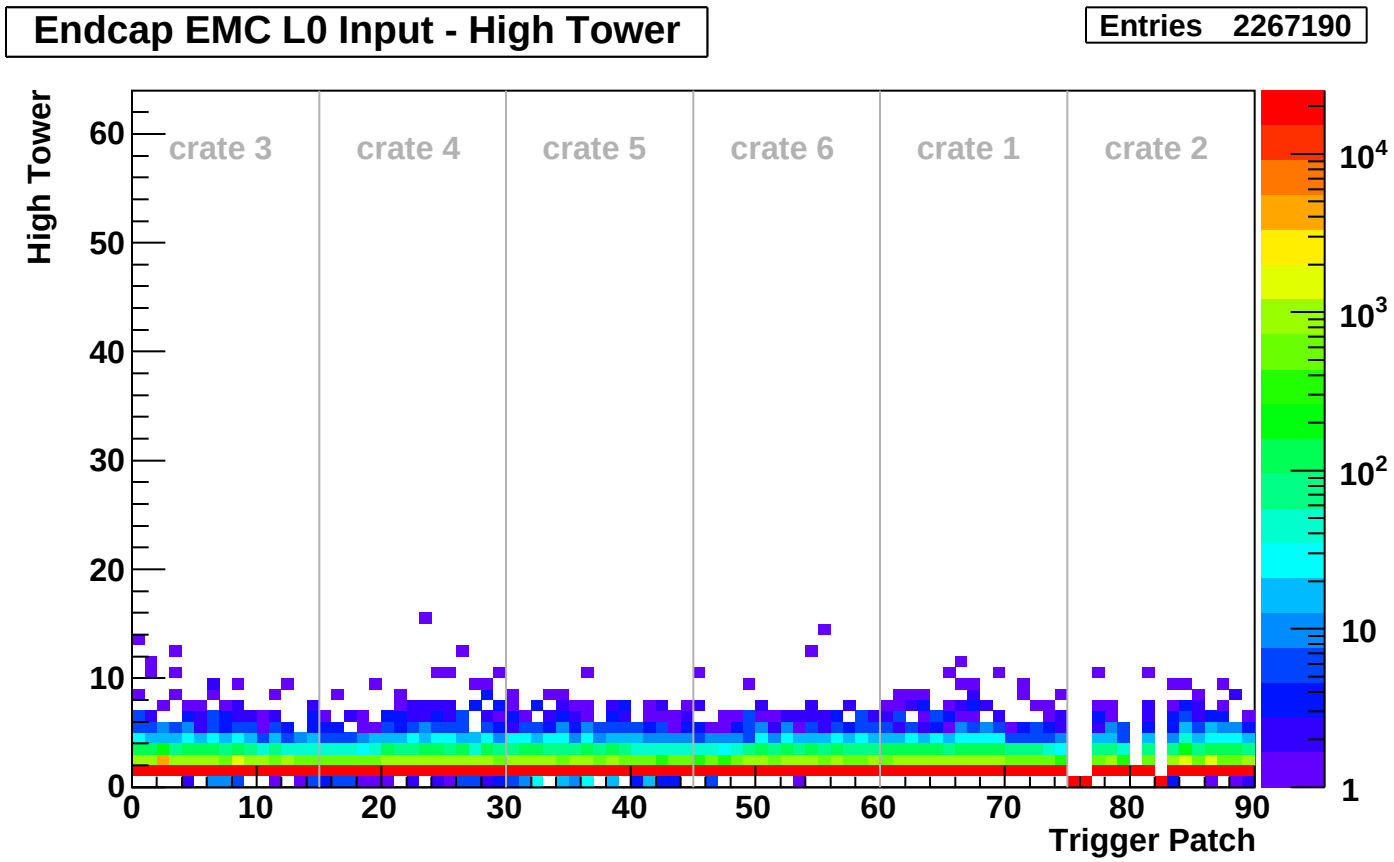

TCU bits
Entries 403056
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

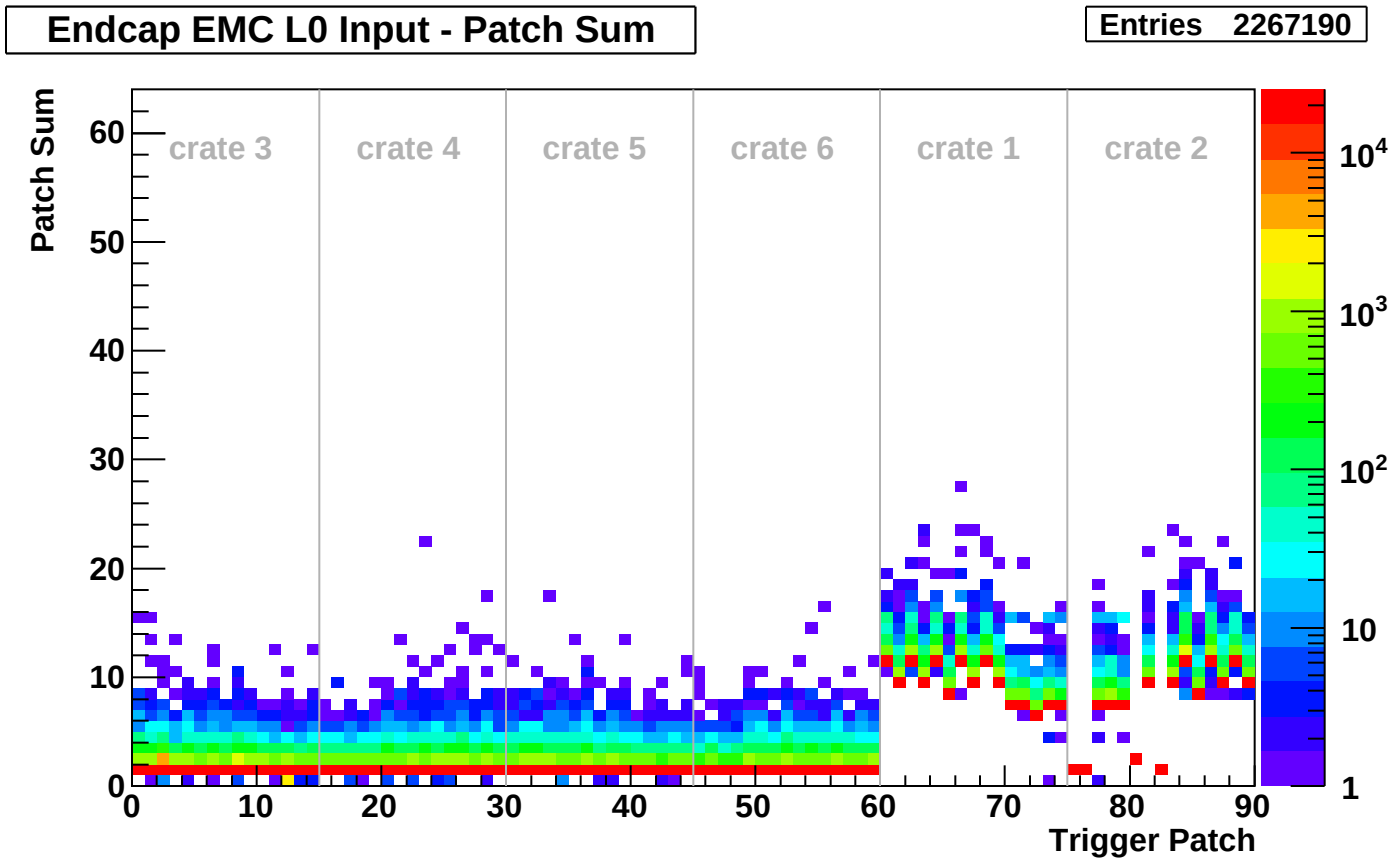

TCU bits
Entries 22758
TCU bits - Simulated
22
2
10701
993
11040
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

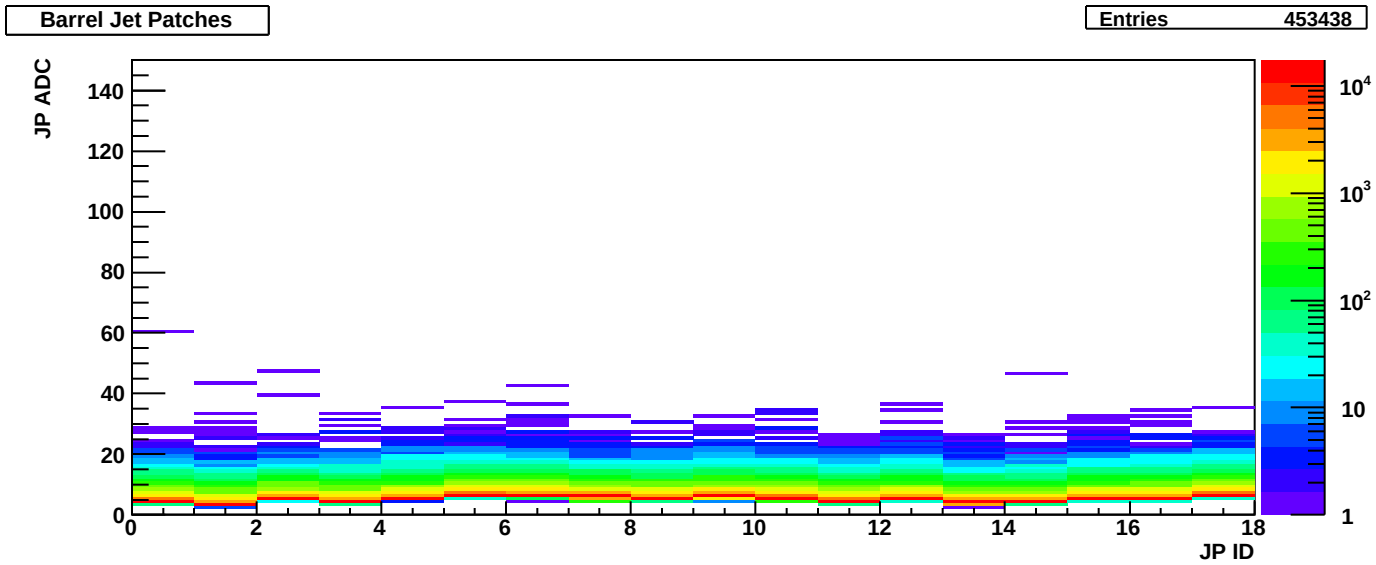

BunchId7Bit (all events)
Entries 25191

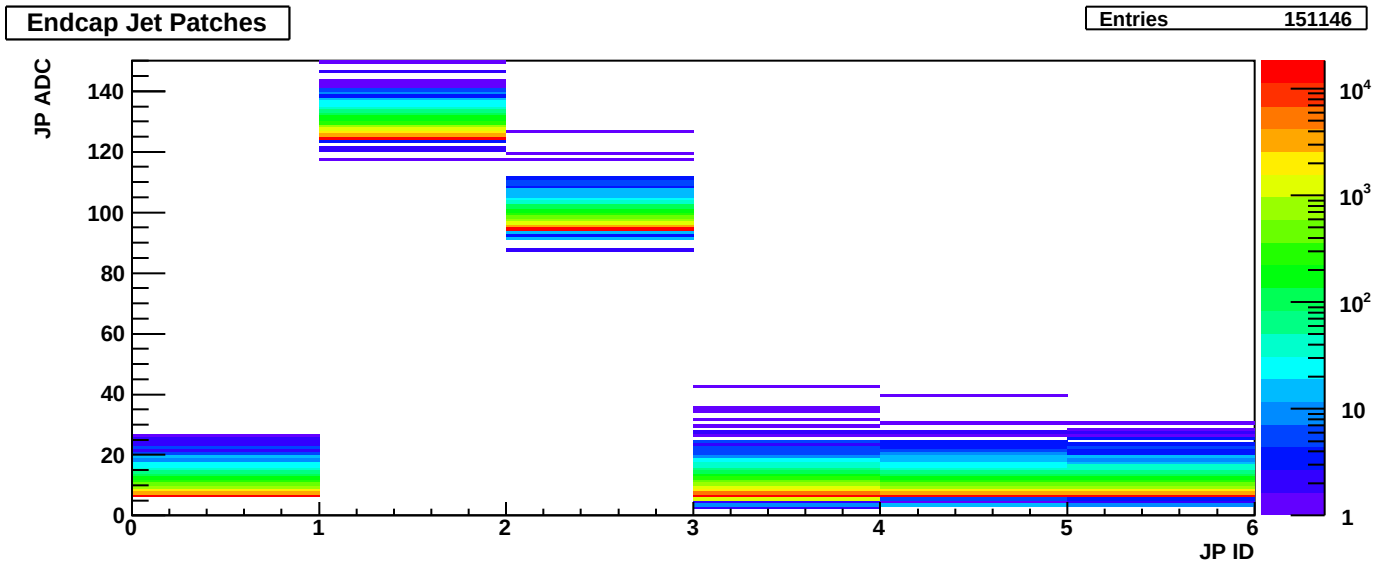

Barrel EMC L0 Input - High Tower
Entries 7557300
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

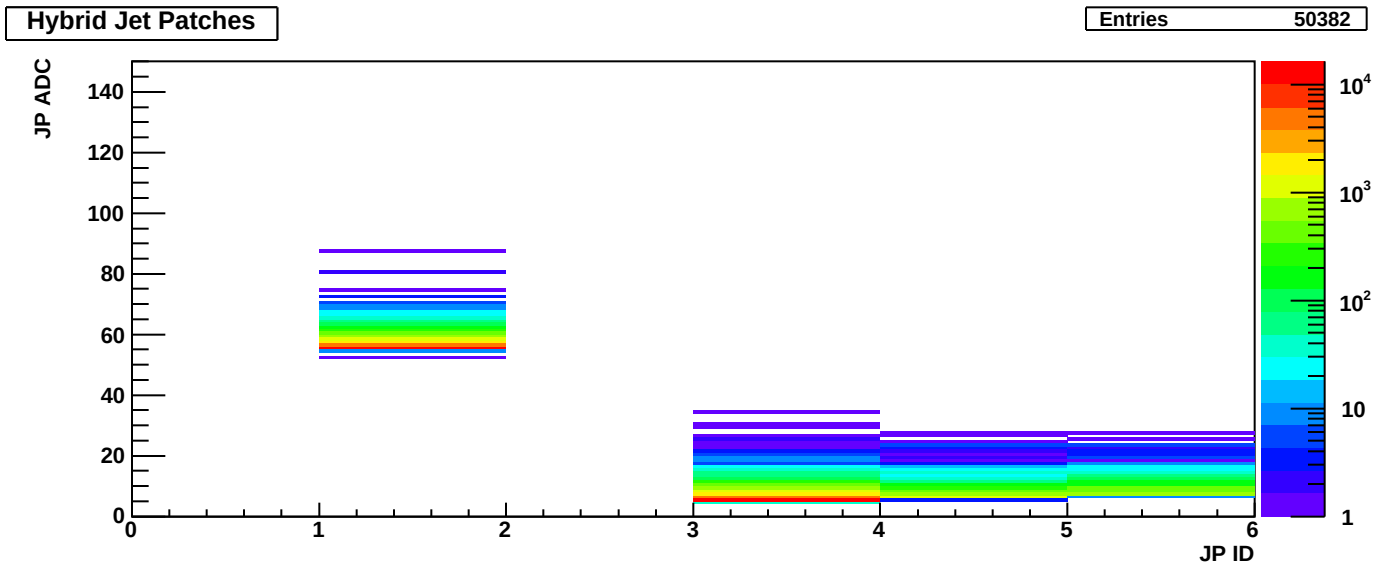

Barrel EMC L0 Input - Patch Sum
Entries 7557300
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

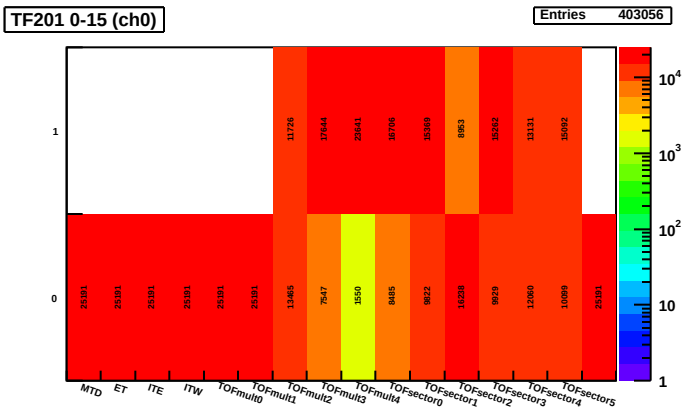

Endcap EMC L0 Input - High Tower
Entries 2267190
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

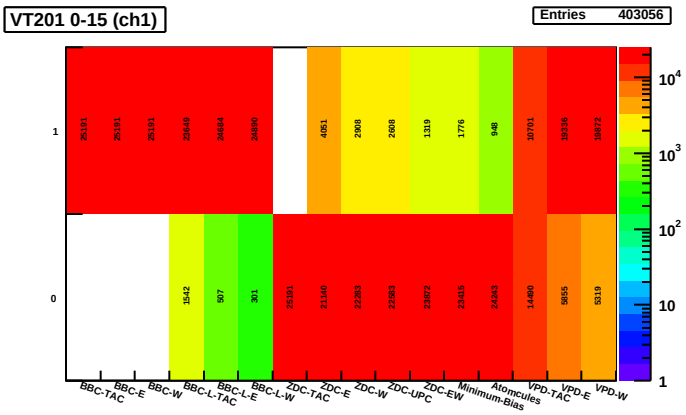

Endcap EMC L0 Input - Patch Sum
Entries 2267190
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

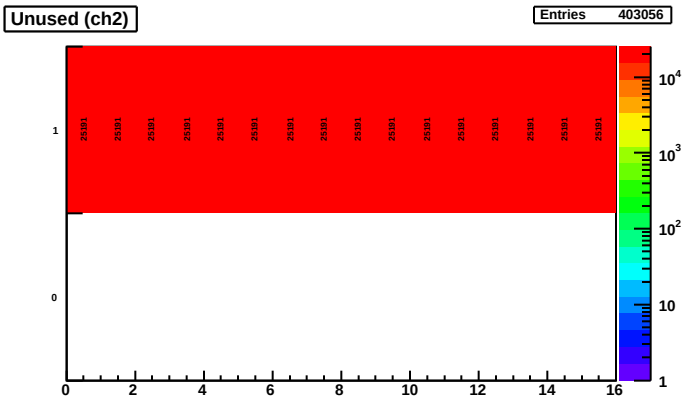

Barrel Jet Patches
Entries 453438
JP ADC
JP ID

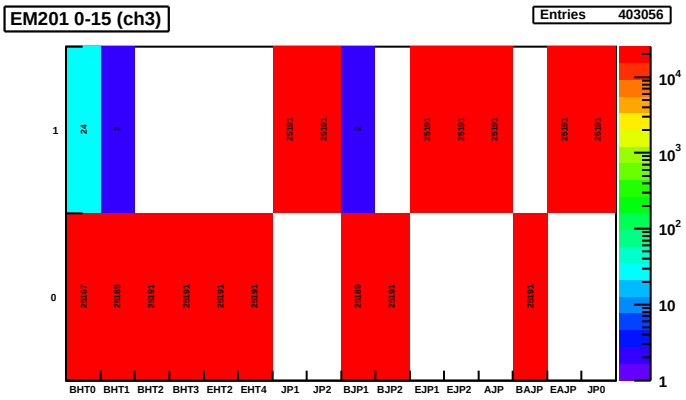

Endcap Jet Patches
Entries 151146
JP ADC
JP ID

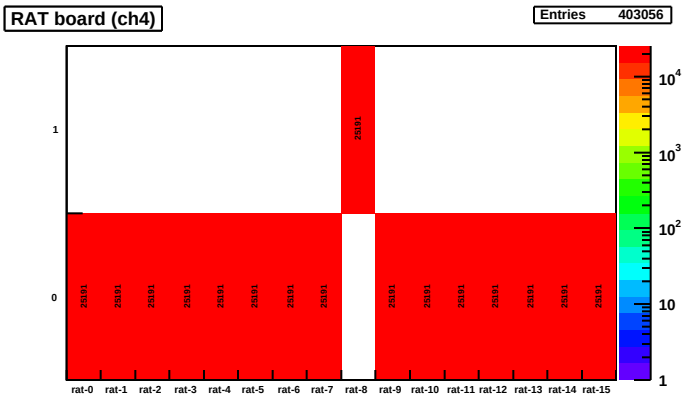

Hybrid Jet Patches
Entries 50382
JP ADC
JP ID

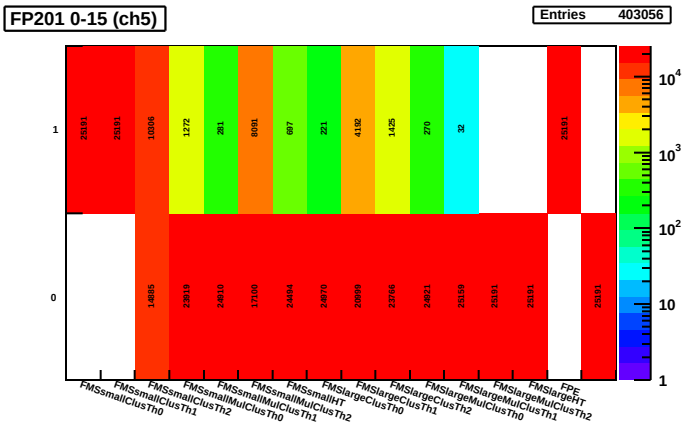

TF201 0-15 (ch0)
Entries 403056
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

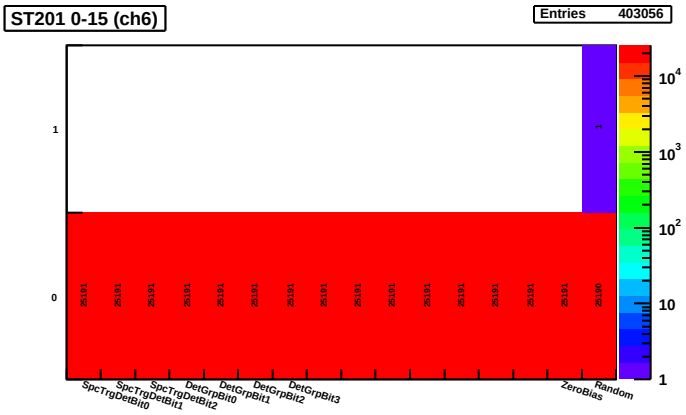

VT201 0-15 (ch1)
Entries 403056
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

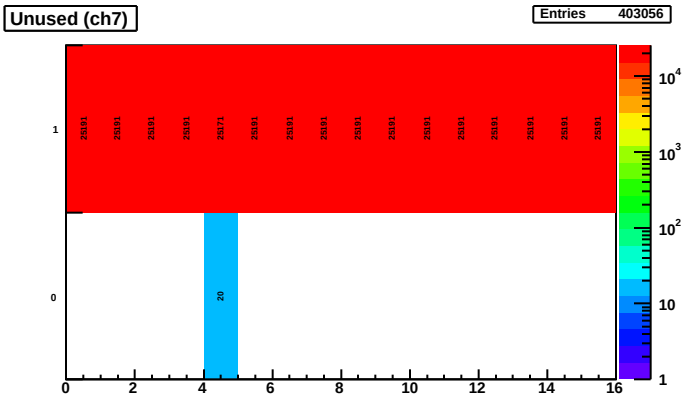

Unused (ch2)
Entries 403056

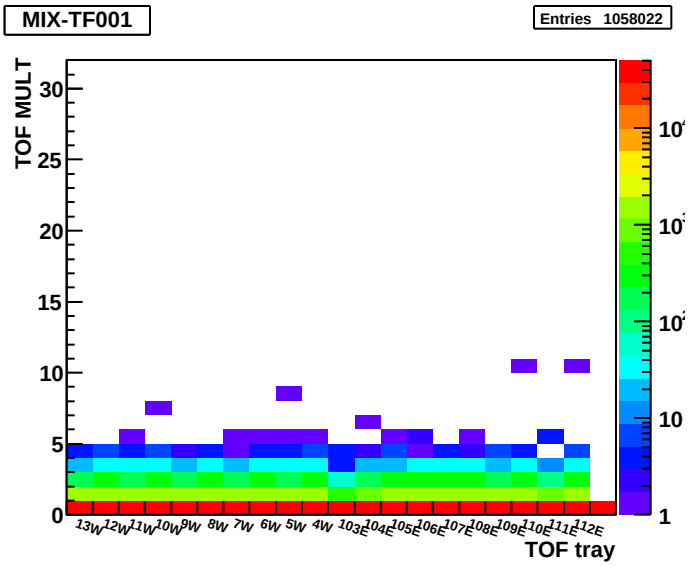

EM201 0-15 (ch3)
Entries 403056
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

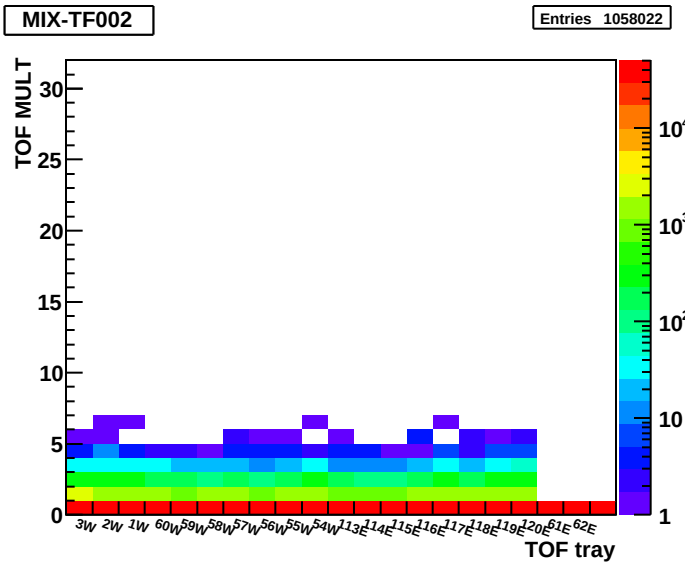

RAT board (ch4)
Entries 403056
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

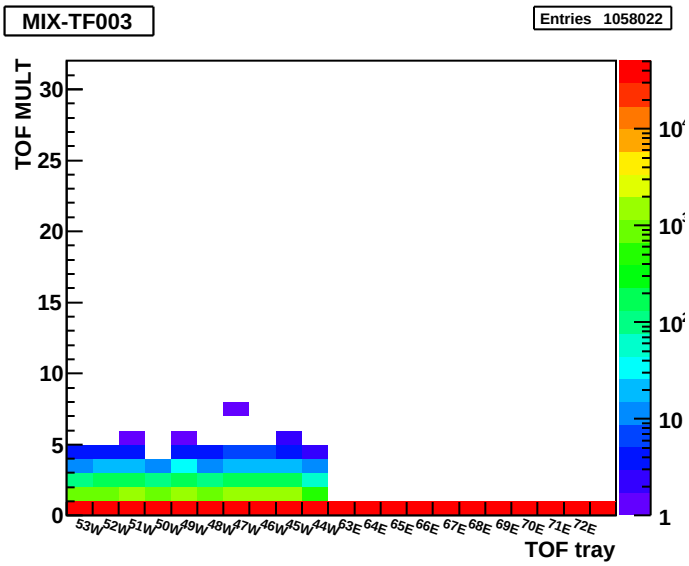

FP201 0-15 (ch5)
Entries 403056
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

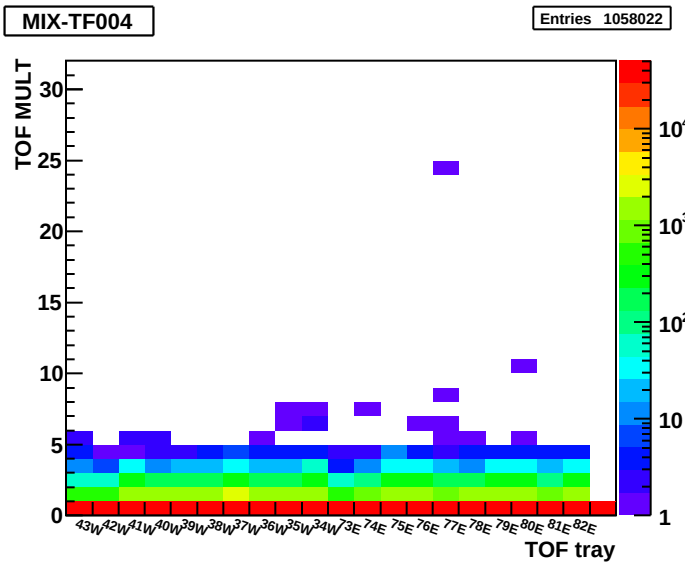

ST201 0-15 (ch6)
Entries 403056
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random

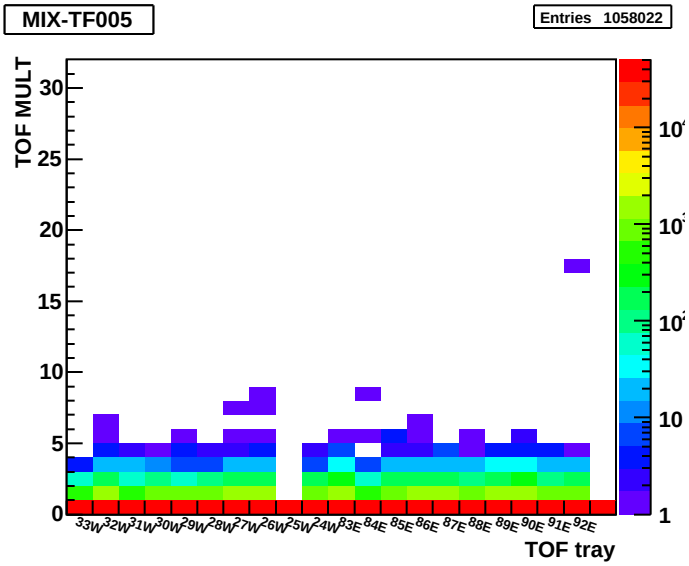

Unused (ch7)
Entries 403056

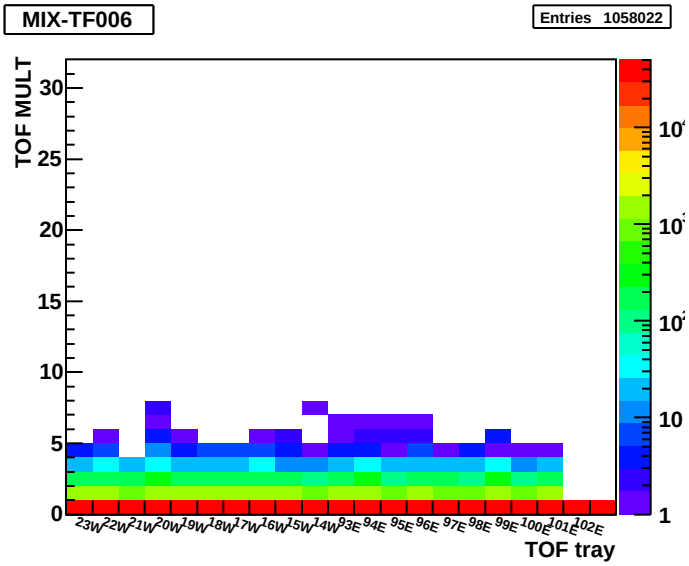

MIX-TF001
Entries 1058022
TOF MULT
TOF tray

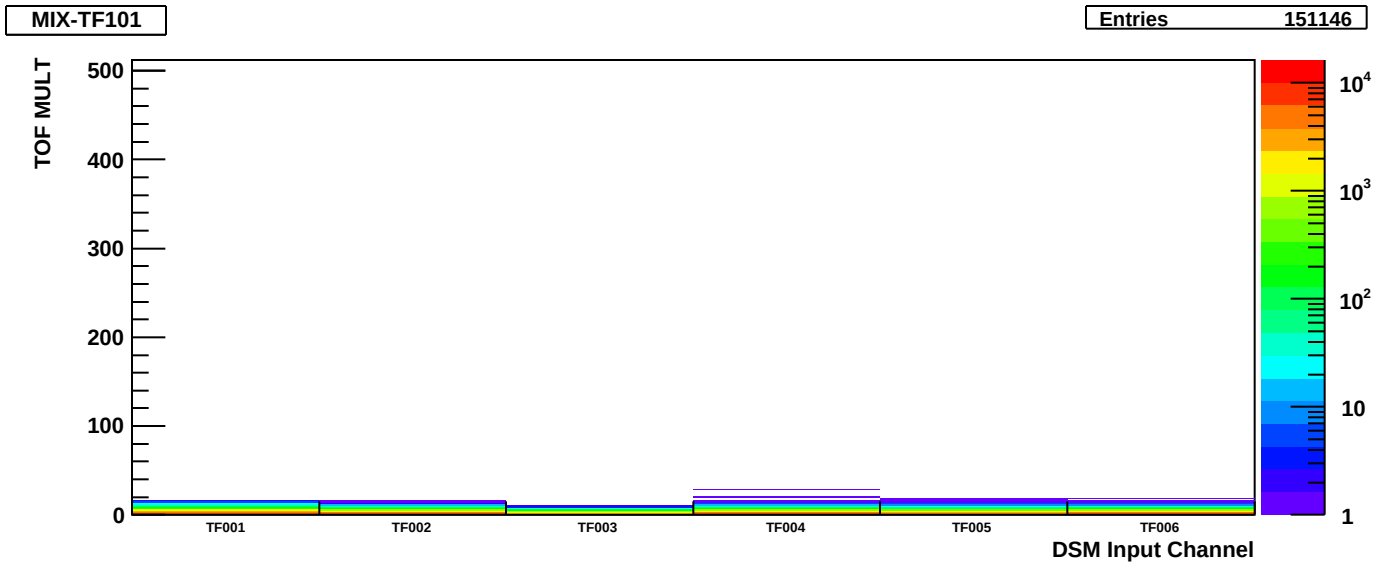

MIX-TF002
Entries 1058022
TOF MULT
TOF tray

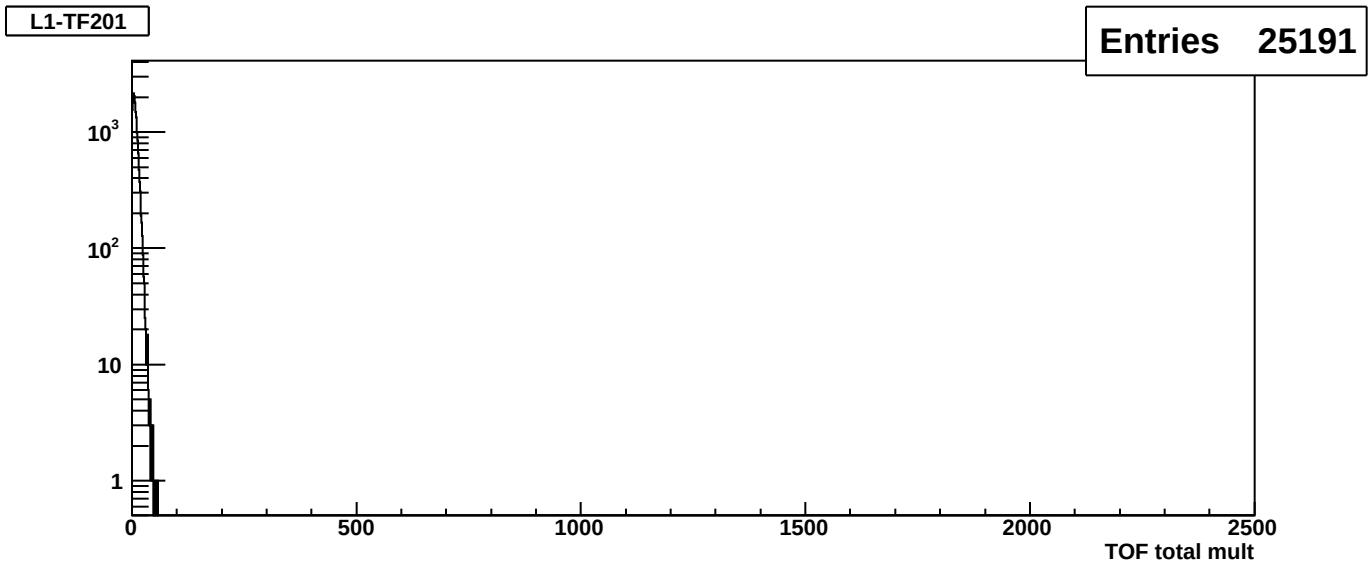

MIX-TF003
Entries 1058022
TOF MULT
TOF tray

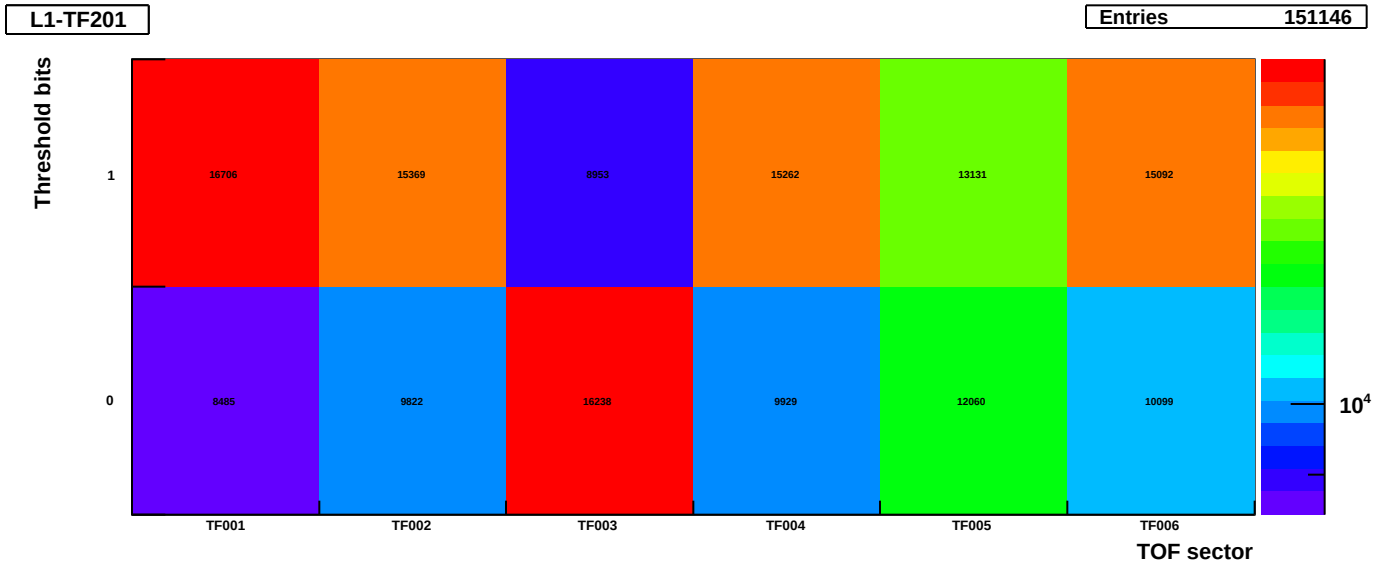

MIX-TF004
Entries 1058022
TOF MULT
TOF tray

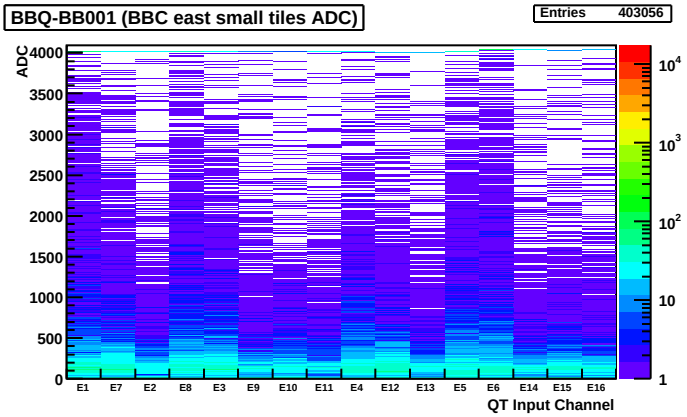

MIX-TF005
Entries 1058022
TOF MULT
TOF tray

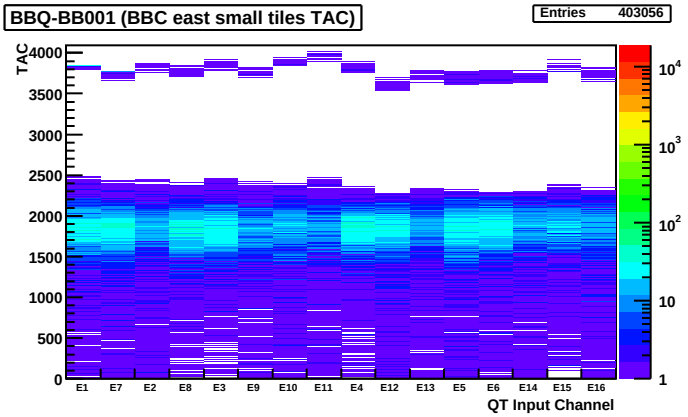

MIX-TF006
Entries 1058022
TOF MULT
TOF tray

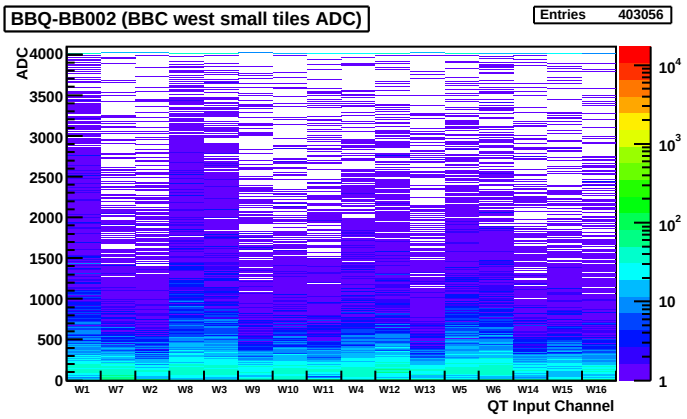

MIX-TF101
Entries 151146
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

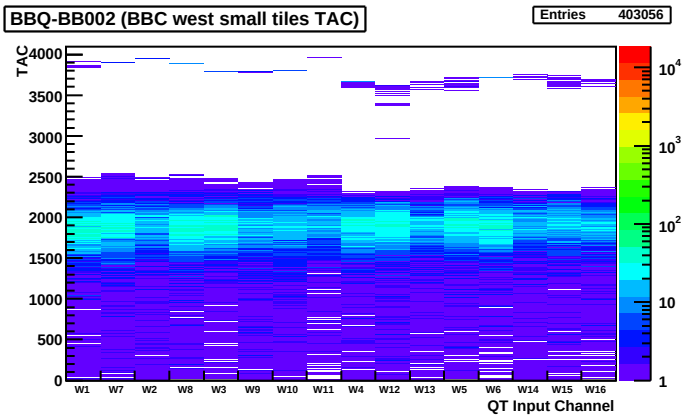

L1-TF201
Entries 25191
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

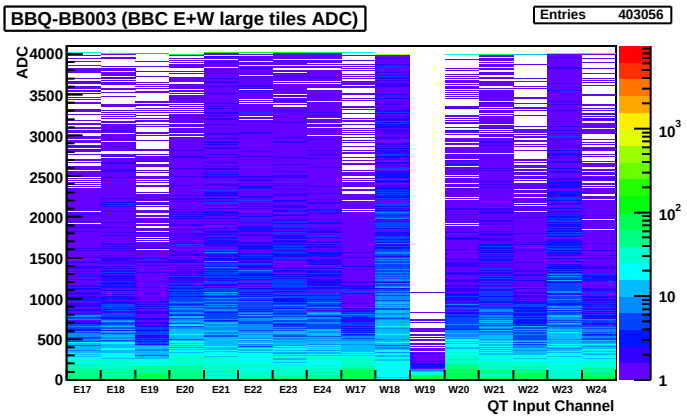

L1-TF201
Entries 151146
Threshold bits
1
0
16706
15369
8953
15262
13131
15092
8485
9822
16238
9929
12060
10099
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4

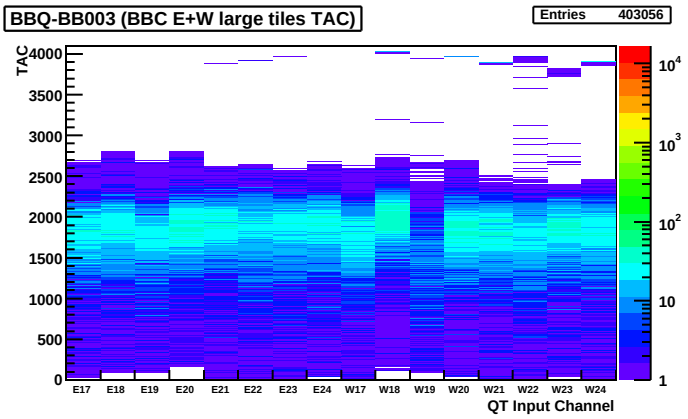

BBQ-BB001 (BBC east small tiles ADC)
Entries 403056
ADC
QT Input Channel

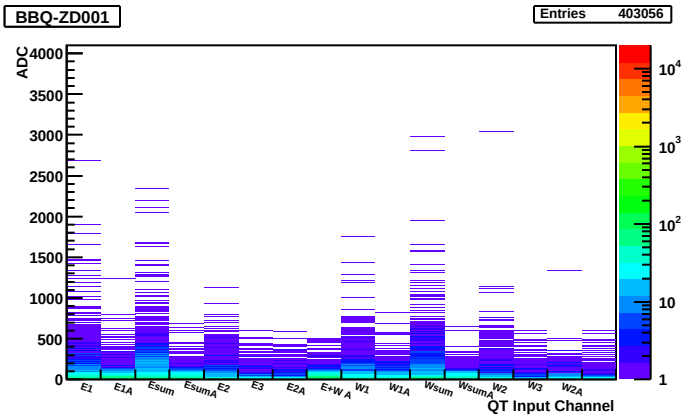

BBQ-BB001 (BBC east small tiles TAC)
Entries 403056
TAC
QT Input Channel

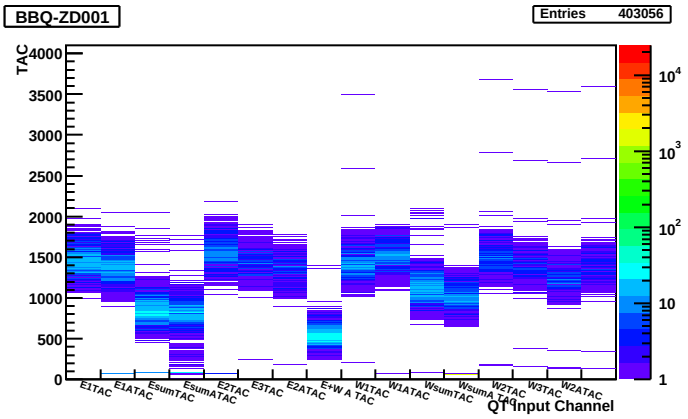

BBQ-BB002 (BBC west small tiles ADC)
Entries 403056
ADC
QT Input Channel

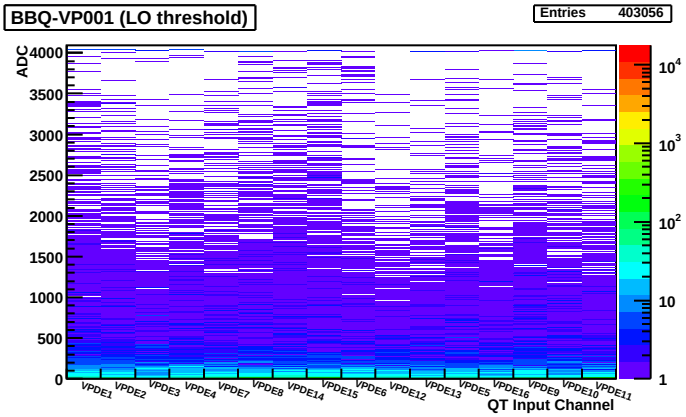

BBQ-BB002 (BBC west small tiles TAC)
Entries 403056
TAC
QT Input Channel

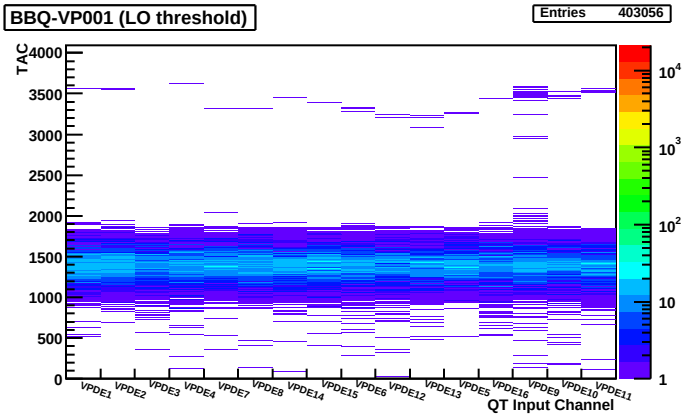

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 403056
ADC
QT Input Channel

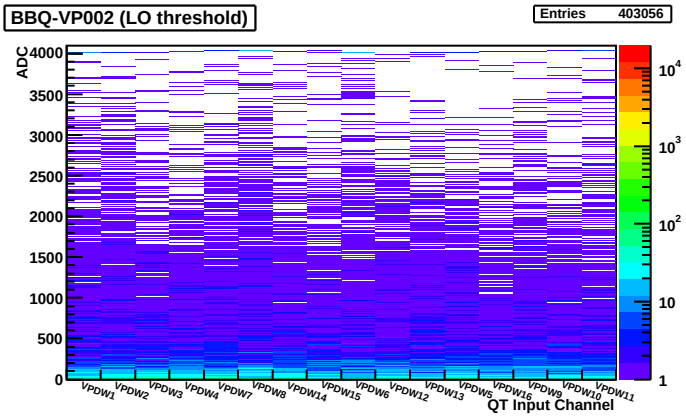

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 403056
TAC
QT Input Channel

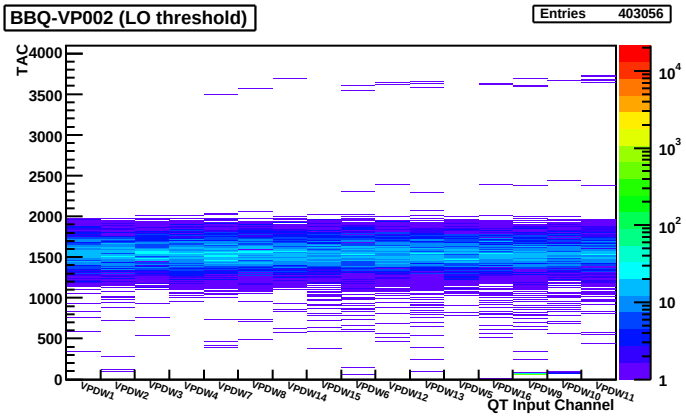

BBQ-ZD001
Entries 403056
ADC
QT Input Channel

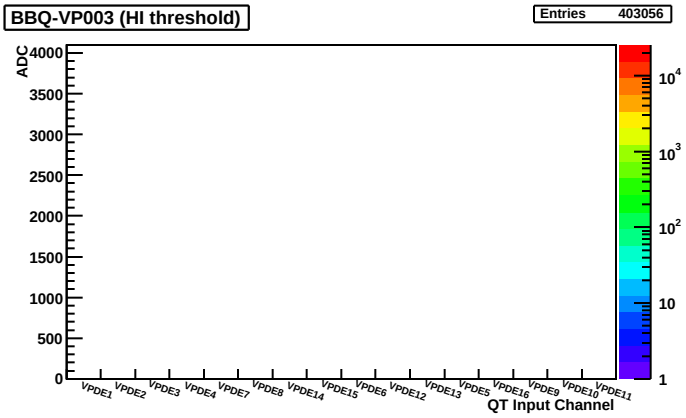

BBQ-ZD001
Entries 403056
TAC
QT Input Channel

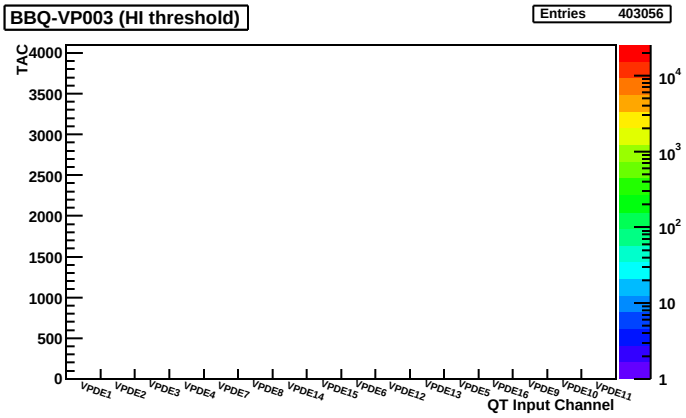

BBQ-VP001 (LO threshold)
Entries 403056
ADC
QT Input Channel

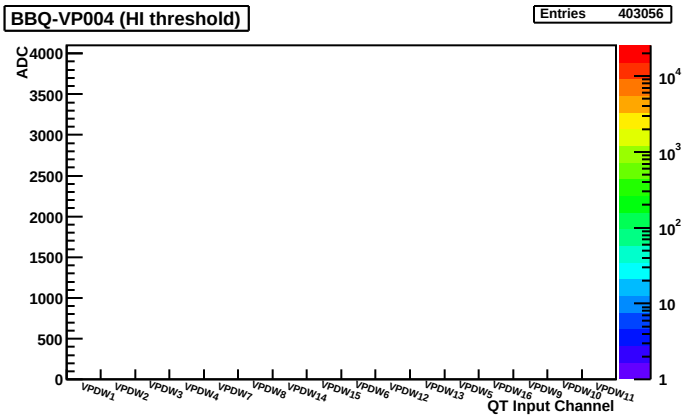

BBQ-VP001 (LO threshold)
Entries 403056
TAC
QT Input Channel

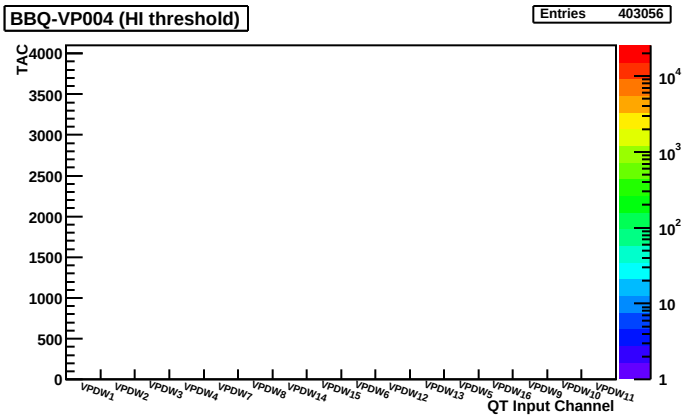

BBQ-VP002 (LO threshold)
Entries 403056
ADC
QT Input Channel

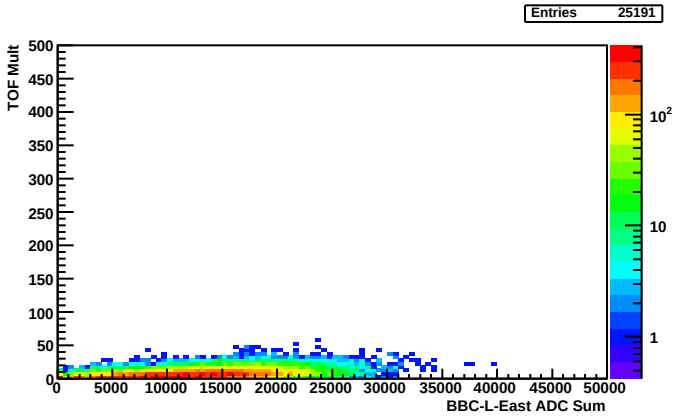

BBQ-VP002 (LO threshold)
Entries 403056
TAC
QT Input Channel

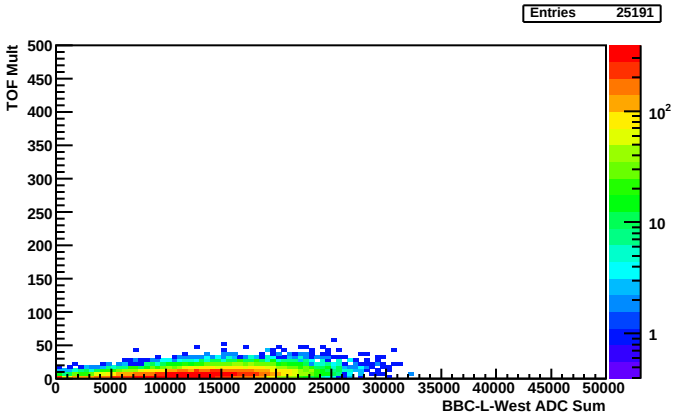

BBQ-VP003 (HI threshold)
Entries 403056
ADC
QT Input Channel

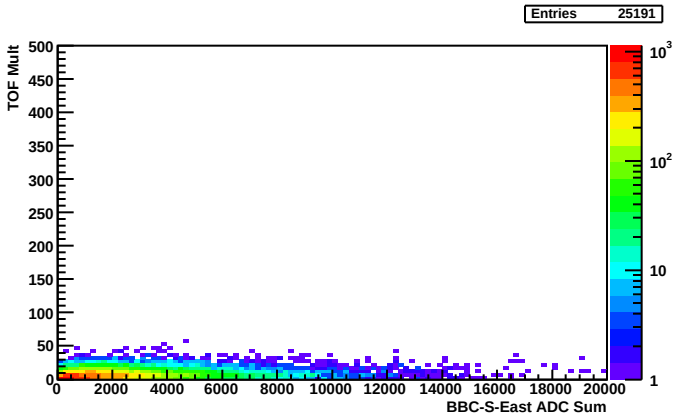

BBQ-VP003 (HI threshold)
Entries 403056
TAC
QT Input Channel

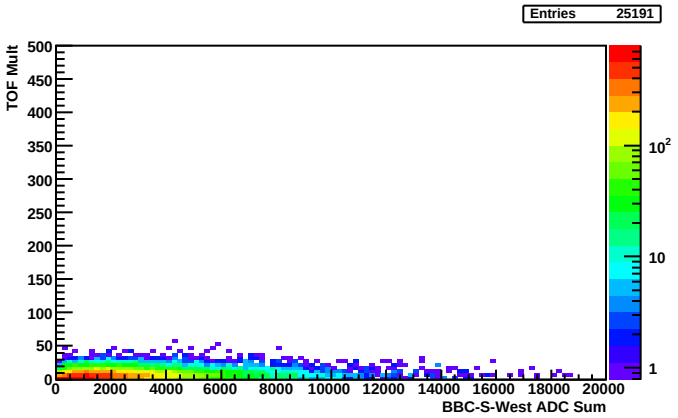

BBQ-VP004 (HI threshold)
Entries 403056
ADC
QT Input Channel

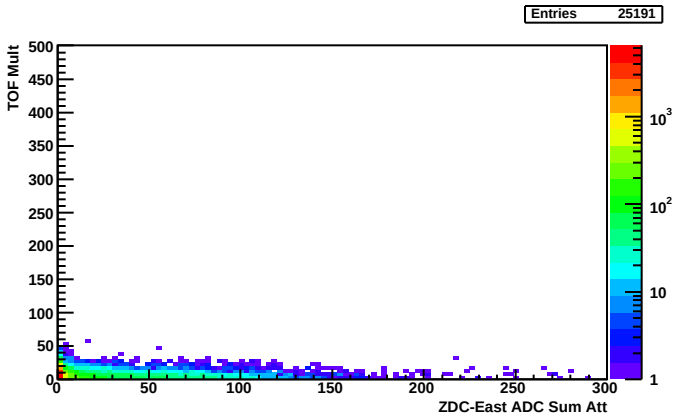

BBQ-VP004 (HI threshold)
Entries 403056
TAC
QT Input Channel

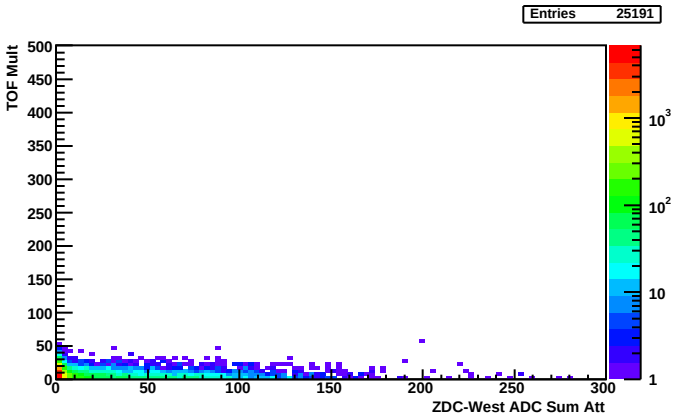

Entries 25191
TOF Mult
BBC-L-East ADC Sum

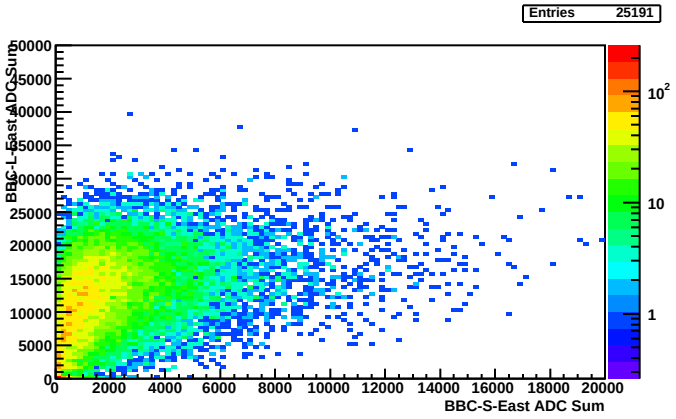

Entries 25191
TOF Mult
BBC-L-West ADC Sum

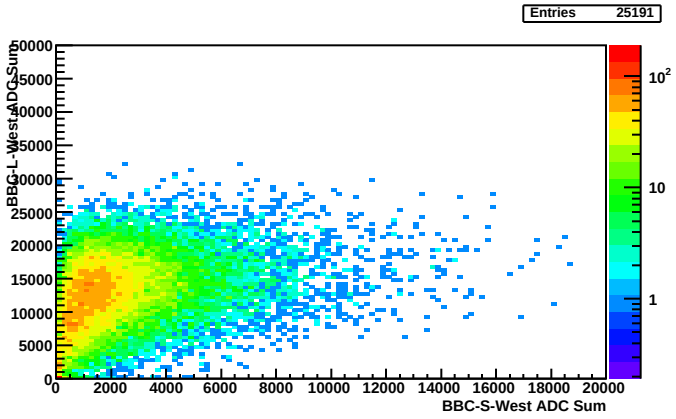

Entries 25191
TOF Mult
BBC-S-East ADC Sum

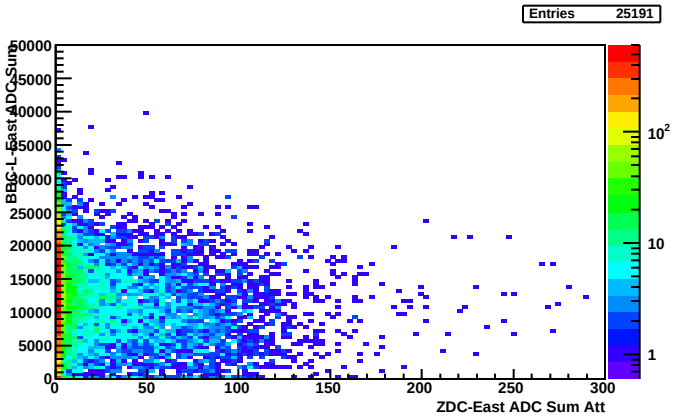

Entries 25191
TOF Mult
BBC-S-West ADC Sum

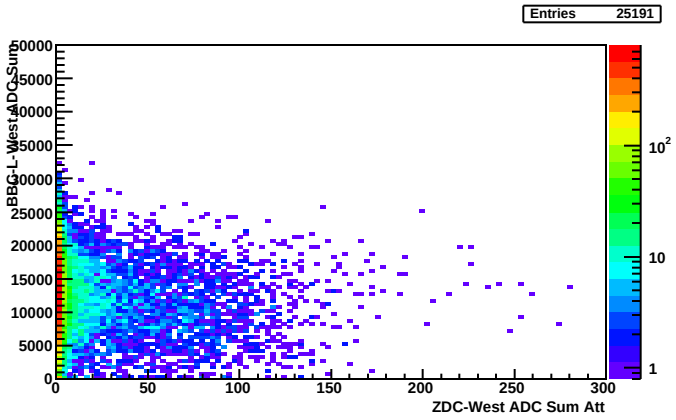

Entries 25191
TOF Mult
ZDC-East ADC Sum Att

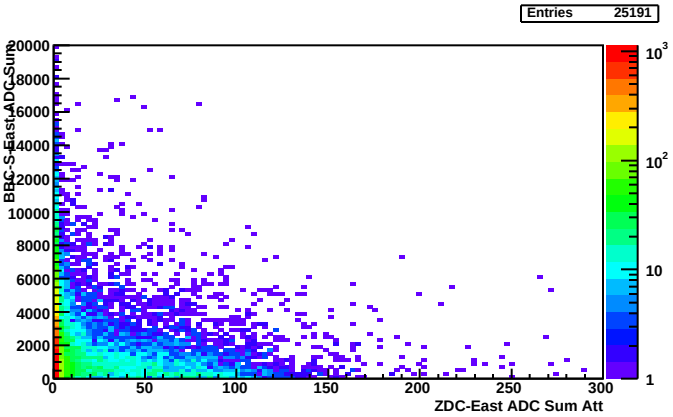

Entries 25191
TOF Mult
ZDC-West ADC Sum Att

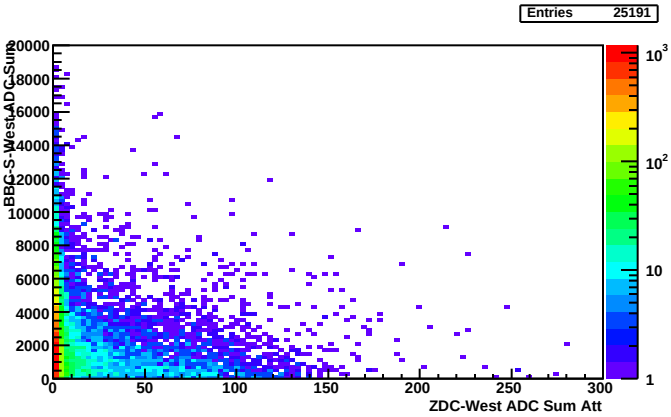

Entries 25191
BBC-L-East ADC Sum
BBC-S-East ADC Sum

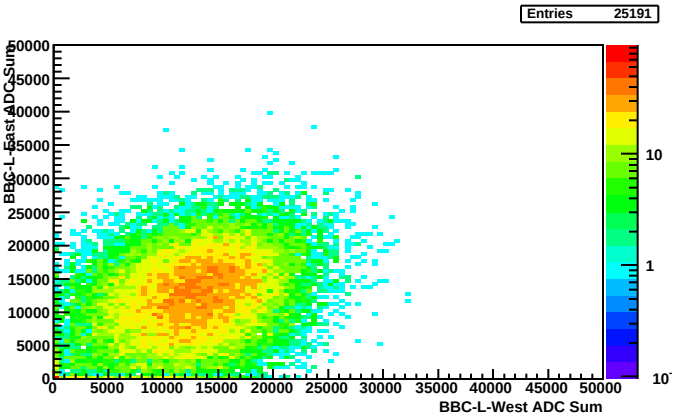

Entries 25191
BBC-L-West ADC Sum
BBC-S-West ADC Sum

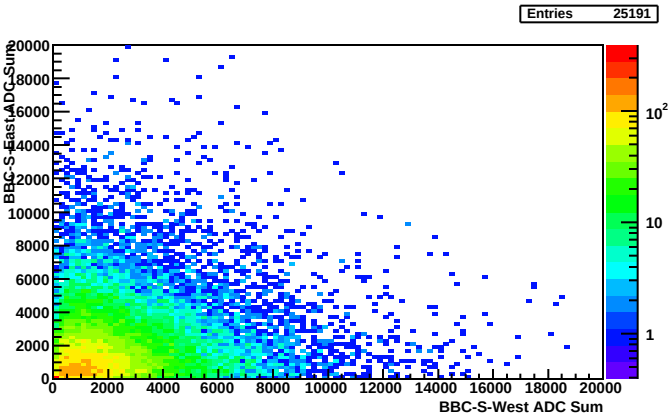

Entries 25191
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

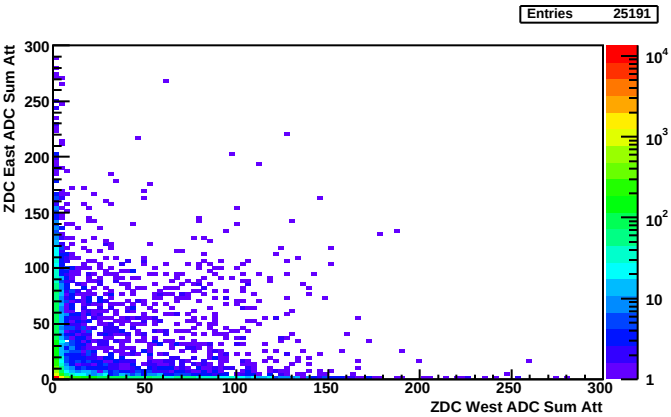

Entries 25191
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

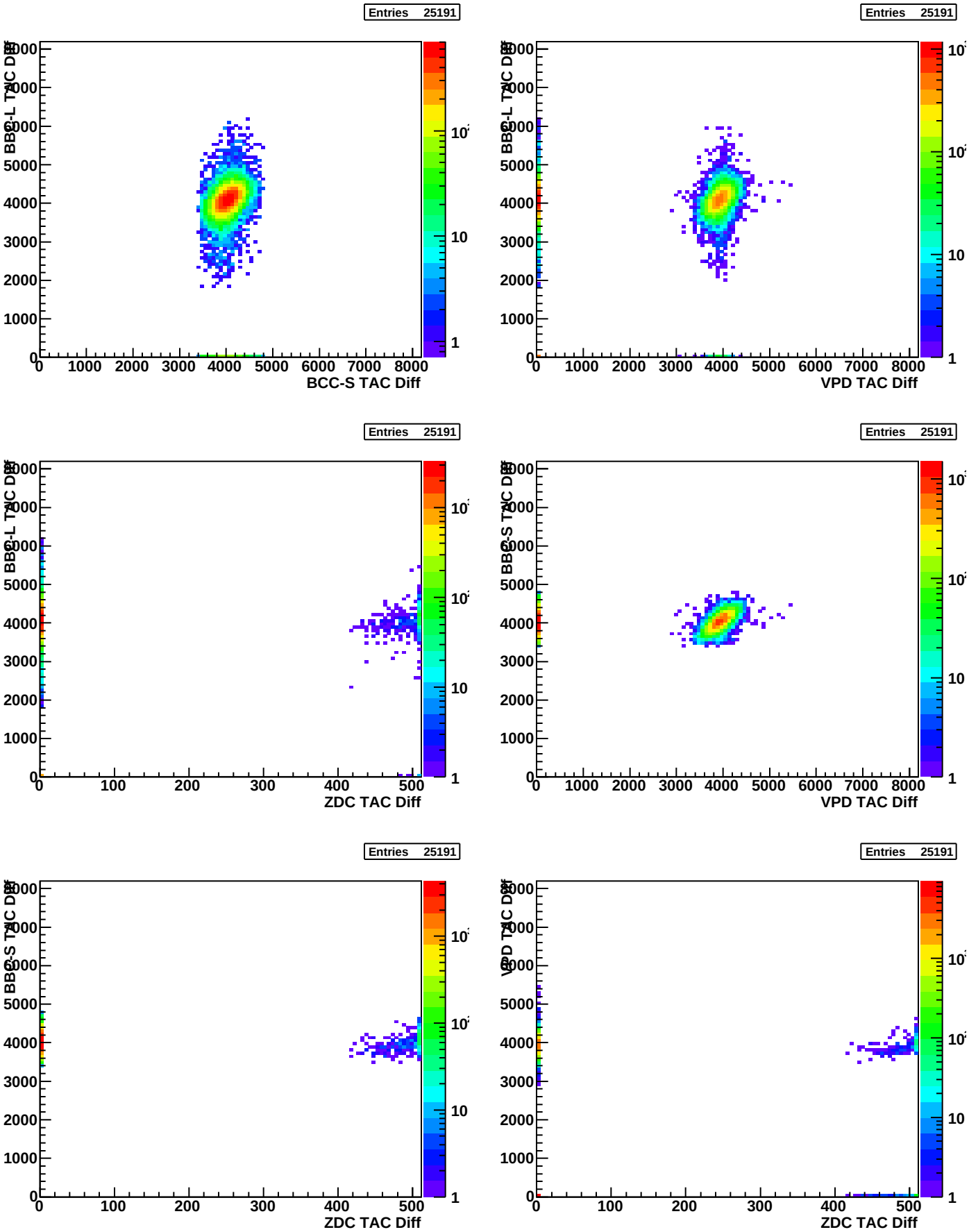

Entries 25191
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

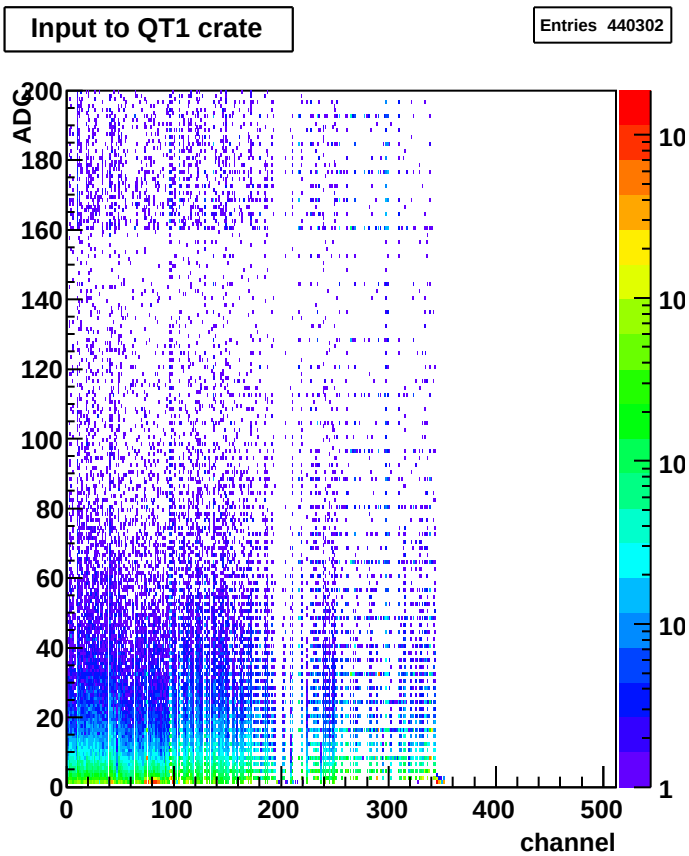

Entries 25191
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

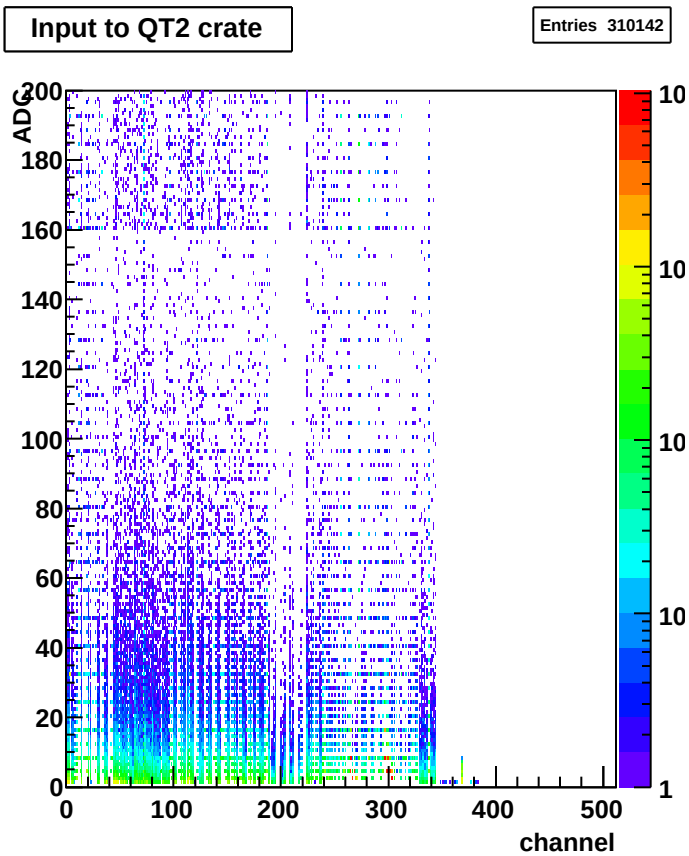

Entries 25191
BBC-L-East ADC Sum
BBC-L-West ADC Sum

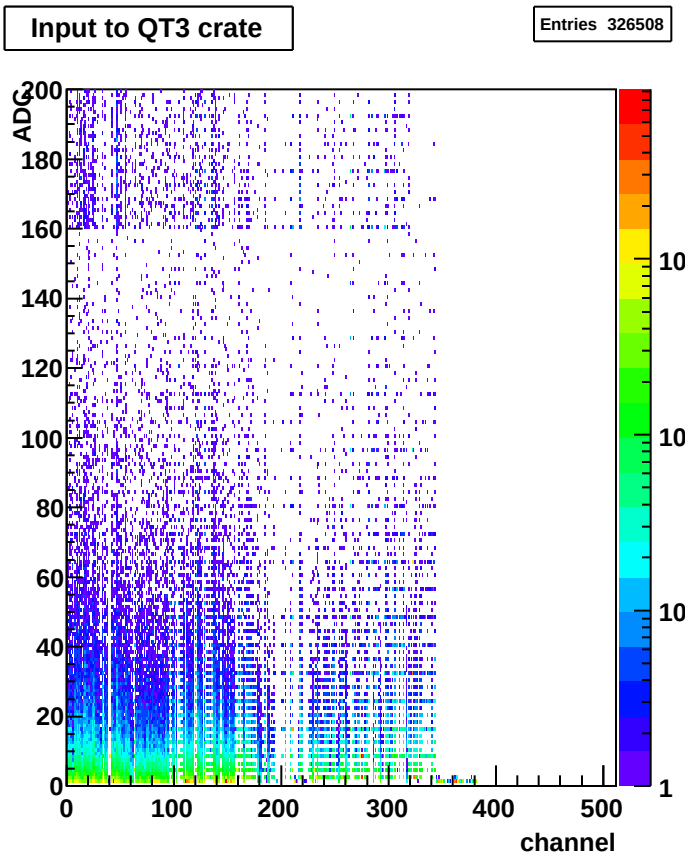

Entries 25191
BBC-S-East ADC Sum
BBC-S-West ADC Sum

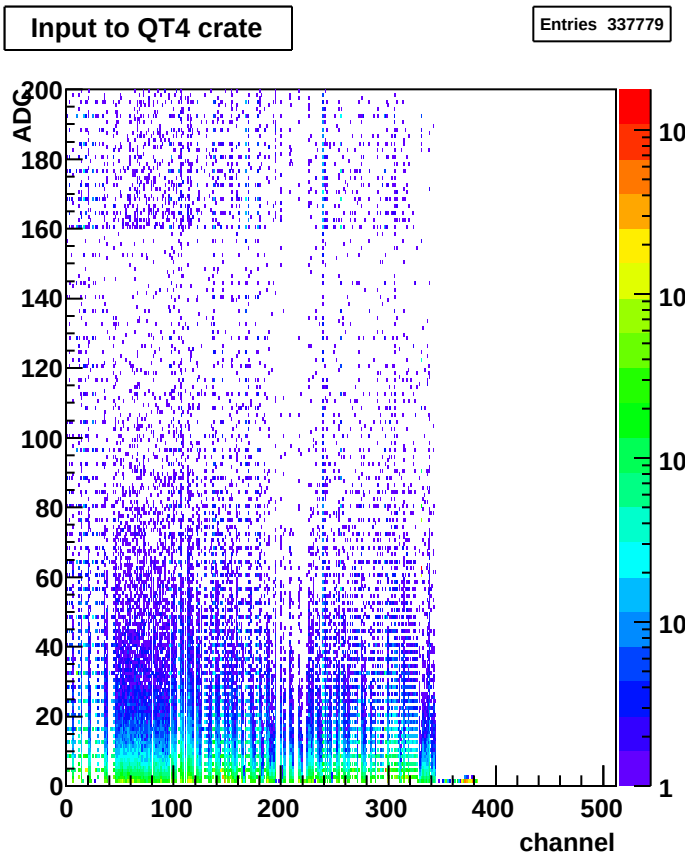

Entries 25191
ZDC East ADC Sum Att
ZDC West ADC Sum Att

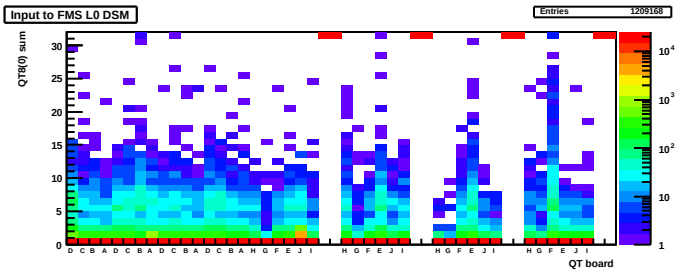

Entries 25191
BBC-L TAC Diff
BCC-S TAC Diff
Entries 25191
BBC-L TAC Diff
VPD TAC Diff
Entries 25191
BBC-L TAC Diff
ZDC TAC Diff
Entries 25191
BBC-S TAC Diff
VPD TAC Diff
Entries 25191
BBC-S TAC Diff
ZDC TAC Diff
Entries 25191
VPD TAC Diff
ZDC TAC Diff

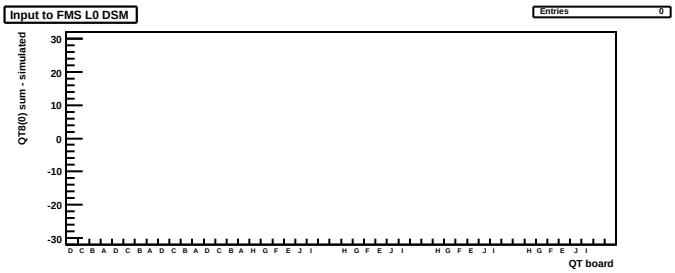

Input to QT1 crate
Entries 440302
ADC
channel

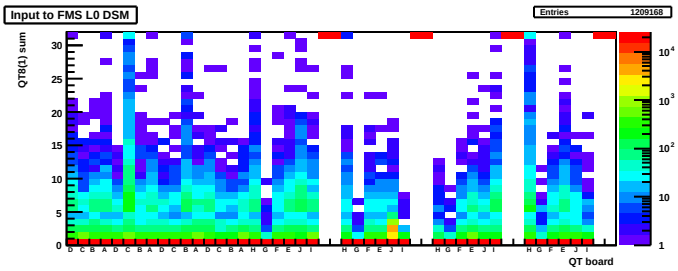

Input to QT2 crate
Entries 310142
ADC
channel

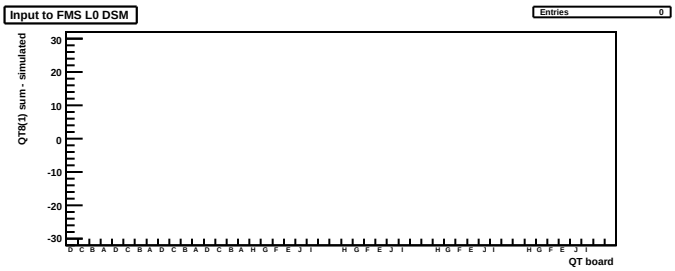

Input to QT3 crate
Entries 326508
ADC
channel

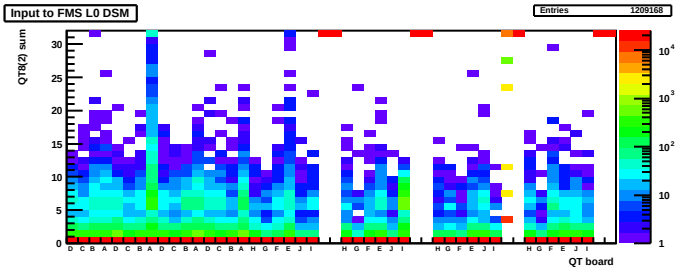

Input to QT4 crate
Entries 337779
ADC
channel

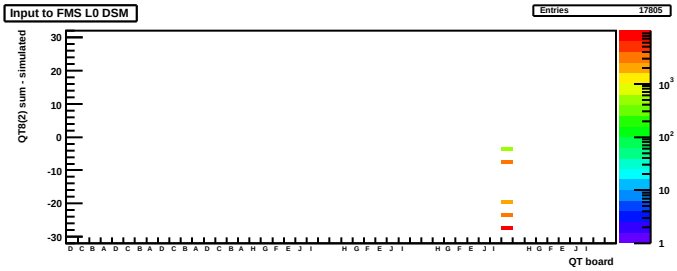

Input to FMS L0 DSM
Entries 1209168
QT8(0) sum
QT board

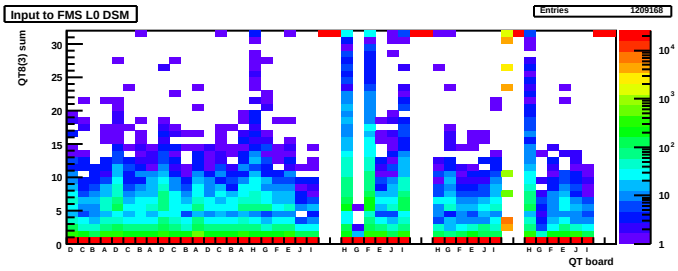

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

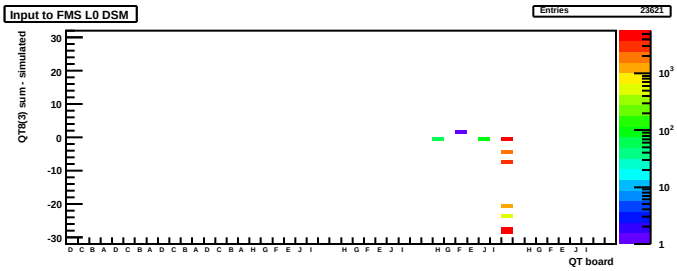

Input to FMS L0 DSM
Entries 1209168
QT8(1) sum
QT board

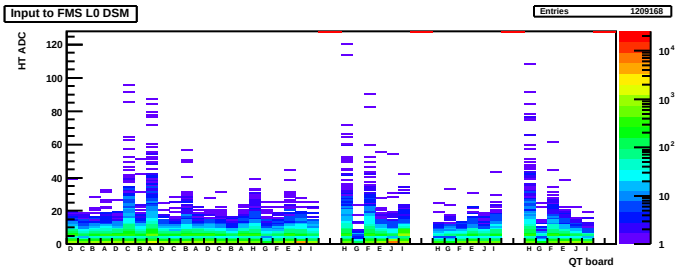

Input to FMS L0 DSM
Entries 0
QT8(1) sum - simulated
QT board

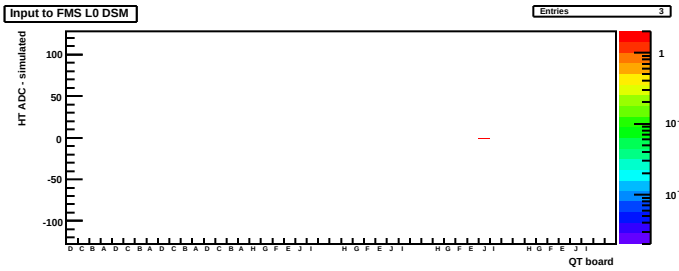

Input to FMS L0 DSM
Entries 1209168
QT8(2) sum
QT board

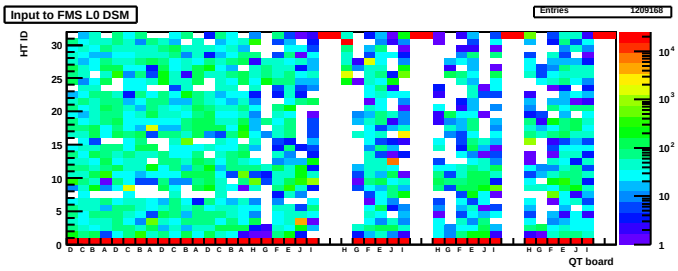

Input to FMS L0 DSM
Entries 17805
QT8(2) sum - simulated
QT board

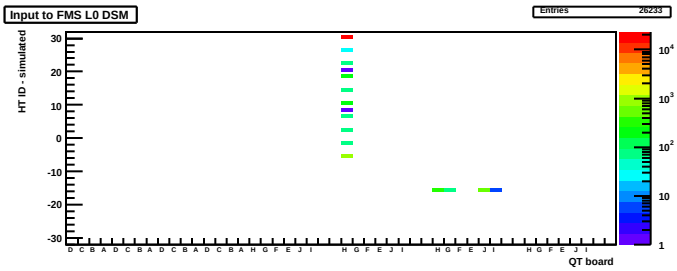

Input to FMS L0 DSM
Entries 1209168
QT8(3) sum
QT board

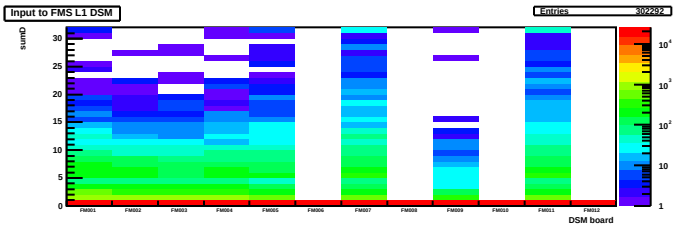

Input to FMS L0 DSM
Entries 23621
QT8(3) sum - simulated
QT board

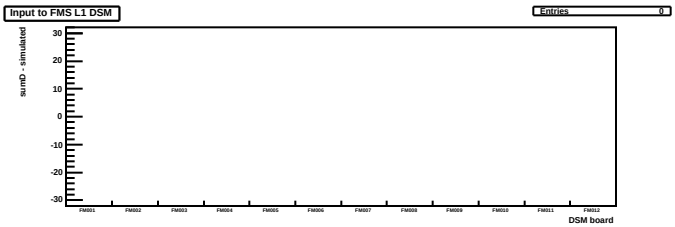

Input to FMS L0 DSM
Entries 1209168
HT ADC
QT board

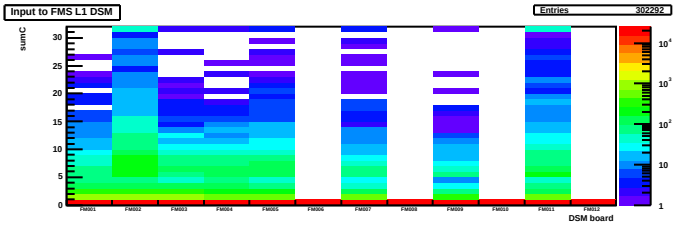

Input to FMS L0 DSM
Entries 3
HT ADC - simulated
QT board

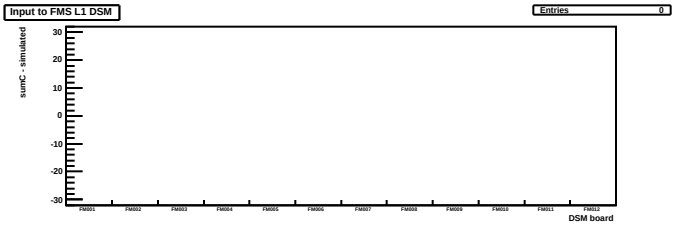

Input to FMS L0 DSM
Entries 1209168
HT ID
QT board

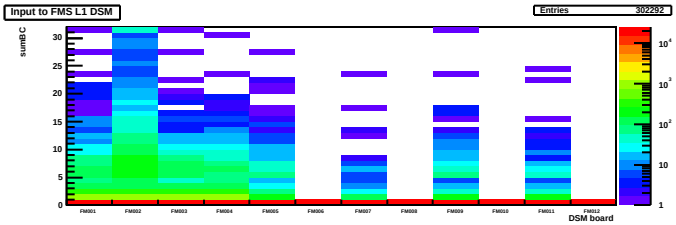

Input to FMS L0 DSM
Entries 26233
HT ID - simulated
QT board

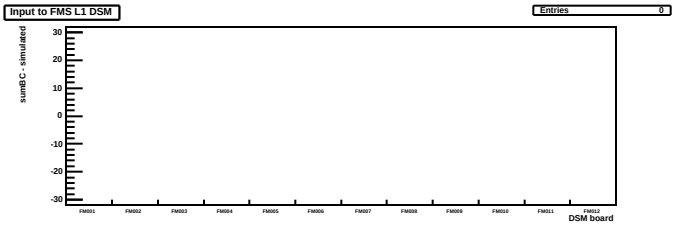

Input to FMS L1 DSM
Entries 302292
sumD
DSM board

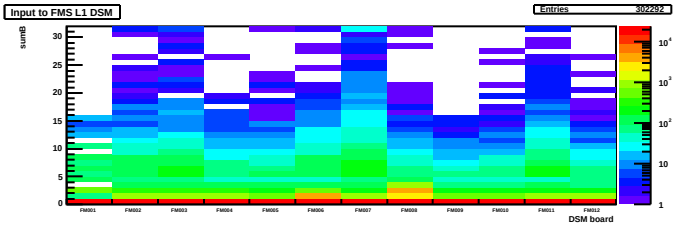

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

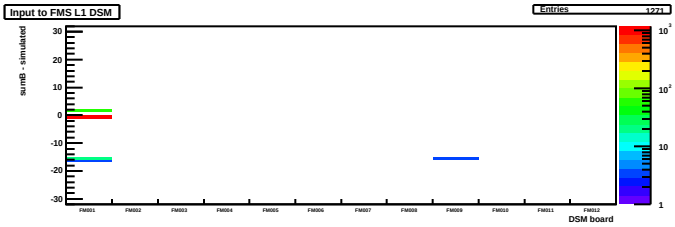

Input to FMS L1 DSM
Entries 302292
sumC
DSM board

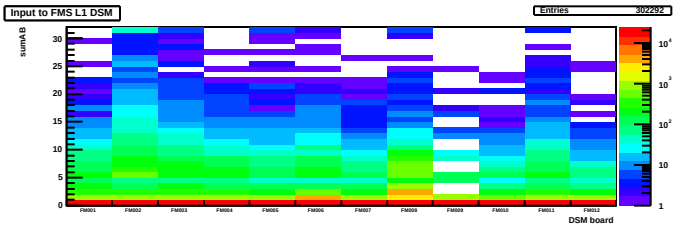

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

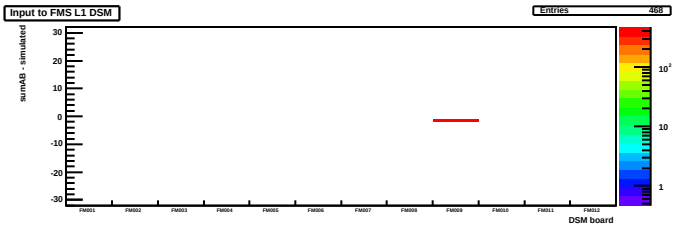

Input to FMS L1 DSM
Entries 302292
sumBC
DSM board

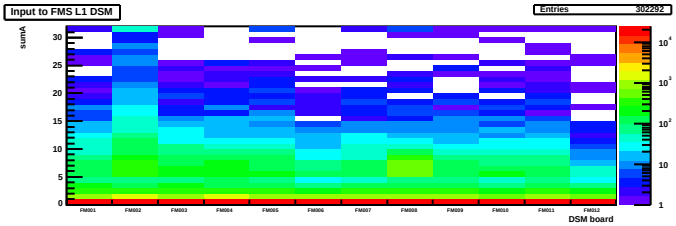

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

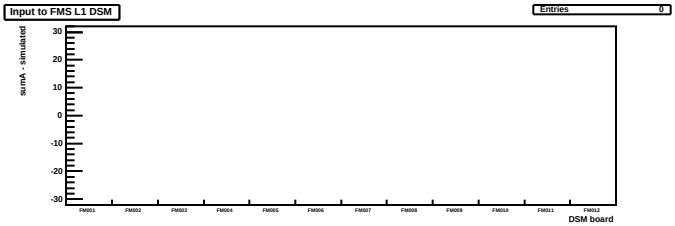

Input to FMS L1 DSM
Entries 302292
sumB
DSM board

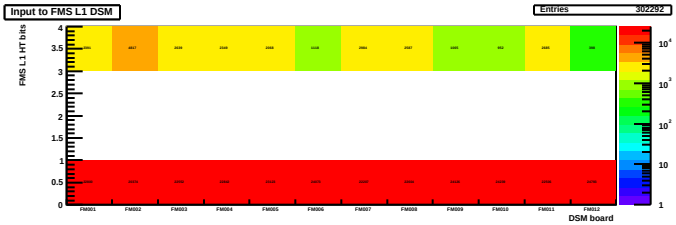

Input to FMS L1 DSM
Entries 1271
sumB - simulated
DSM board

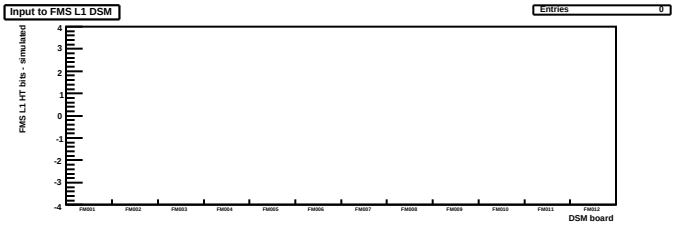

Input to FMS L1 DSM
Entries 302292
sumAB
DSM board

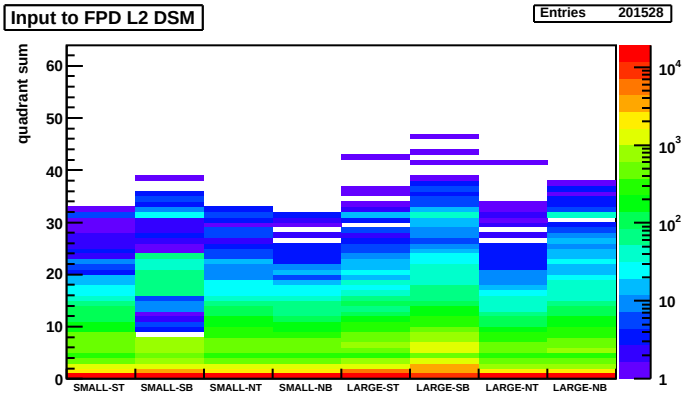

Input to FMS L1 DSM
Entries 468
sumAB - simulated
DSM board

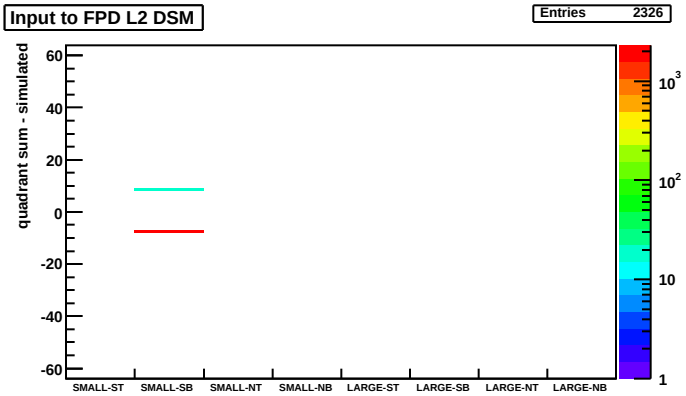

Input to FMS L1 DSM
Entries 302292
sumA
DSM board

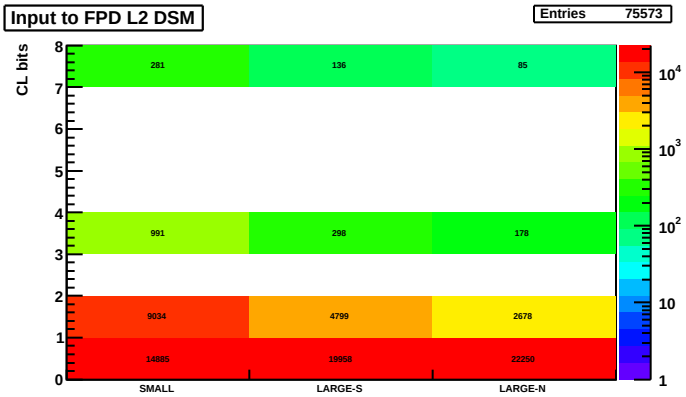

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

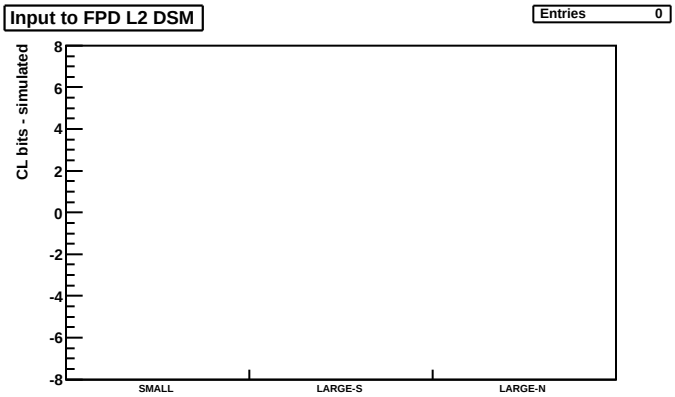

Input to FMS L1 DSM
Entries 302292
FMS L1 HT bits
DSM board

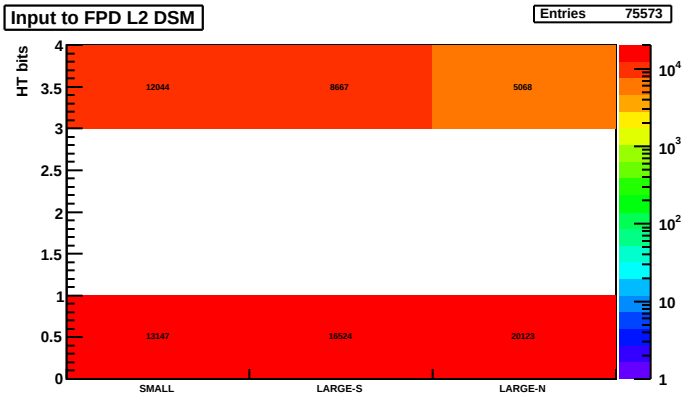

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

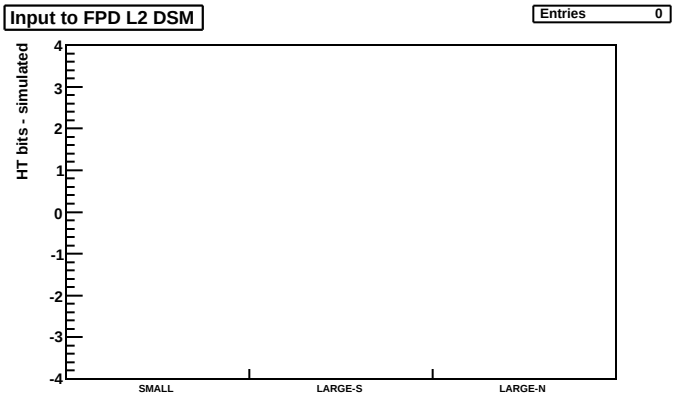

Input to FPD L2 DSM
Entries 201528
quadrant sum
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

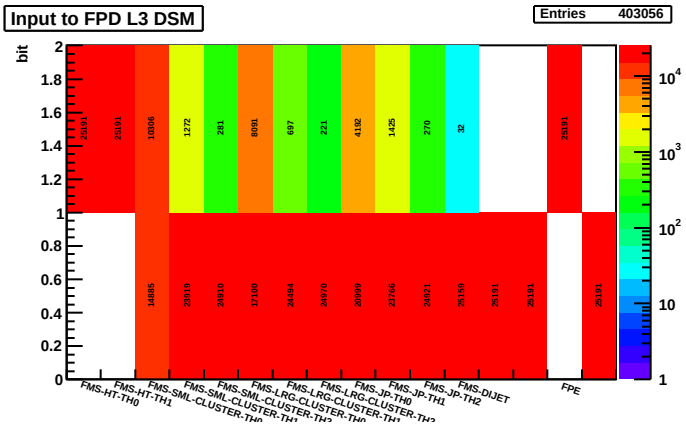

Input to FPD L2 DSM
Entries 2326
quadrant sum - simulated
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

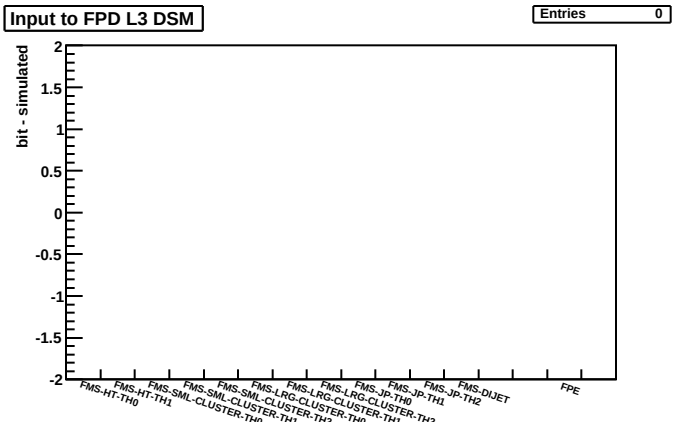

Input to FPD L2 DSM
Entries 75573
CL bits
281 136 85
991 298 178
9034 4799 2678
14885 19958 22250
SMALL LARGE-S LARGE-N

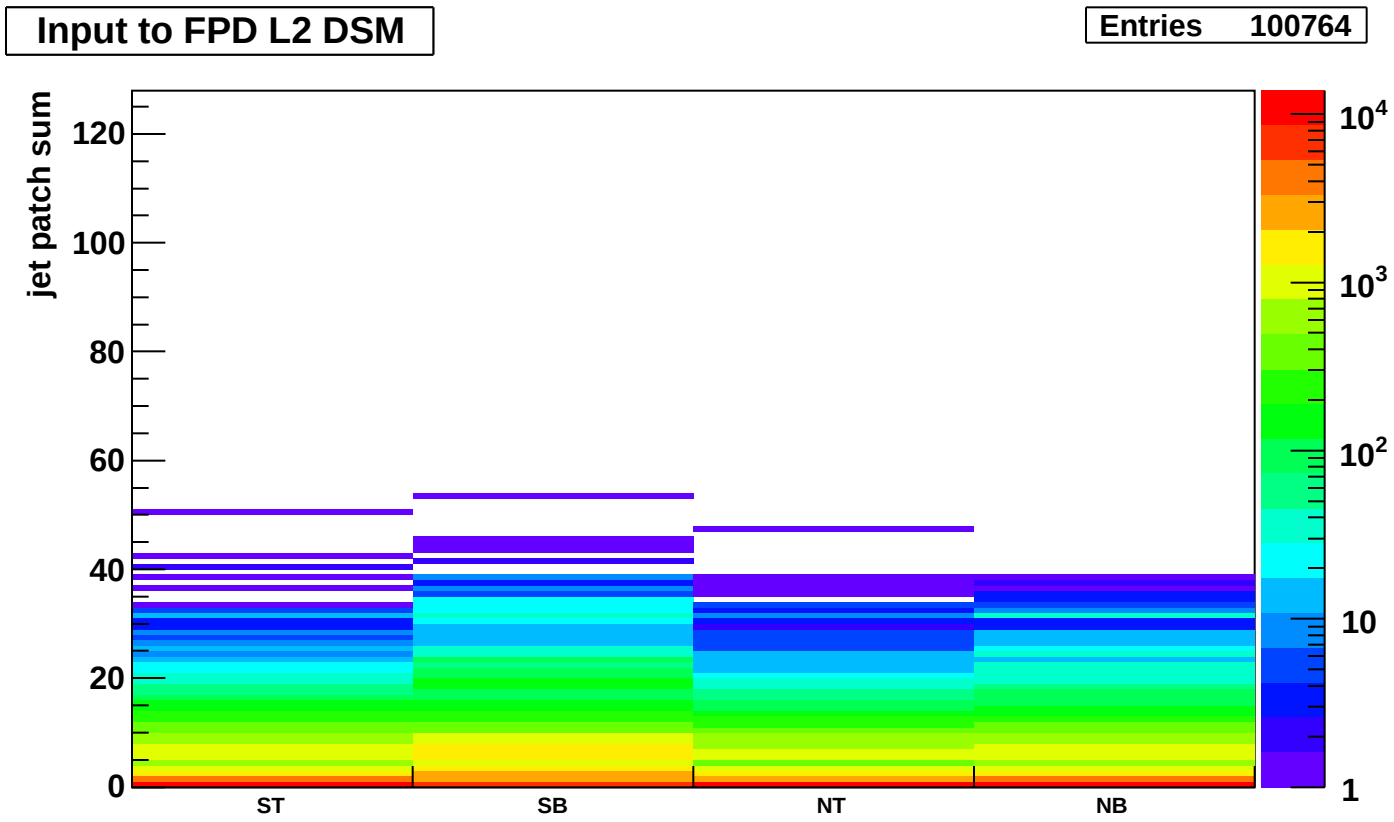

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL LARGE-S LARGE-N

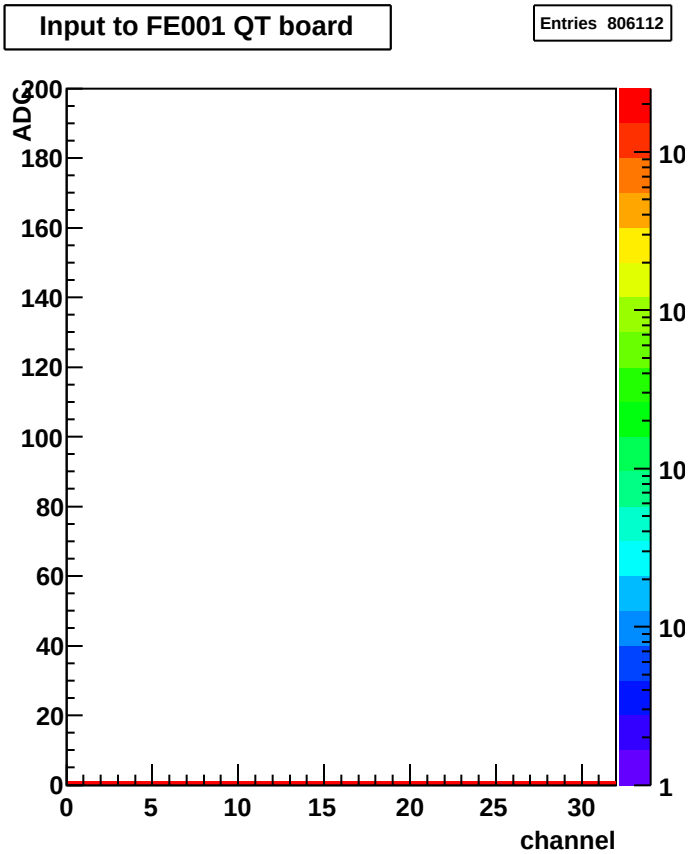

Input to FPD L2 DSM
Entries 75573
HT bits
12044 8667 5068
13147 16524 20123
SMALL LARGE-S LARGE-N

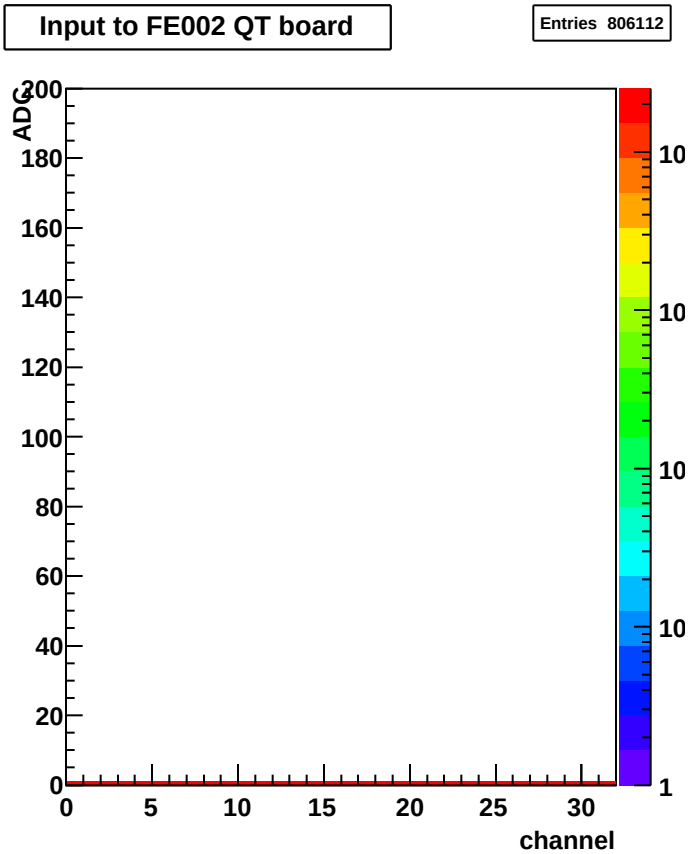

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL LARGE-S LARGE-N

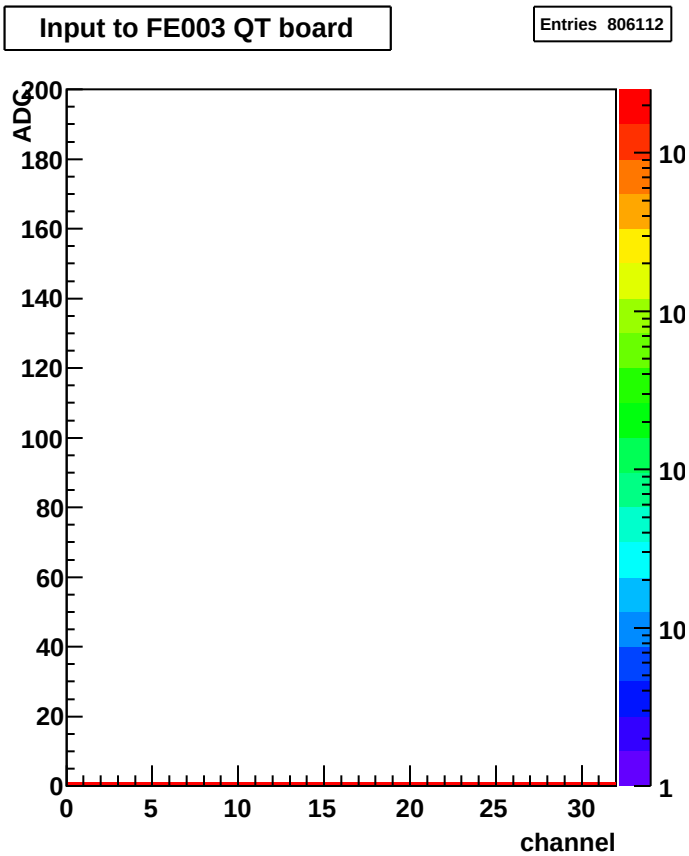

Input to FPD L3 DSM
Entries 403056
bit
FMS-HT-TH0 FMS-HT-TH1 FMS-SML-CLUSTER-TH0 FMS-SML-CLUSTER-TH1 FMS-SML-CLUSTER-TH2 FMS-LRG-CLUSTER-TH0 FMS-LRG-CLUSTER-TH1 FMS-LRG-CLUSTER-TH2 FMS-JP-TH0 FMS-JP-TH1 FMS-JP-TH2 FMS-DIJET FPE

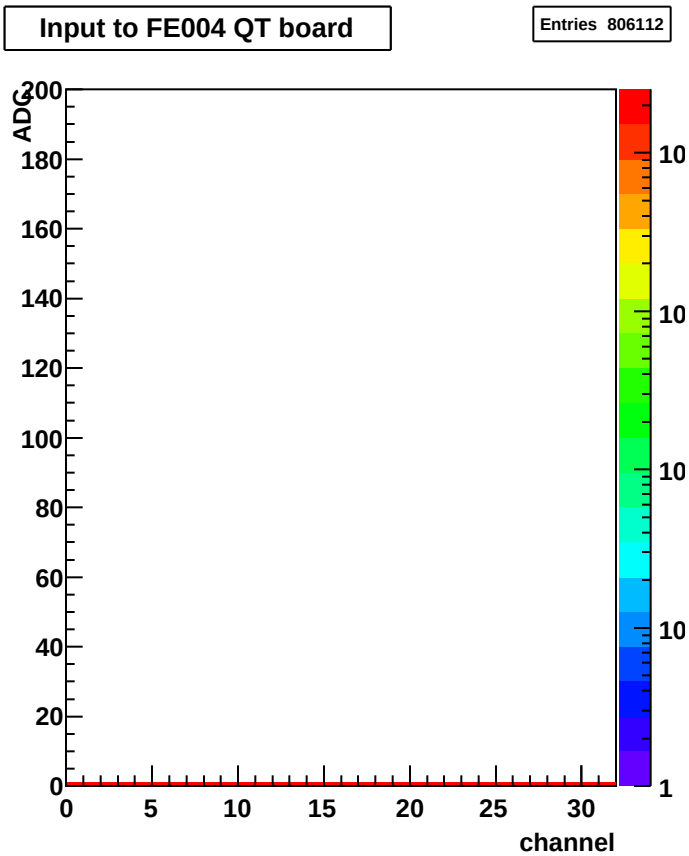

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0 FMS-HT-TH1 FMS-SML-CLUSTER-TH0 FMS-SML-CLUSTER-TH1 FMS-SML-CLUSTER-TH2 FMS-LRG-CLUSTER-TH0 FMS-LRG-CLUSTER-TH1 FMS-LRG-CLUSTER-TH2 FMS-JP-TH0 FMS-JP-TH1 FMS-JP-TH2 FMS-DIJET FPE

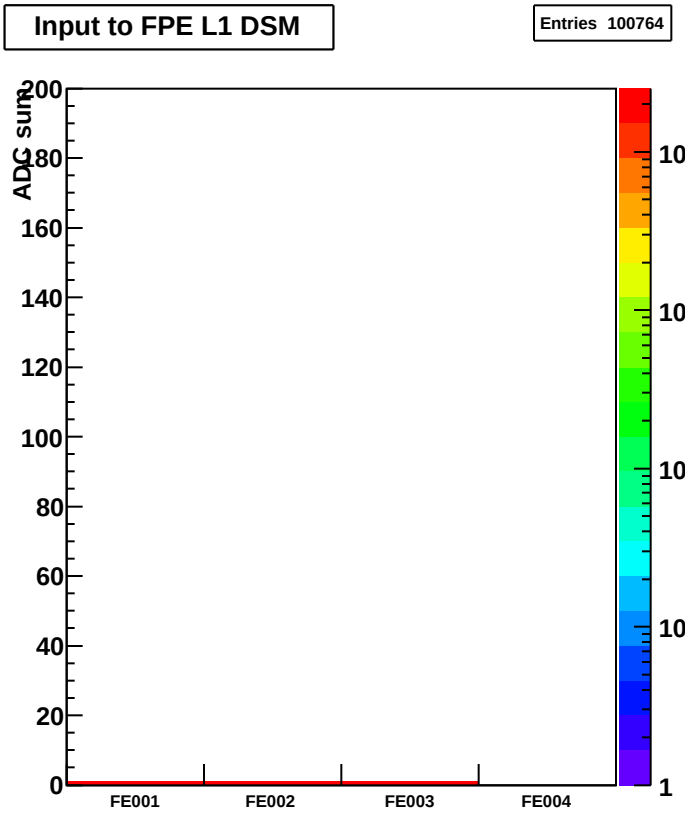

Input to FPD L2 DSM
Entries 100764
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

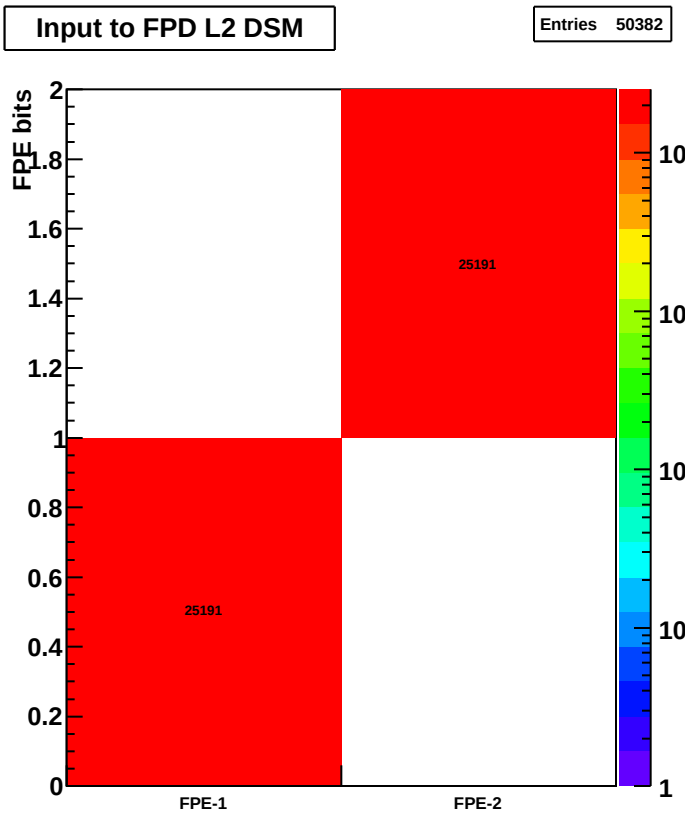

Input to FE001 QT board
Entries 806112
ADC
channel

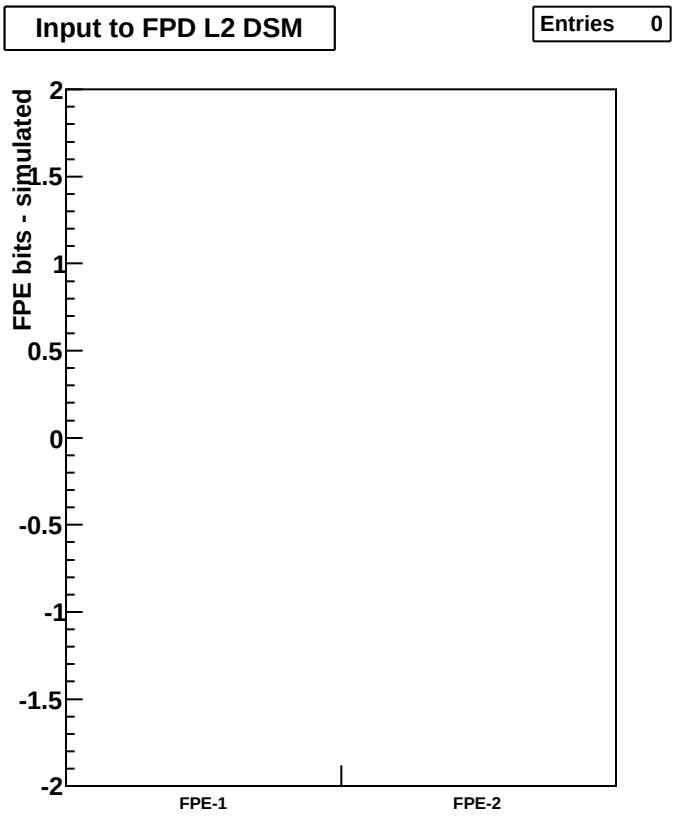

Input to FE002 QT board
Entries 806112
ADC
channel


Input to FE003 QT board
Entries 806112
ADC
channel


Input to FE004 QT board
Entries 806112
ADC
channel


Input to FPE L1 DSM
Entries 100764
ADC sum
200
180
160
140
120
100
80
60
40
20
0
FE001
FE002
FE003
FE004
10
10
10
10
1


Input to FPD L2 DSM
Entries 50382
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
25191
25191
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