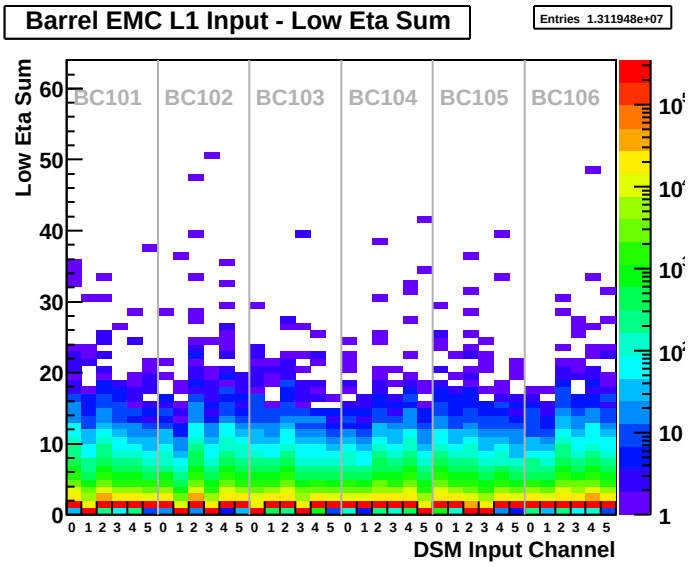
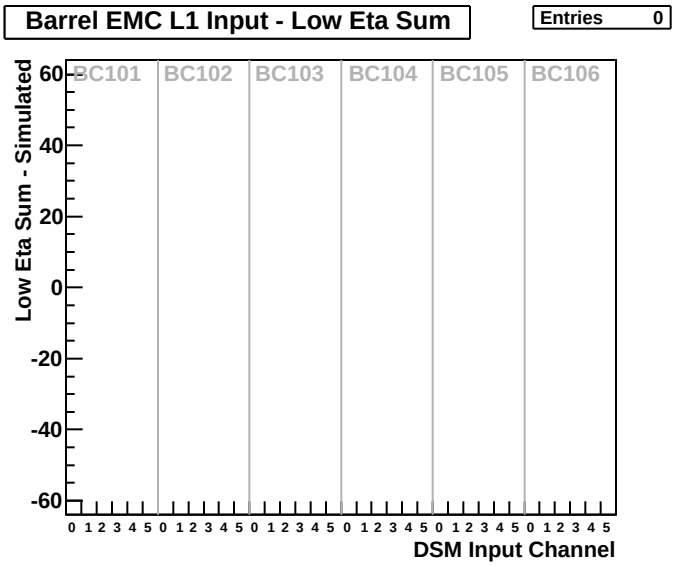
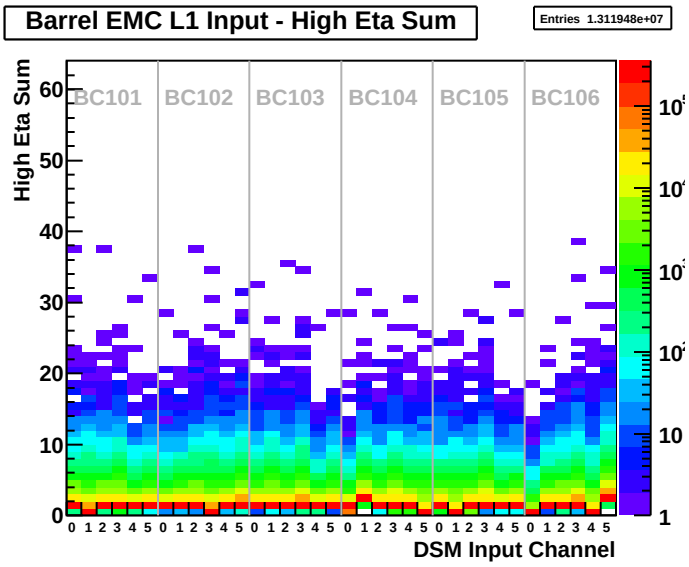
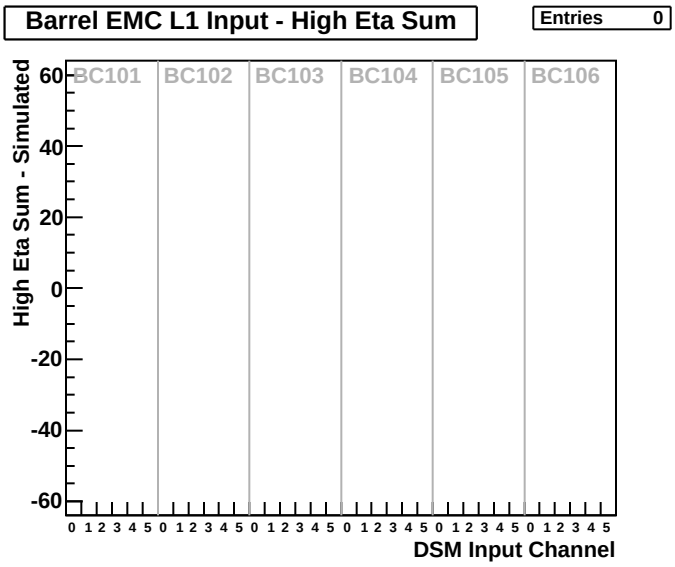
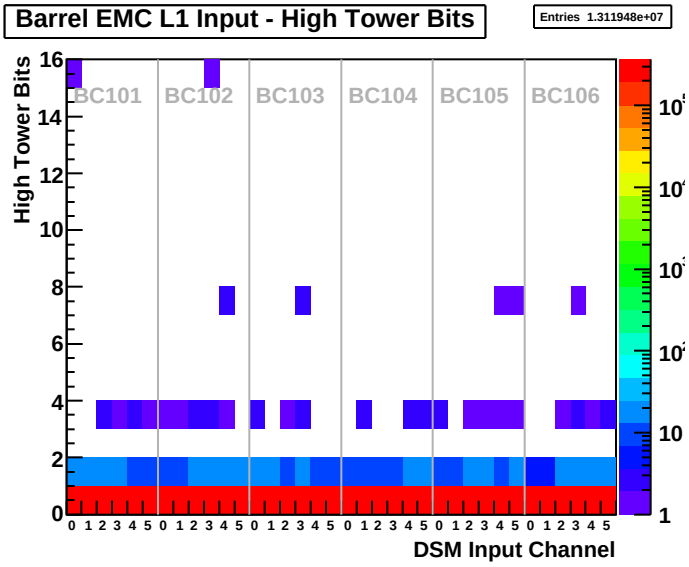
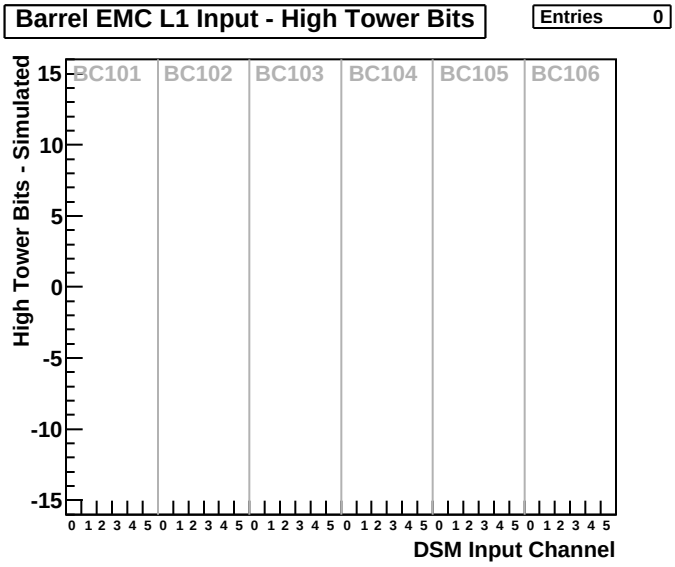

Barrel EMC L1 Input - Low Eta Sum
Entries 1.311948e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

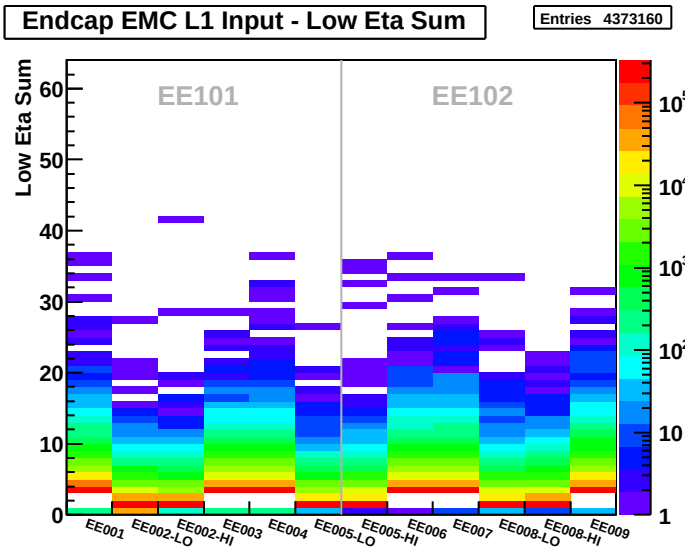

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

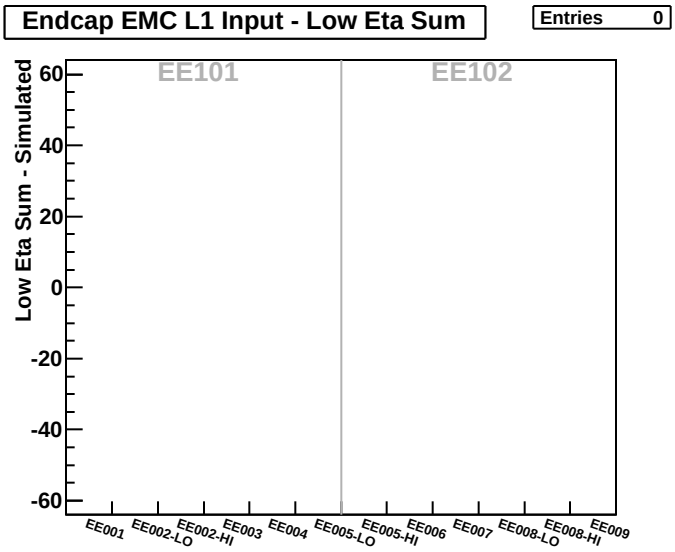

Barrel EMC L1 Input - High Eta Sum
Entries 1.311948e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

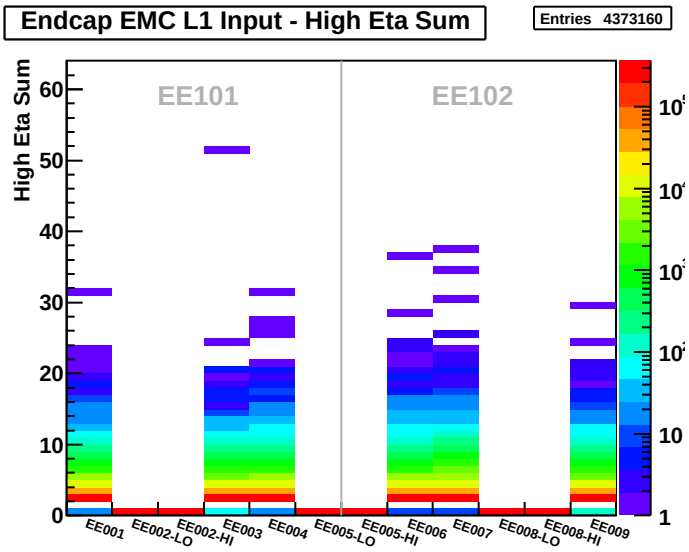

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

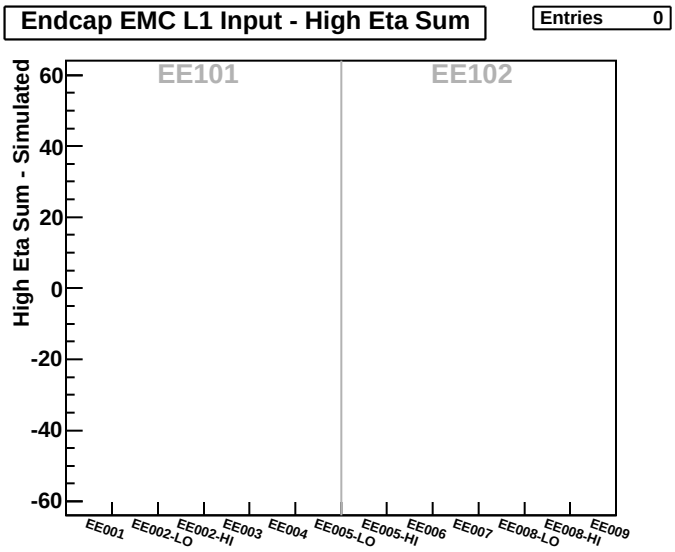

Barrel EMC L1 Input - High Tower Bits
Entries 1.311948e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

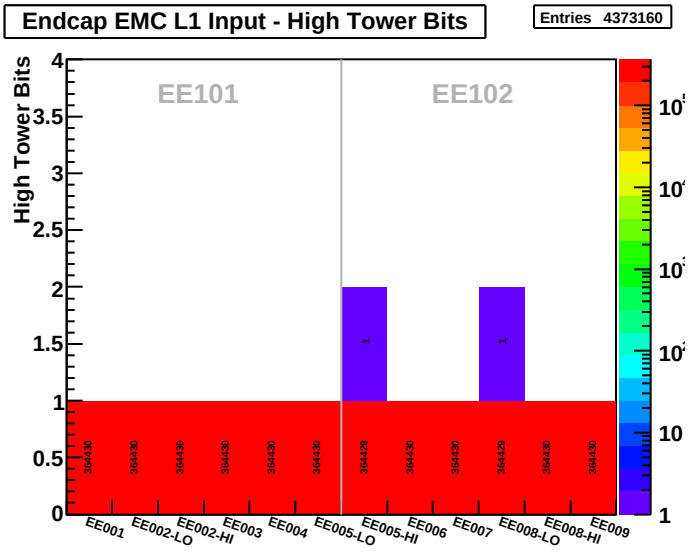

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

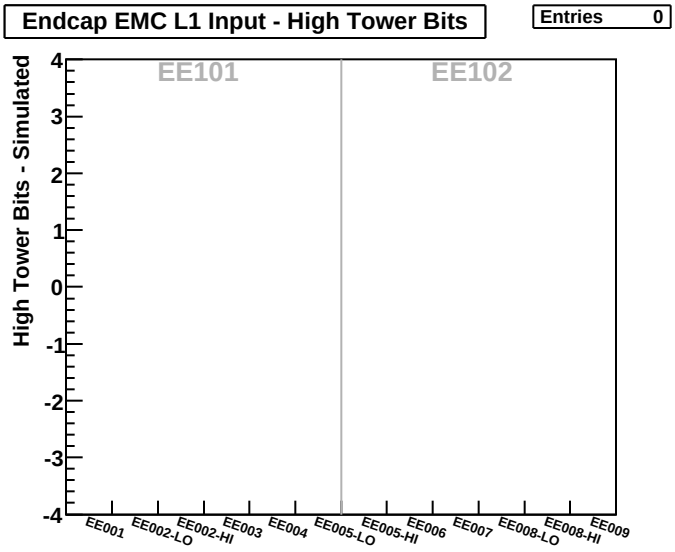

Endcap EMC L1 Input - Low Eta Sum
Entries 4373160
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

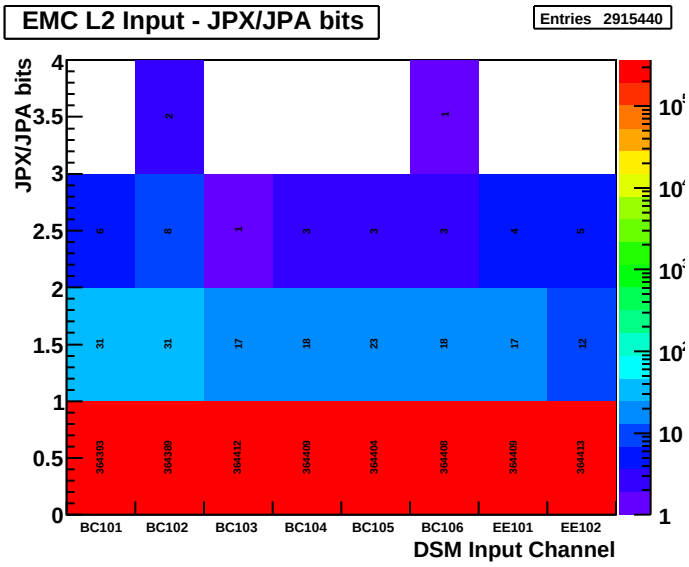

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

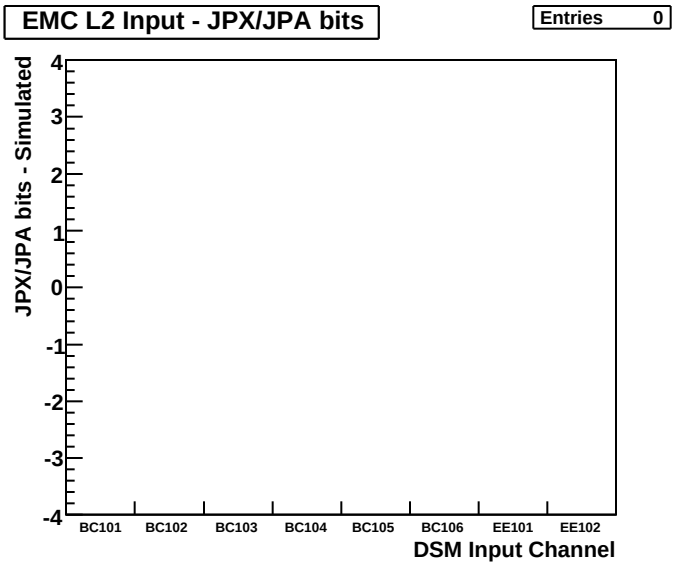

Endcap EMC L1 Input - High Eta Sum
Entries 4373160
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

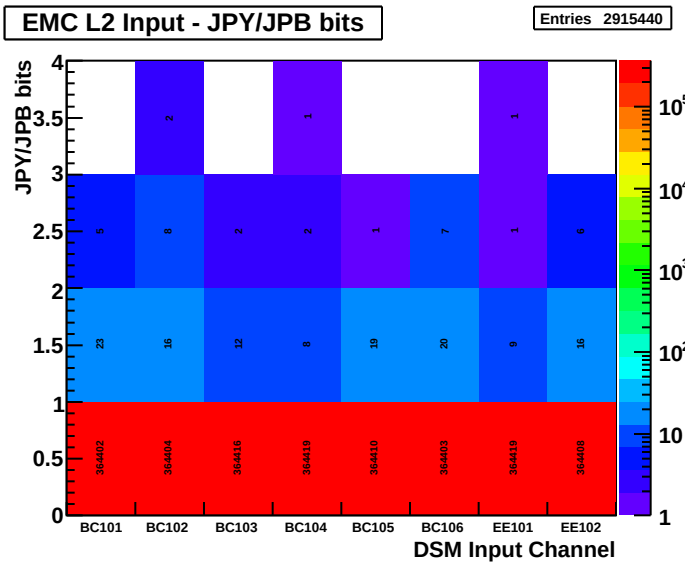

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

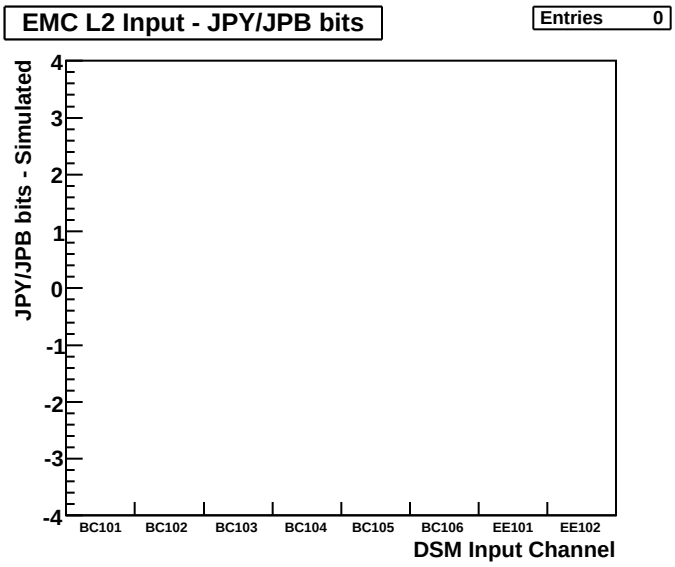

Endcap EMC L1 Input - High Tower Bits
Entries 4373160
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

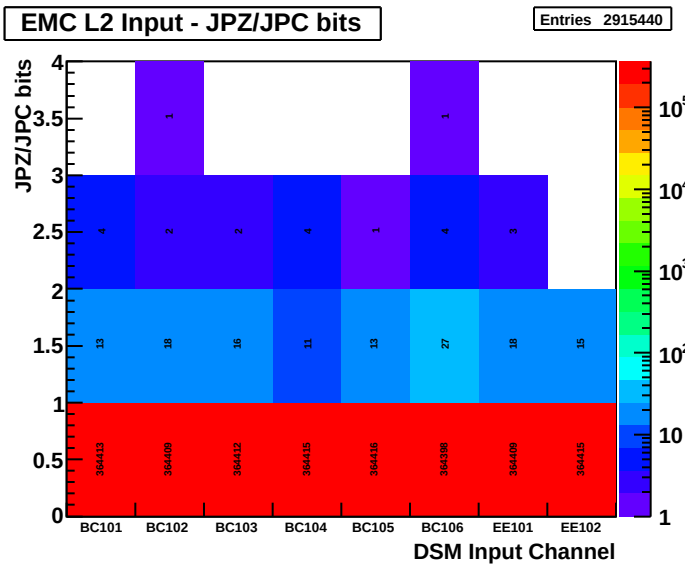

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

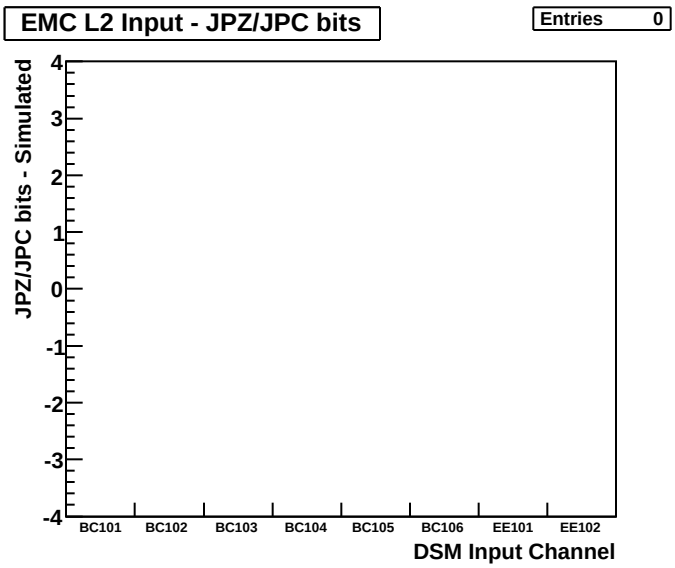

EMC L2 Input - JPX/JPA bits
Entries 2915440
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

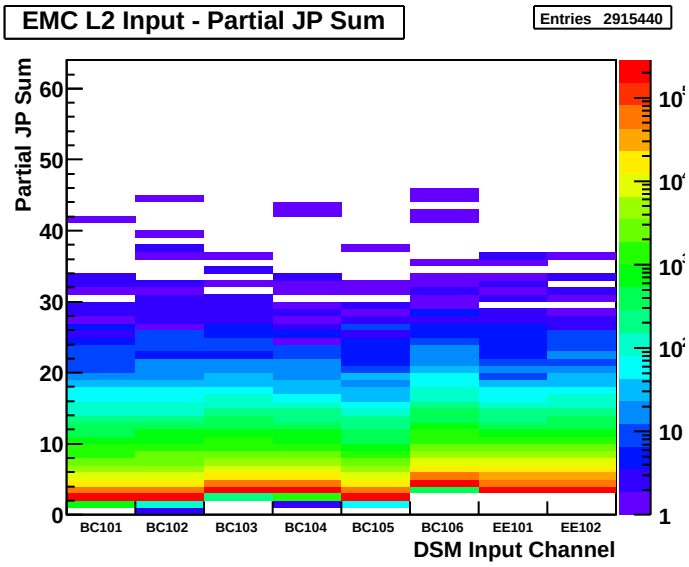

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

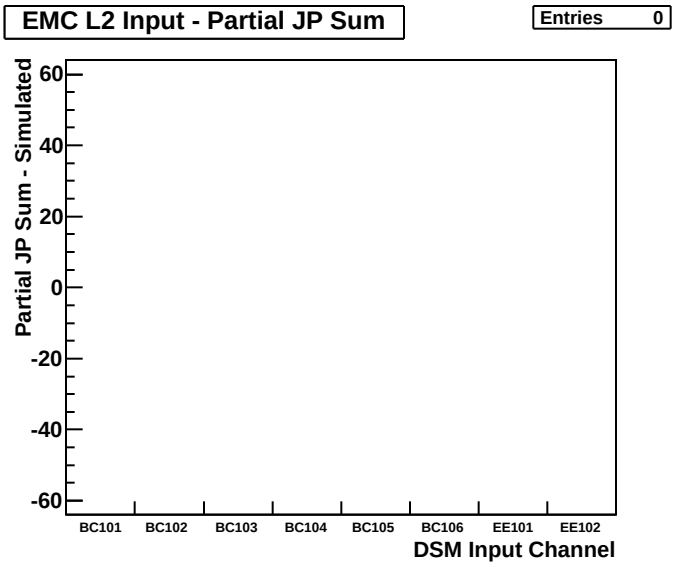

EMC L2 Input - JPY/JPB bits
Entries 2915440
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

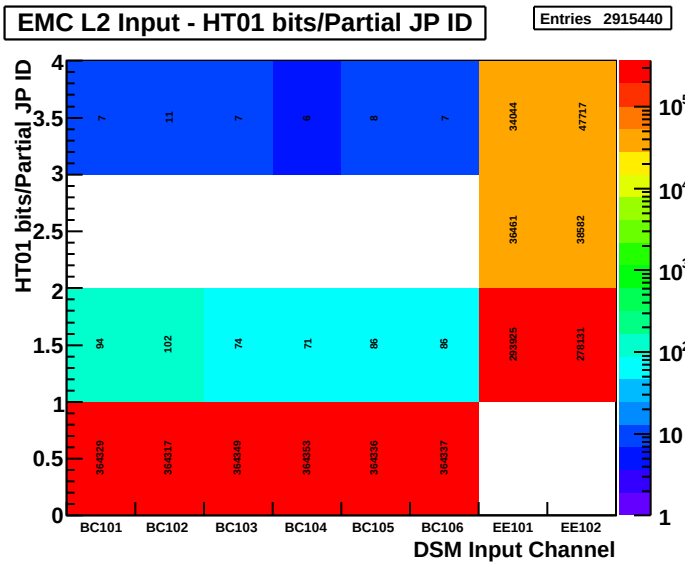

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

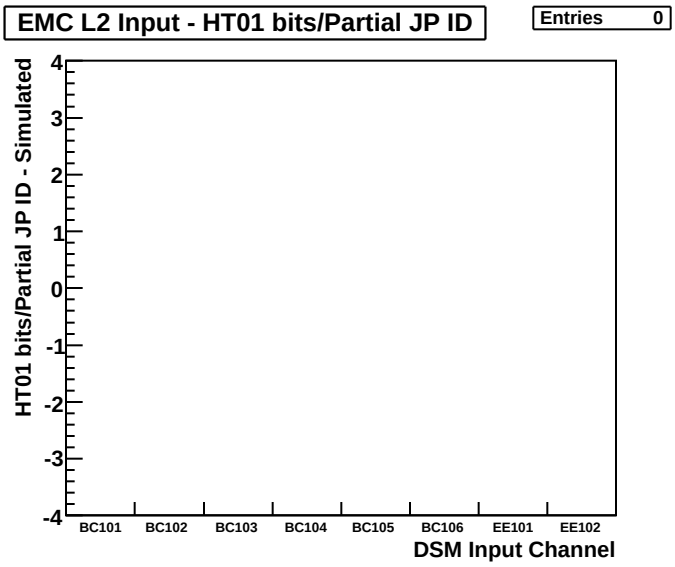

EMC L2 Input - JPZ/JPC bits
Entries 2915440
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

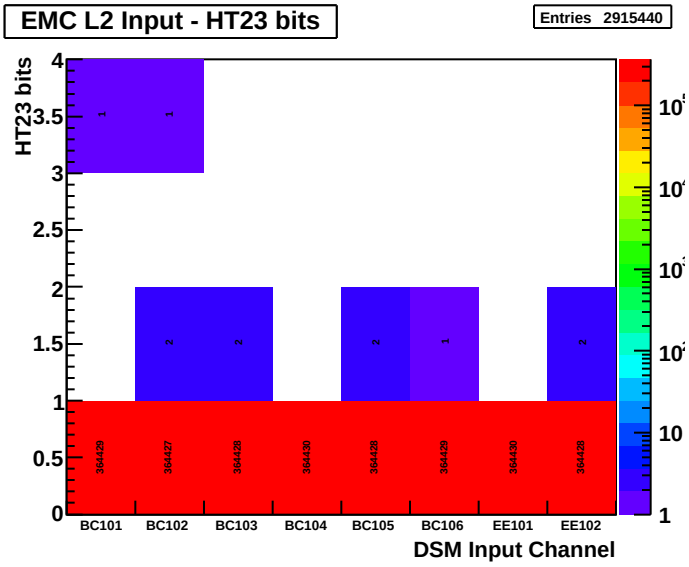

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

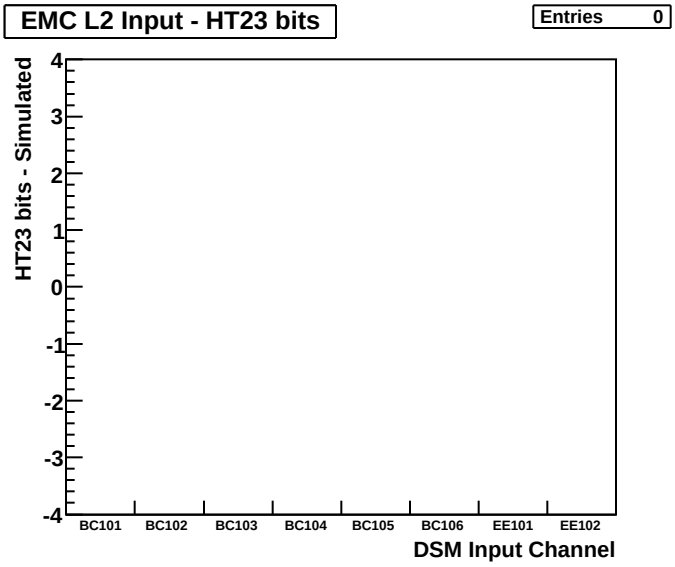

EMC L2 Input - Partial JP Sum
Entries 2915440
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

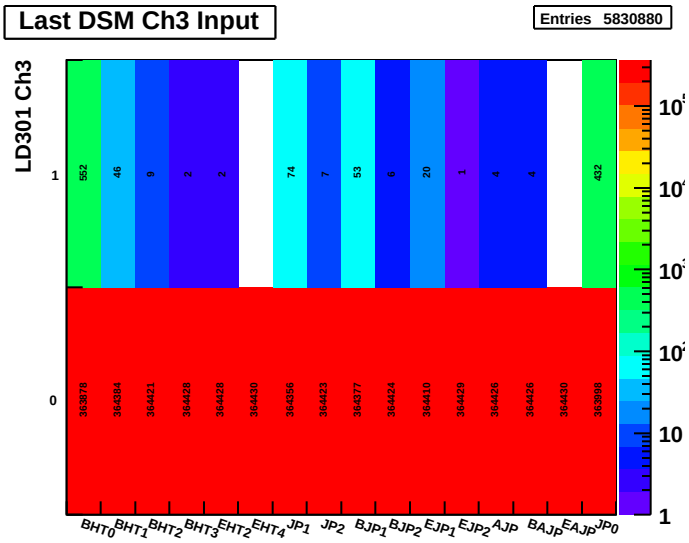

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

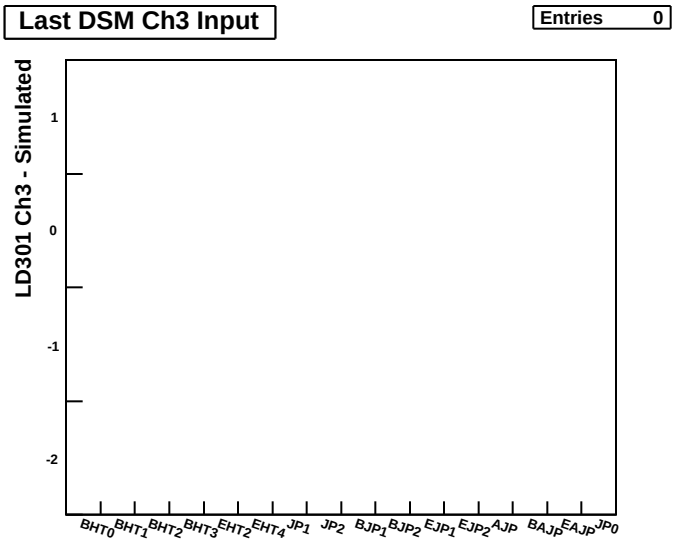

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2915440
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

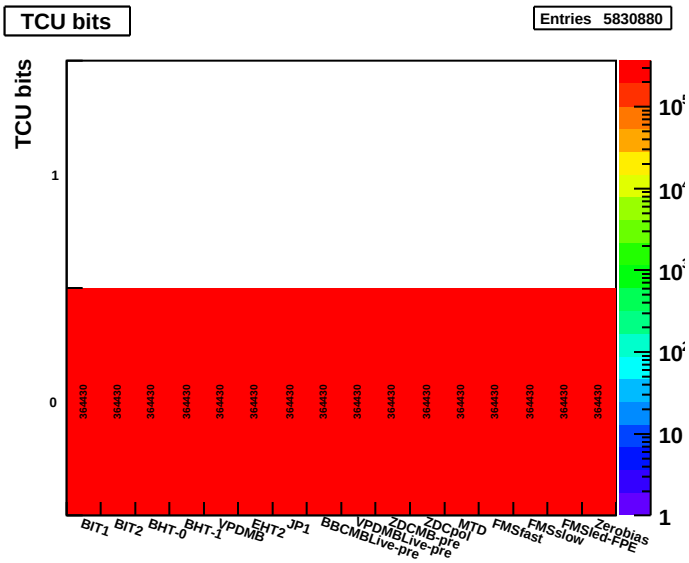

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

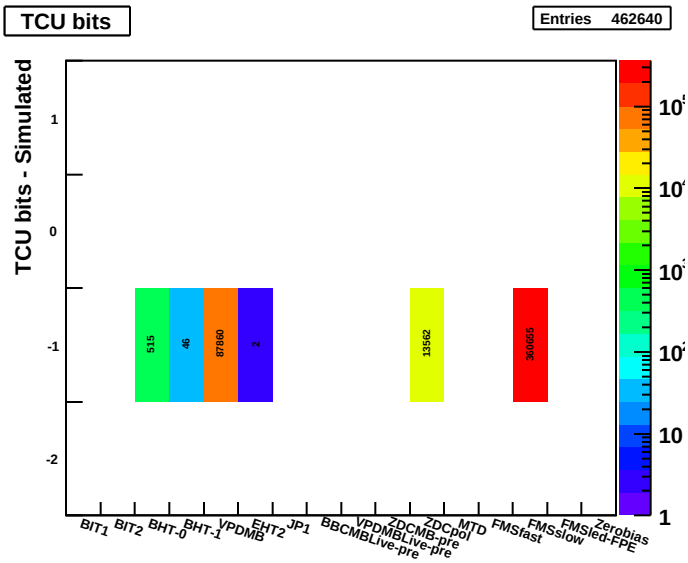

EMC L2 Input - HT23 bits
Entries 2915440
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

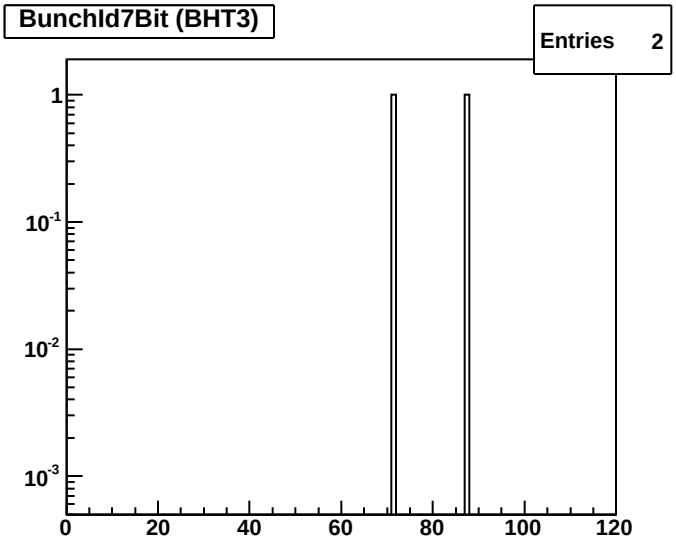

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

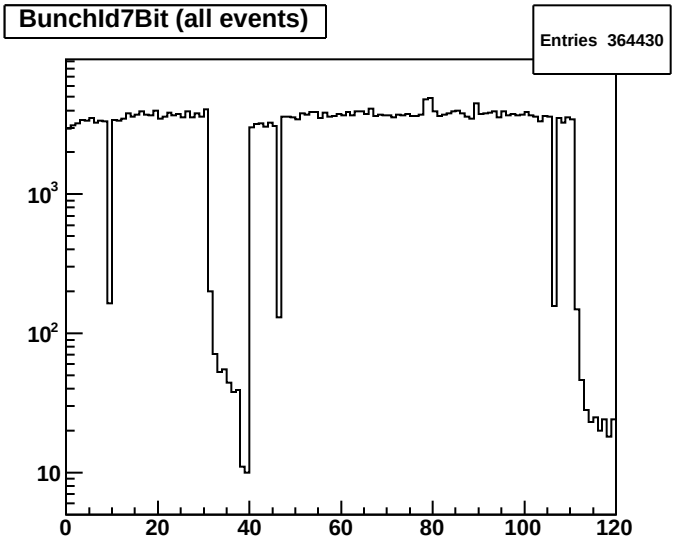

Last DSM Ch3 Input
Entries 5830880
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

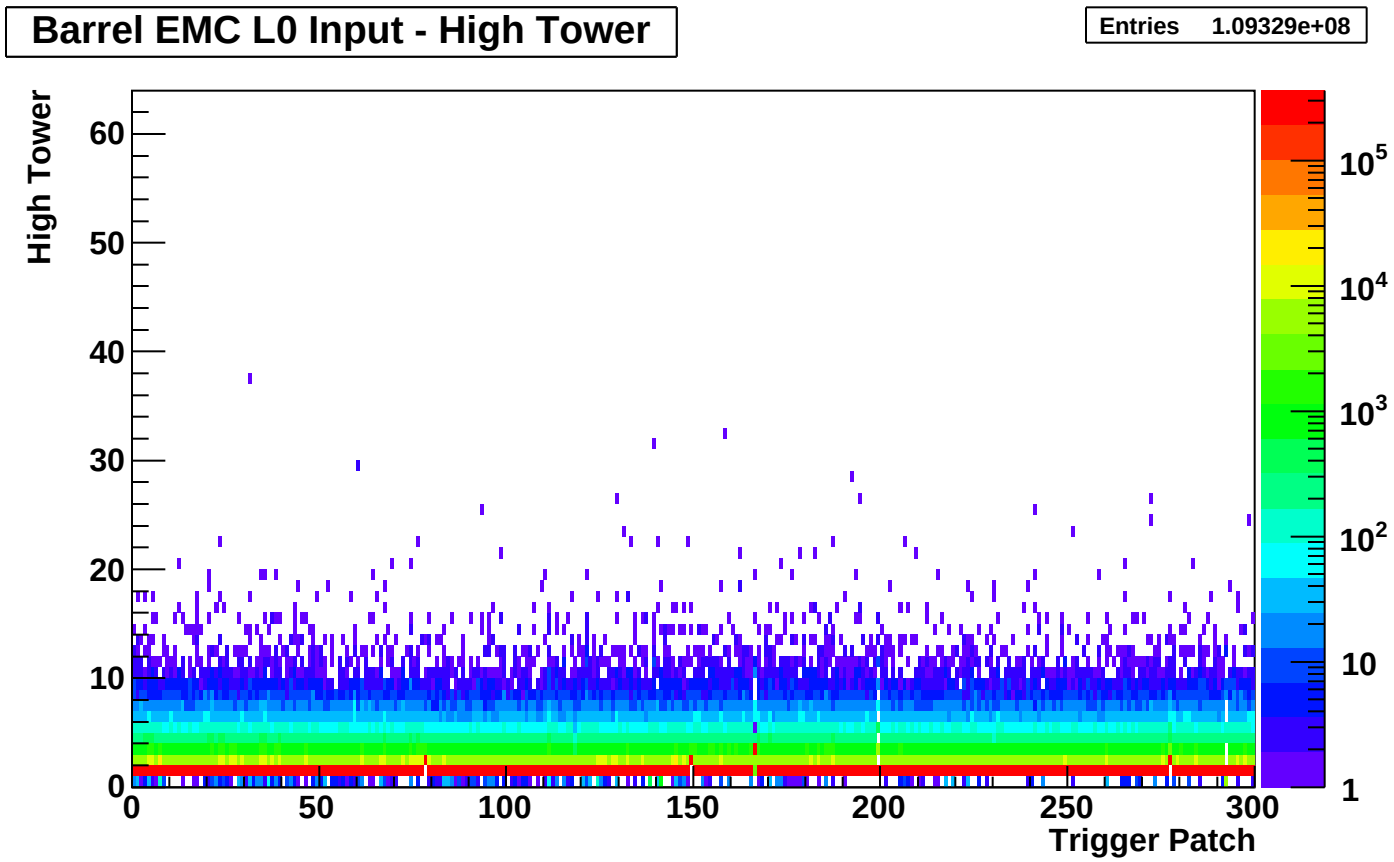

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

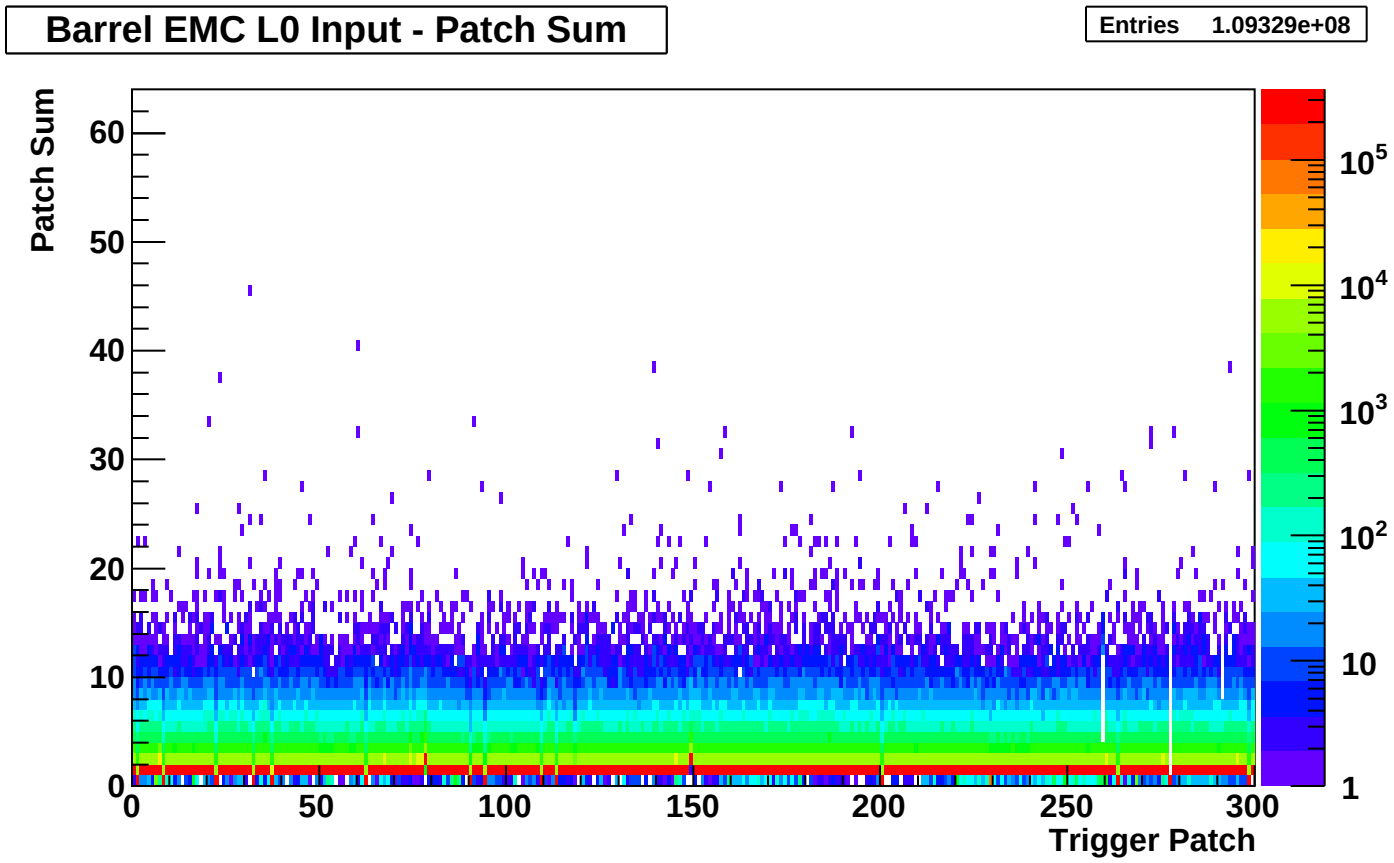

TCU bits
Entries 5830880
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

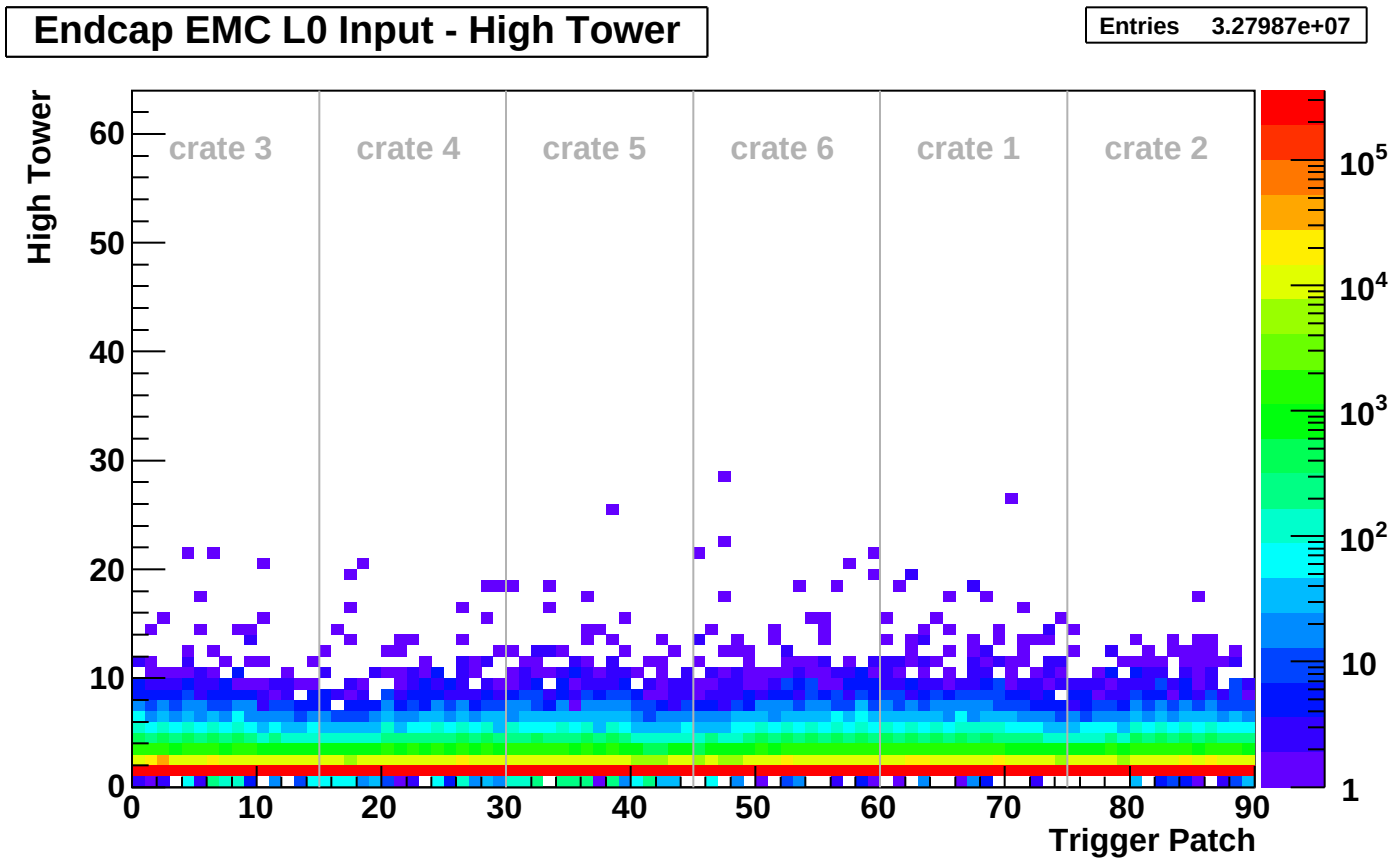

TCU bits
Entries 462640
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

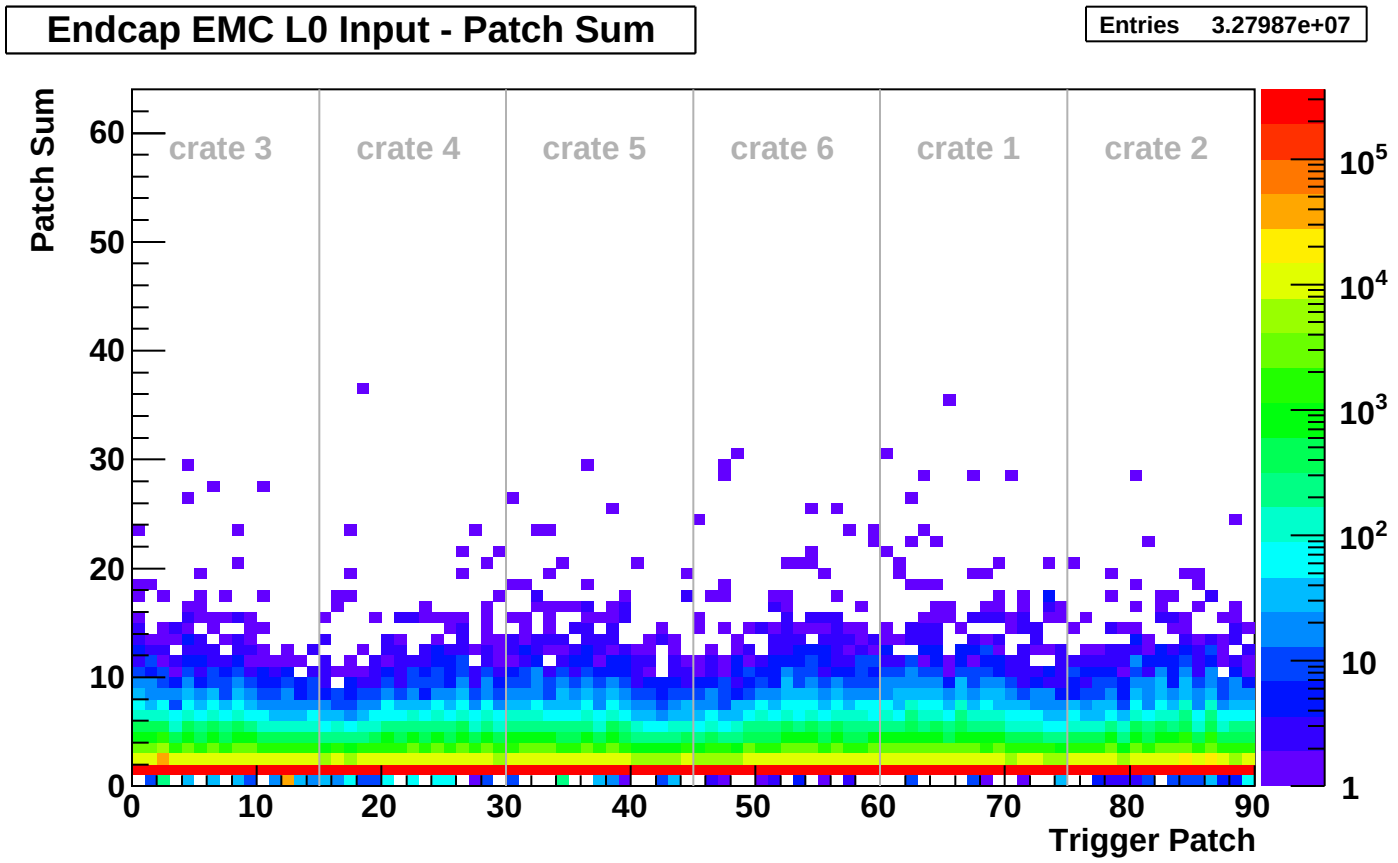

BunchId7Bit (BHT3)
Entries 2

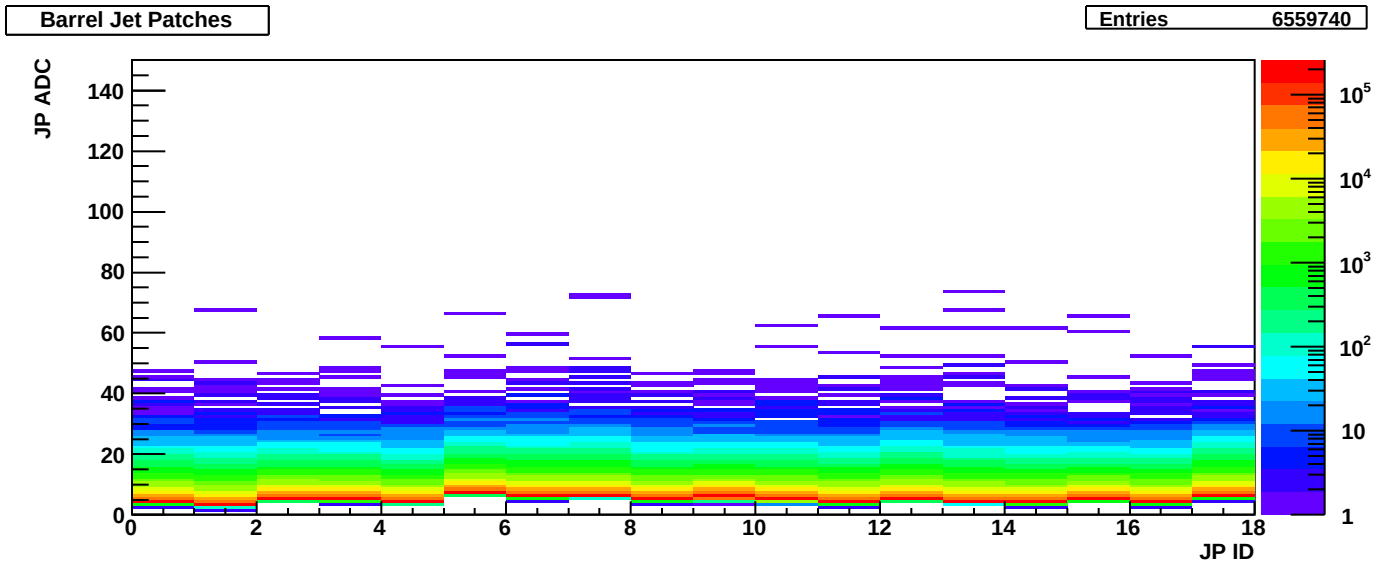

BunchId7Bit (all events)
Entries 364430

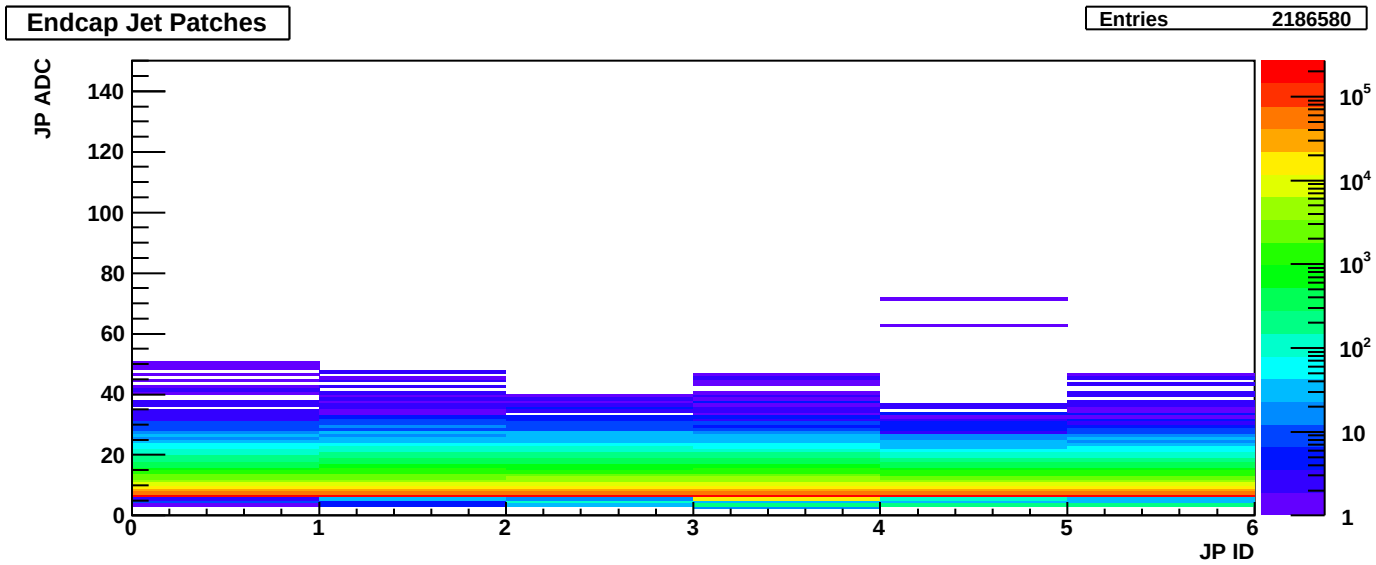

Barrel EMC L0 Input - High Tower
Entries 1.09329e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

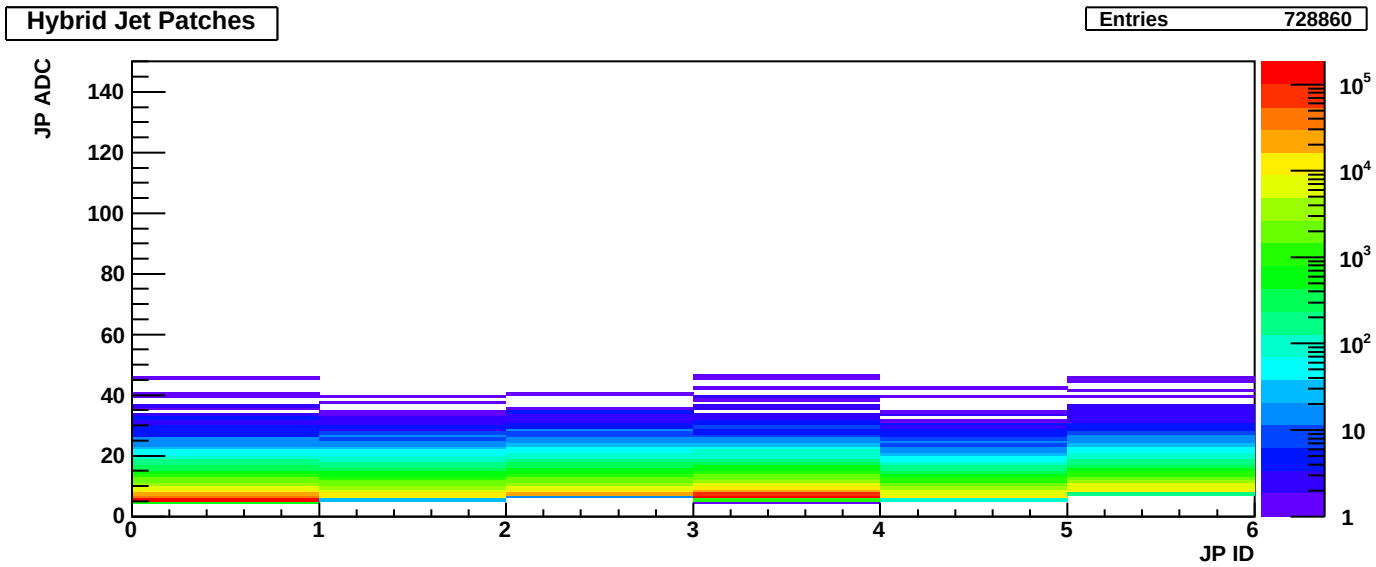

Barrel EMC L0 Input - Patch Sum
Entries 1.09329e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

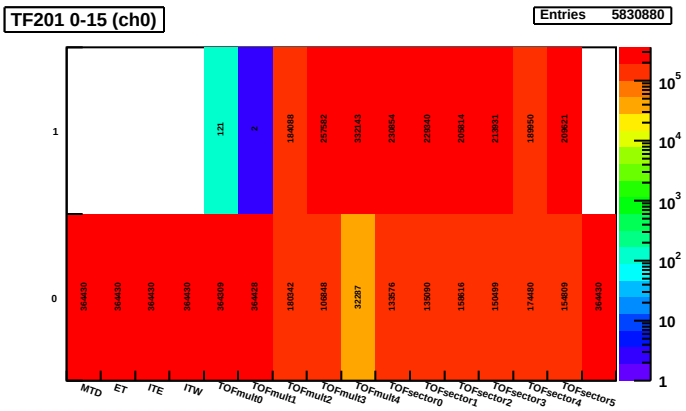

Endcap EMC L0 Input - High Tower
Entries 3.27987e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

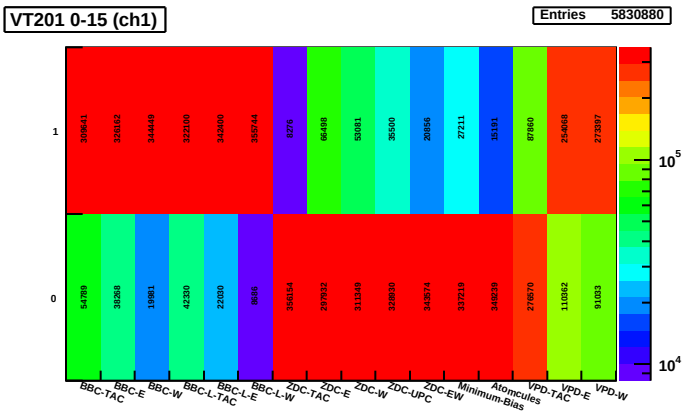

Endcap EMC L0 Input - Patch Sum
Entries 3.27987e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

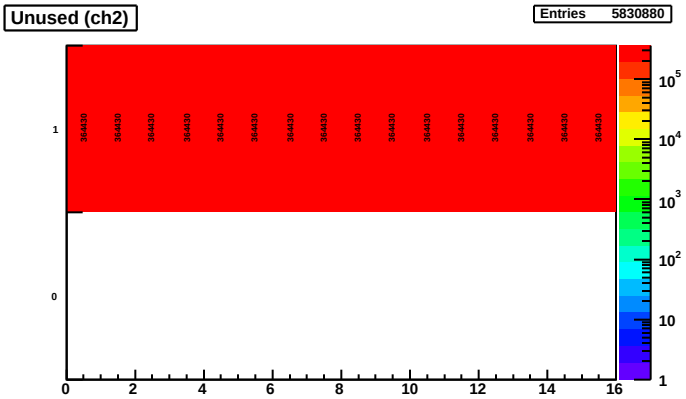

Barrel Jet Patches
Entries 6559740
JP ADC
JP ID

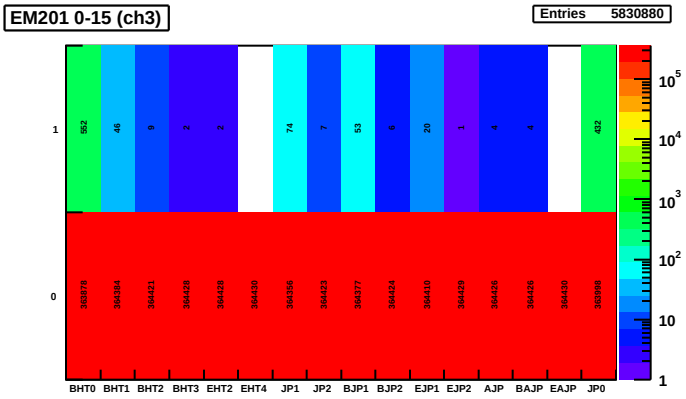

Endcap Jet Patches
Entries 2186580
JP ADC
JP ID

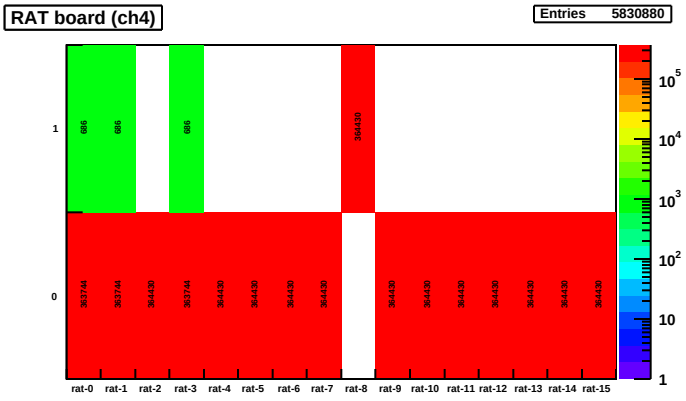

Hybrid Jet Patches
Entries 728860
JP ADC
JP ID

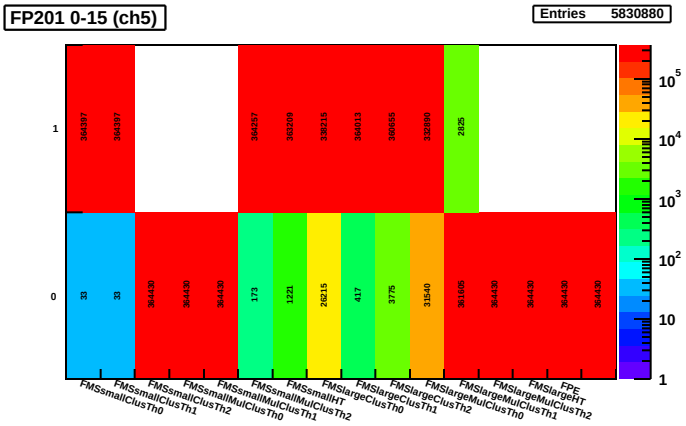

TF201 0-15 (ch0)
Entries 5830880
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

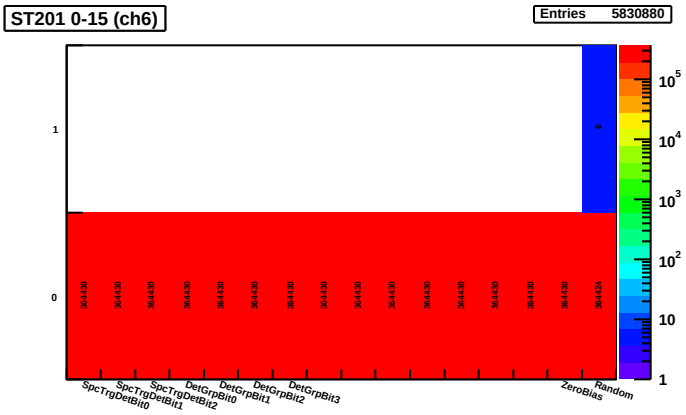

VT201 0-15 (ch1)
Entries 5830880
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

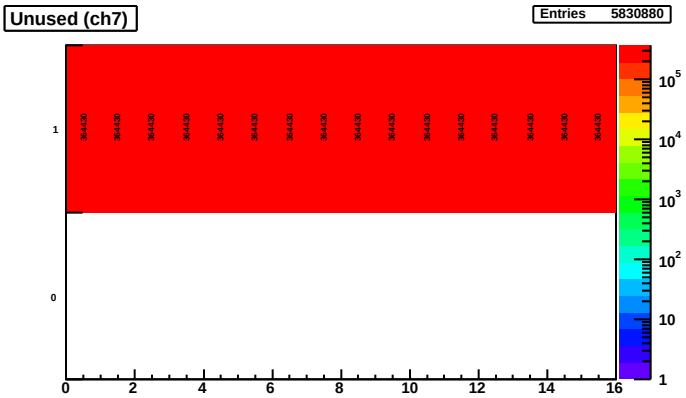

Unused (ch2)
Entries 5830880

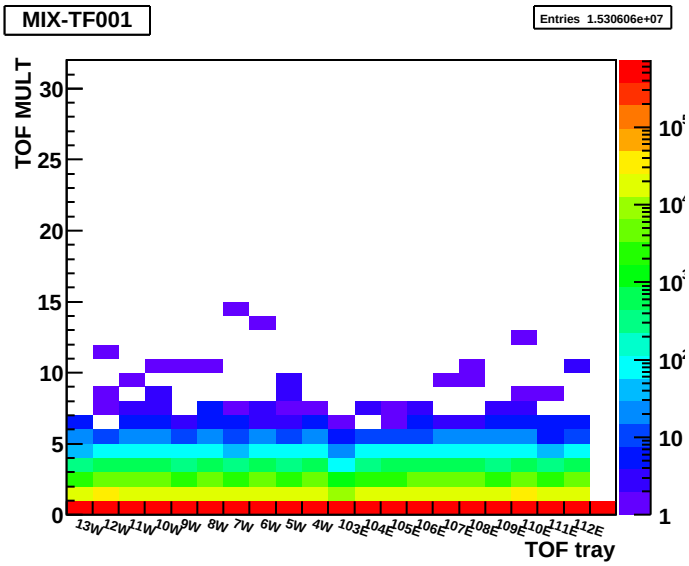

EM201 0-15 (ch3)
Entries 5830880
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

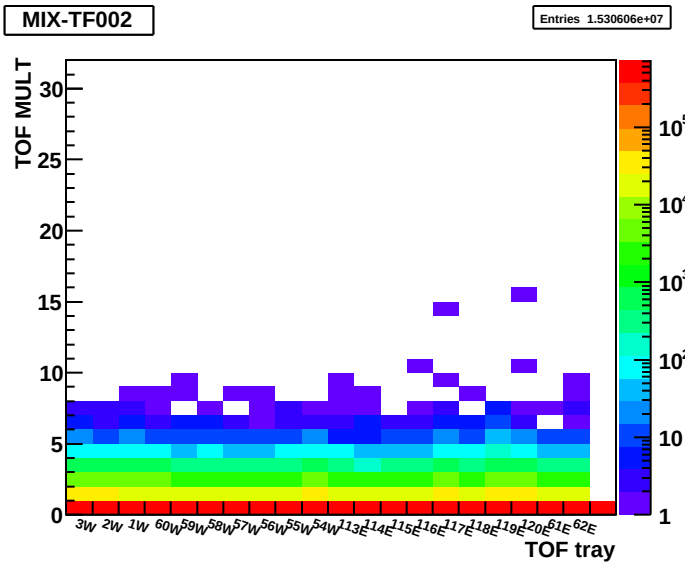

RAT board (ch4)
Entries 5830880
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

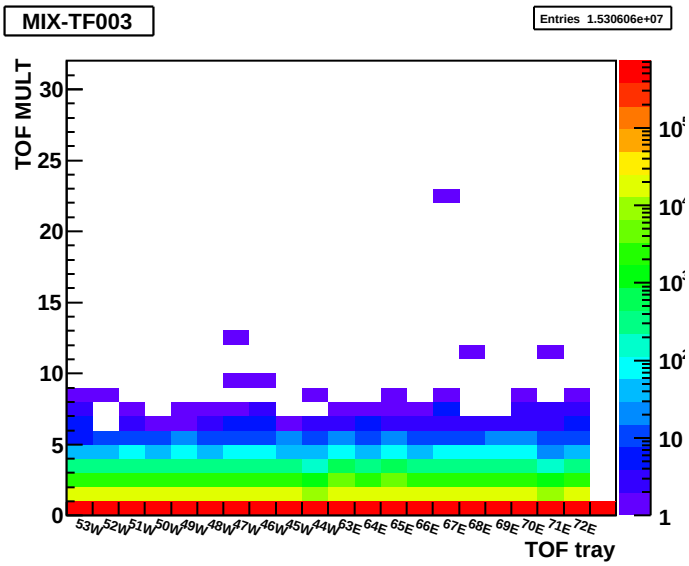

FP201 0-15 (ch5)
Entries 5830880
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

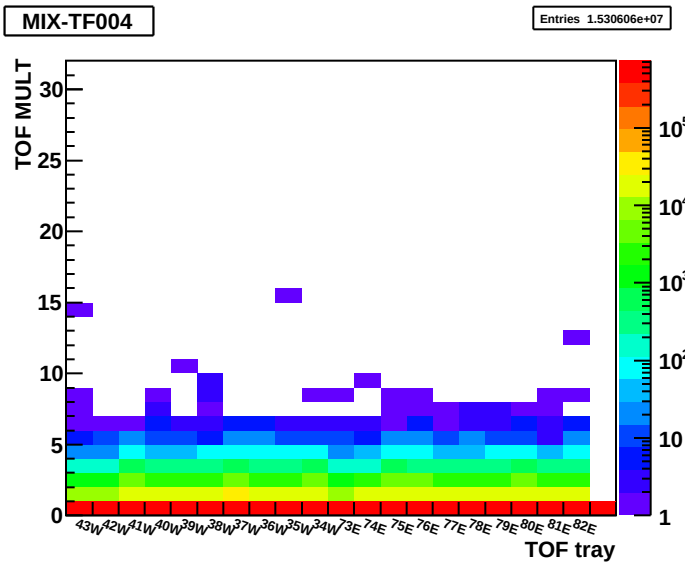

ST201 0-15 (ch6)
Entries 5830880
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

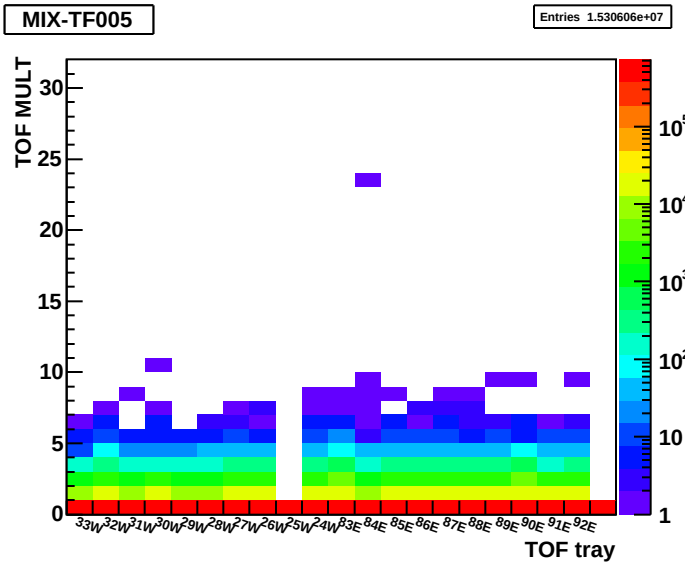

Unused (ch7)
Entries 5830880

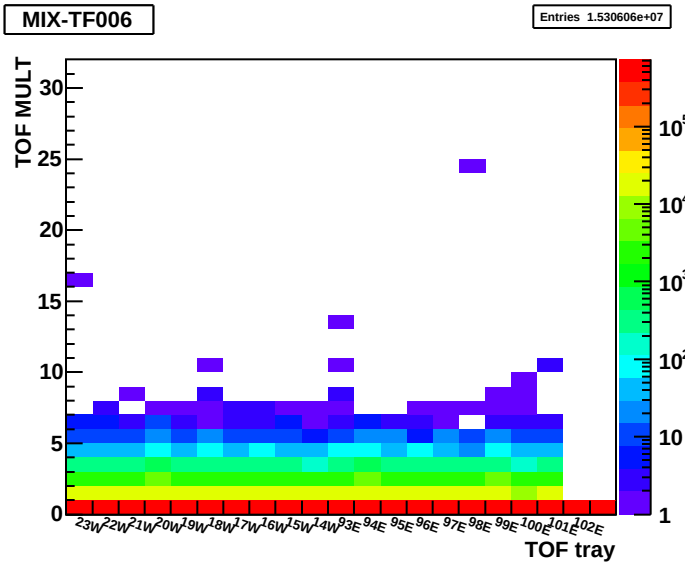

MIX-TF001
Entries 1.530606e+07
TOF MULT
TOF tray

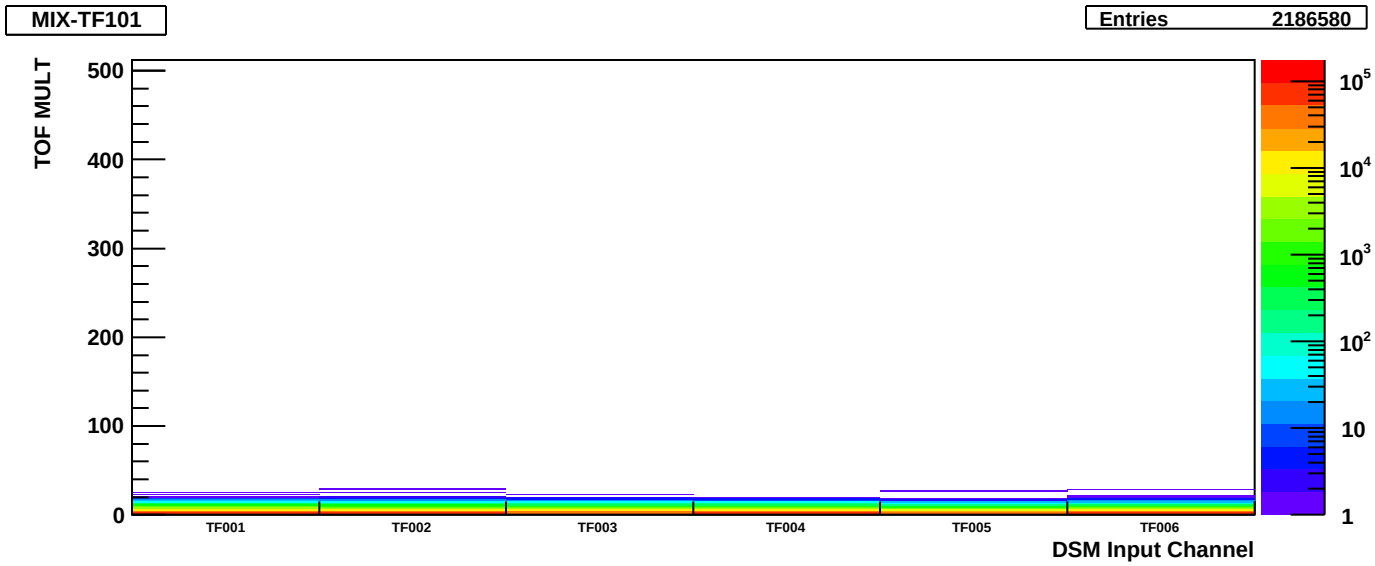

MIX-TF002
Entries 1.530606e+07
TOF MULT
TOF tray

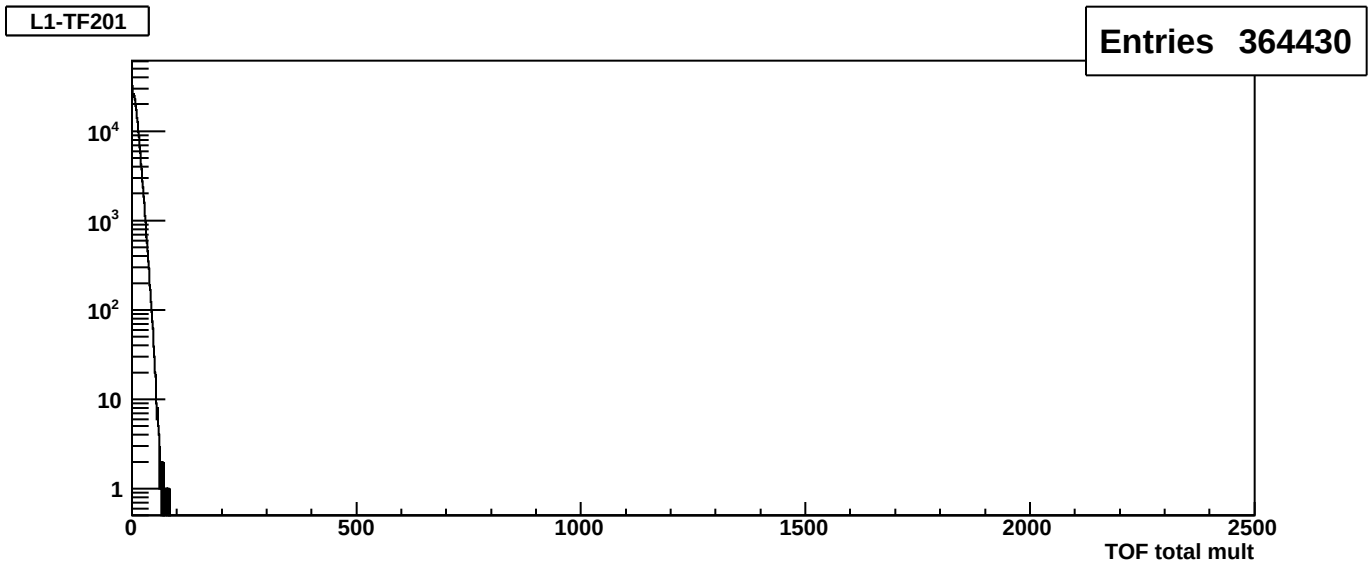

MIX-TF003
Entries 1.530606e+07
TOF MULT
TOF tray

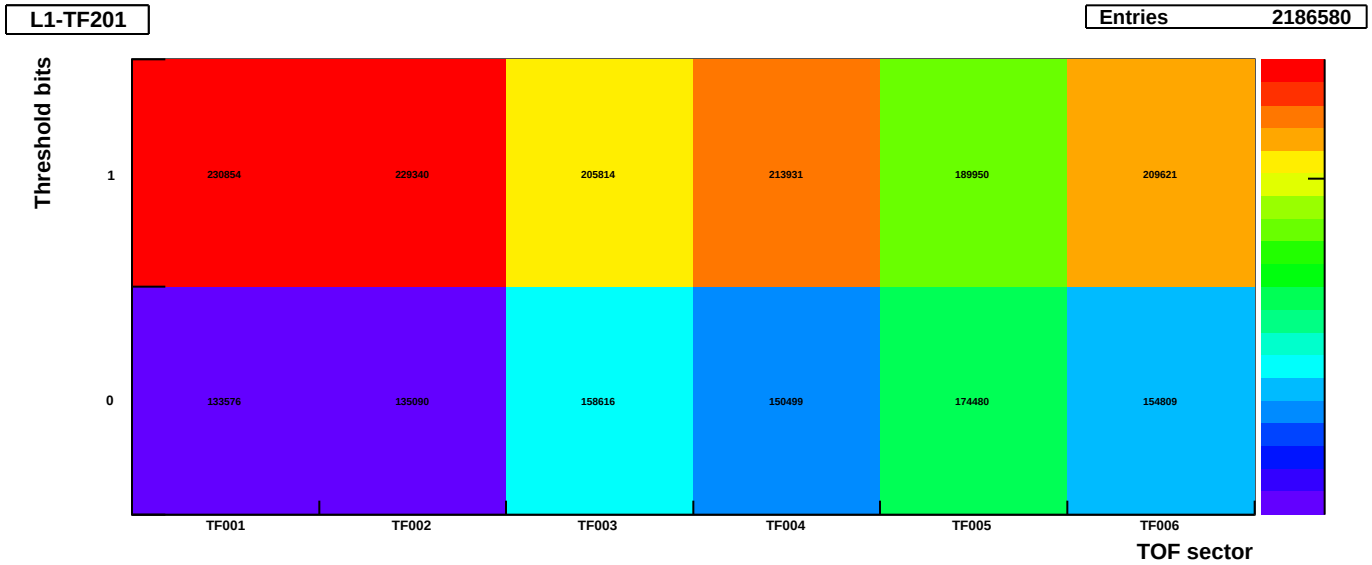

MIX-TF004
Entries 1.530606e+07
TOF MULT
TOF tray

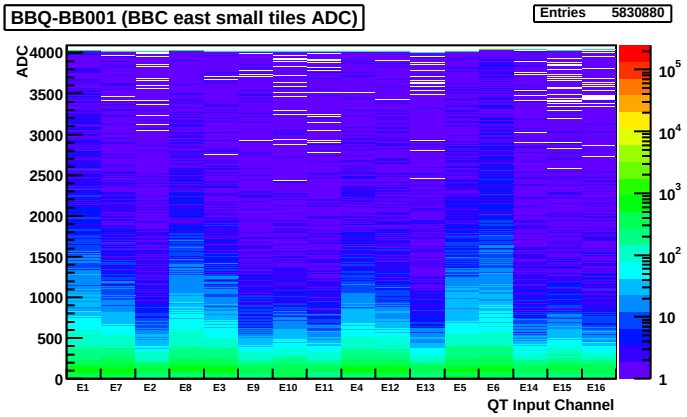

MIX-TF005
Entries 1.530606e+07
TOF MULT
TOF tray

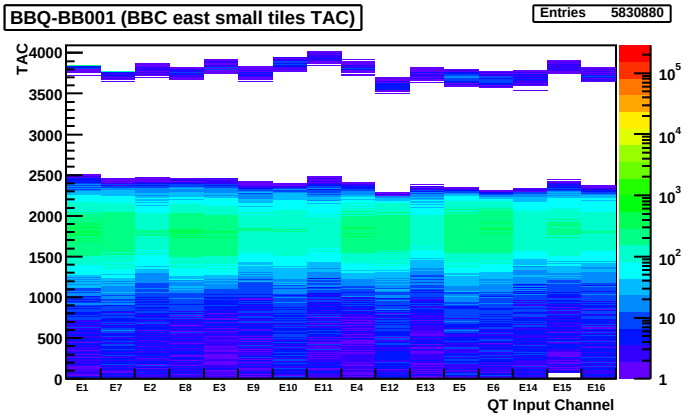

MIX-TF006
Entries 1.530606e+07
TOF MULT
TOF tray

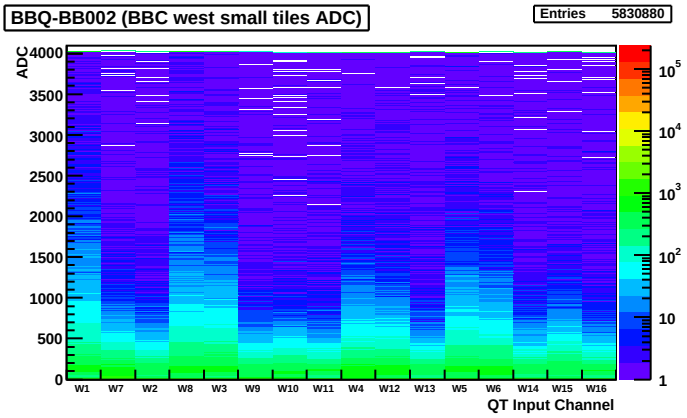

MIX-TF101
Entries 2186580
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

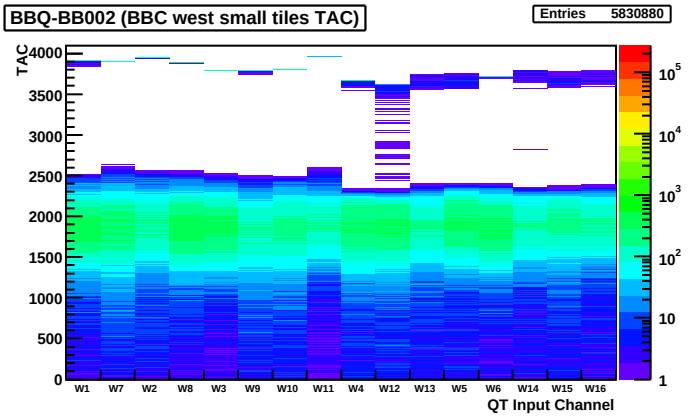

L1-TF201
Entries 364430
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

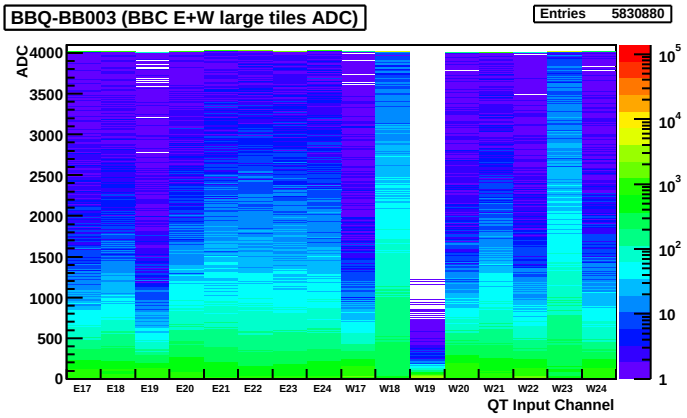

L1-TF201
Entries 2186580
Threshold bits
1
0
230854
229340
205814
213931
189950
209621
133576
135090
158616
150499
174480
154809
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

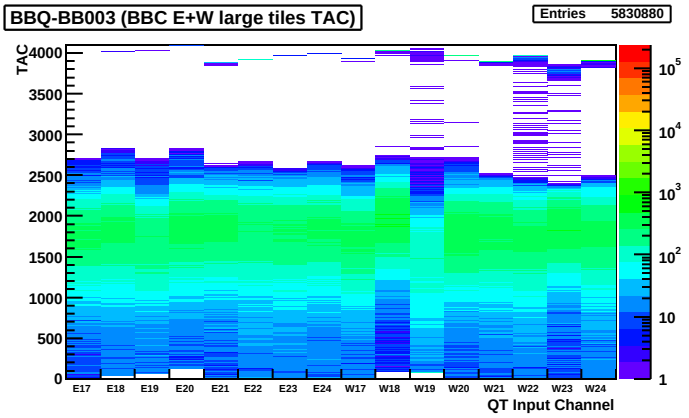

BBQ-BB001 (BBC east small tiles ADC)
Entries 5830880
ADC
QT Input Channel

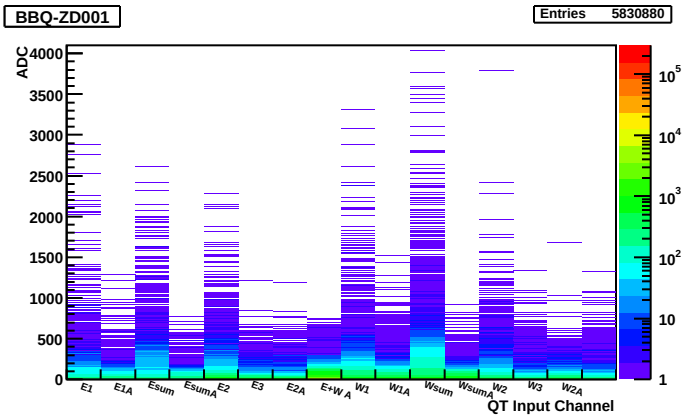

BBQ-BB001 (BBC east small tiles TAC)
Entries 5830880
TAC
QT Input Channel

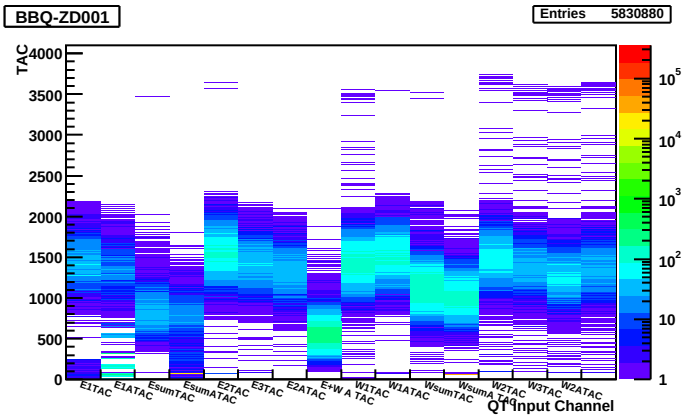

BBQ-BB002 (BBC west small tiles ADC)
Entries 5830880
ADC
QT Input Channel

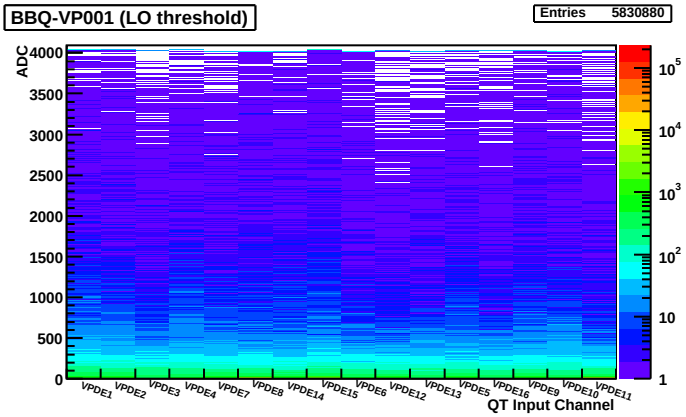

BBQ-BB002 (BBC west small tiles TAC)
Entries 5830880
TAC
QT Input Channel

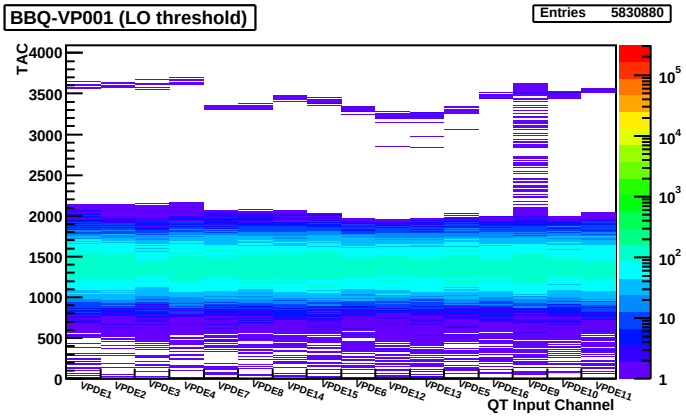

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 5830880
ADC
QT Input Channel

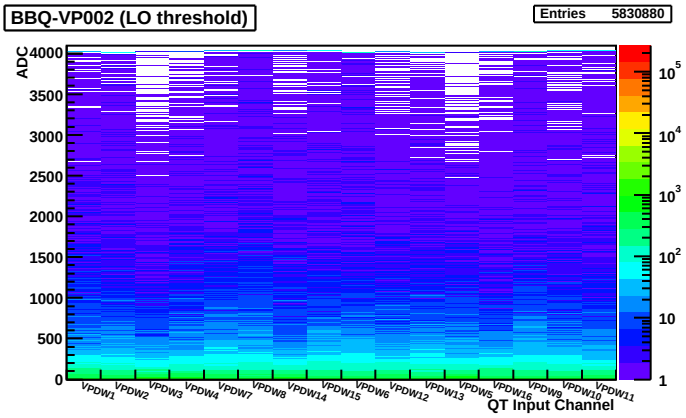

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 5830880
TAC
QT Input Channel

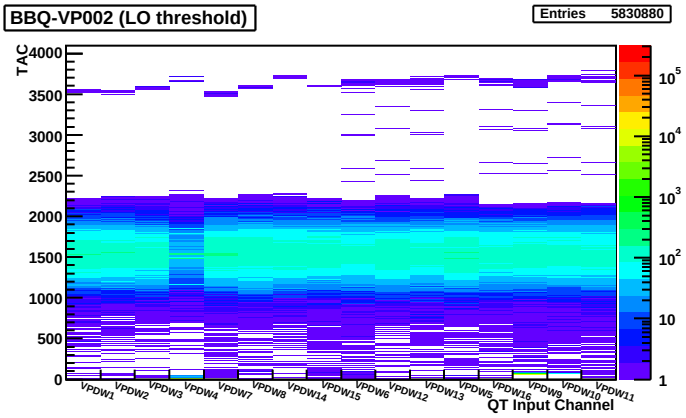

BBQ-ZD001
Entries 5830880
ADC
QT Input Channel

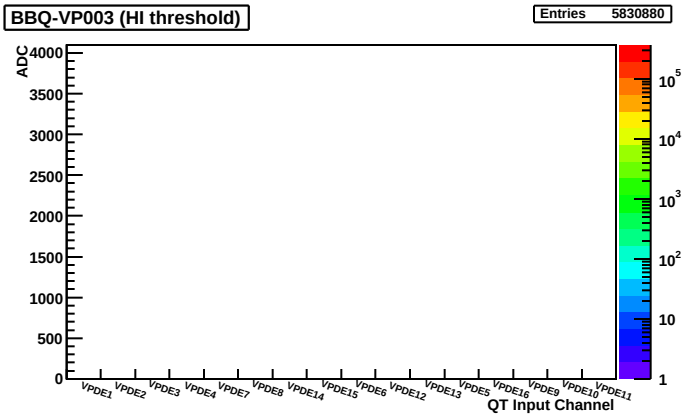

BBQ-ZD001
Entries 5830880
TAC
QT Input Channel

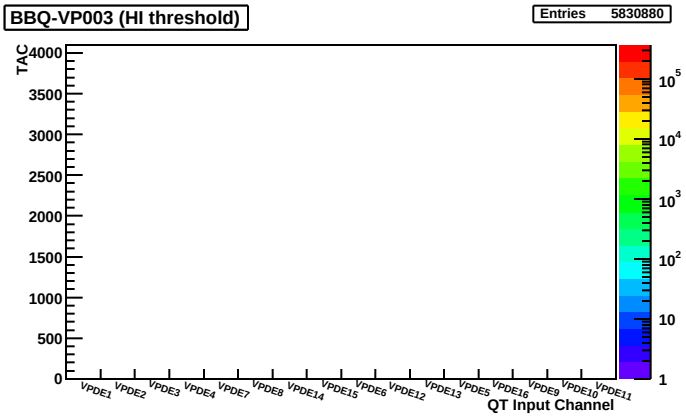

BBQ-VP001 (LO threshold)
Entries 5830880
ADC
QT Input Channel

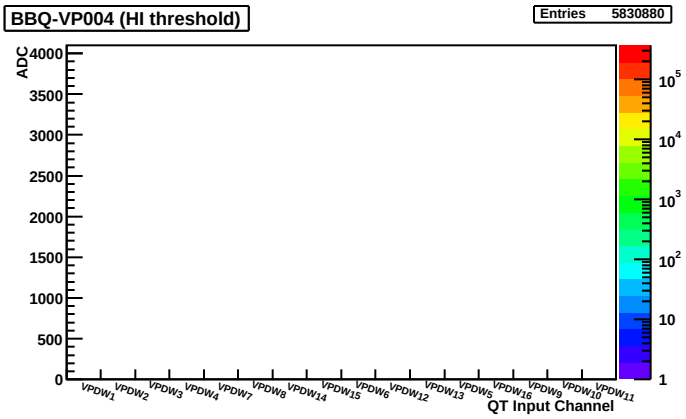

BBQ-VP001 (LO threshold)
Entries 5830880
TAC
QT Input Channel

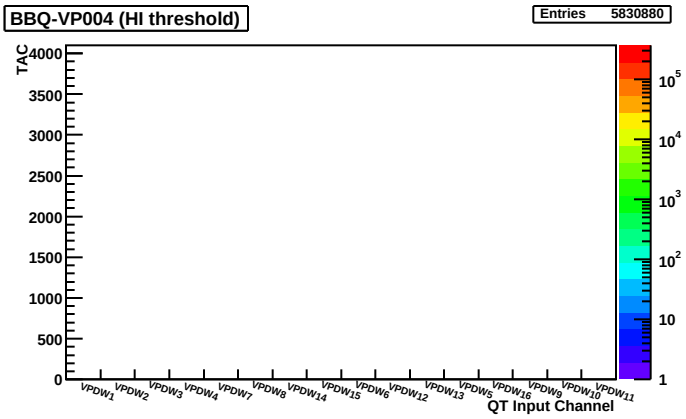

BBQ-VP002 (LO threshold)
Entries 5830880
ADC
QT Input Channel

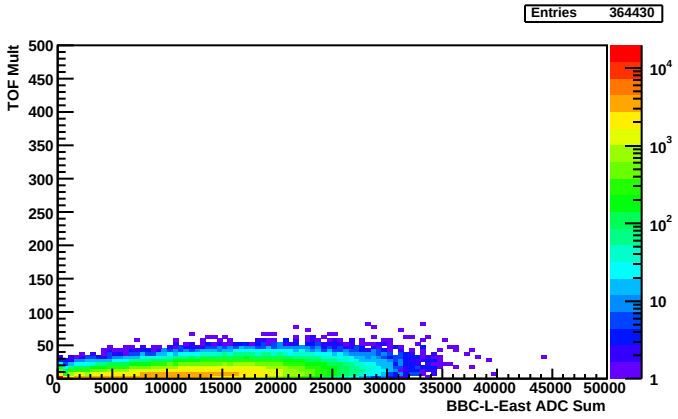

BBQ-VP002 (LO threshold)
Entries 5830880
TAC
QT Input Channel

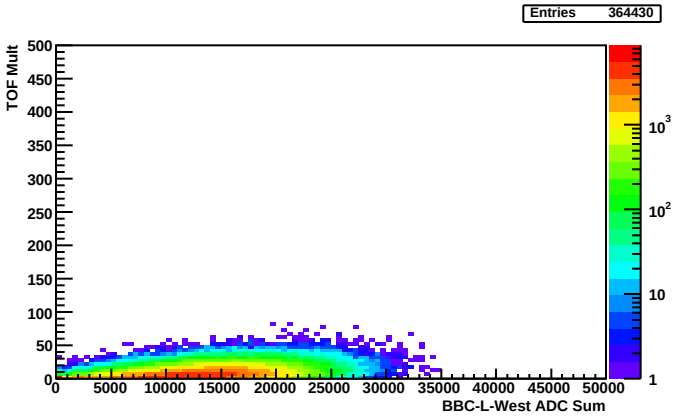

BBQ-VP003 (HI threshold)
Entries 5830880
ADC
QT Input Channel

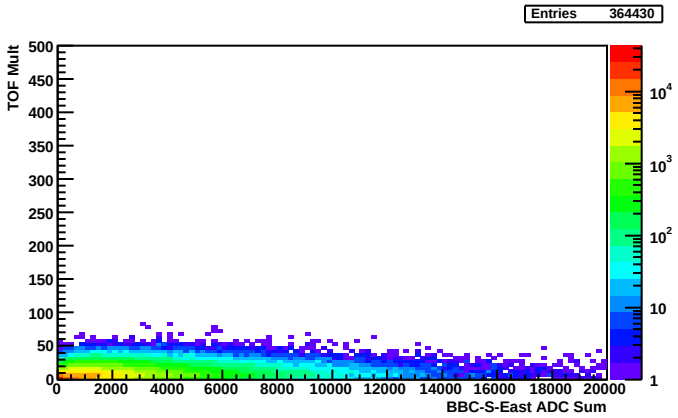

BBQ-VP003 (HI threshold)
Entries 5830880
TAC
QT Input Channel

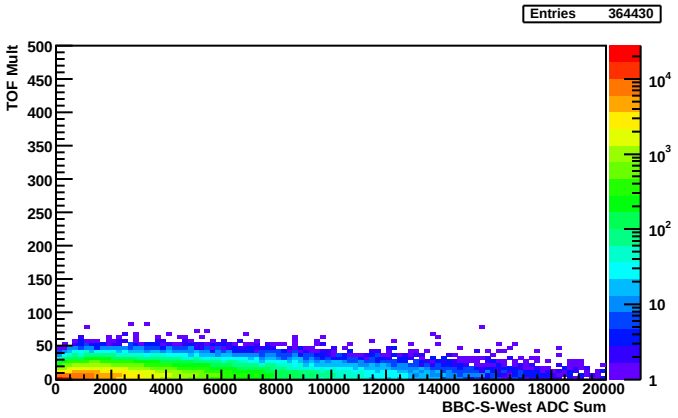

BBQ-VP004 (HI threshold)
Entries 5830880
ADC
QT Input Channel

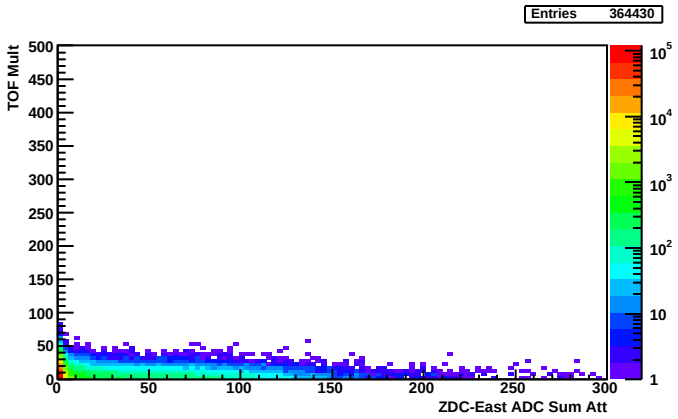

BBQ-VP004 (HI threshold)
Entries 5830880
TAC
QT Input Channel

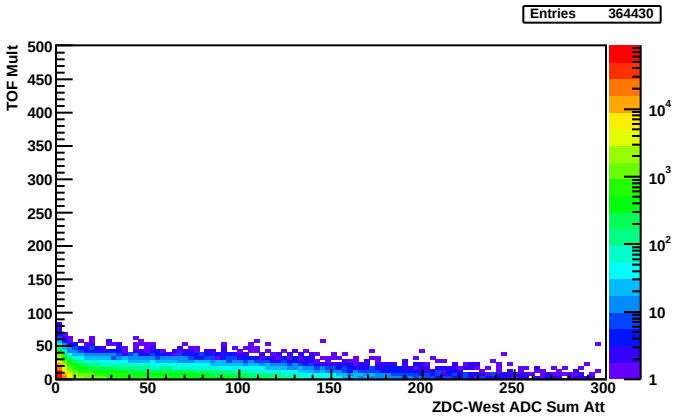

Entries 364430
TOF Mult
BBC-L-East ADC Sum

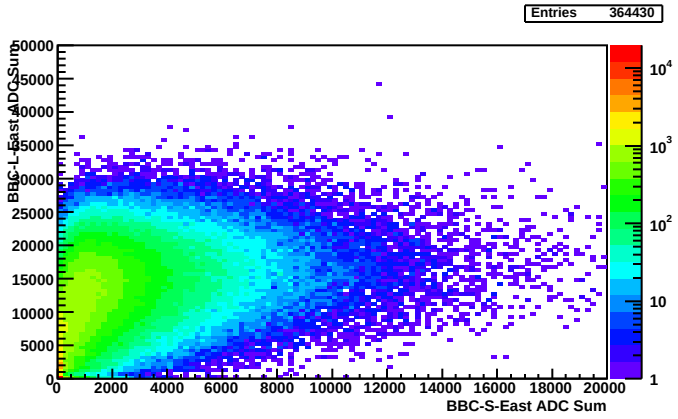

Entries 364430
TOF Mult
BBC-L-West ADC Sum

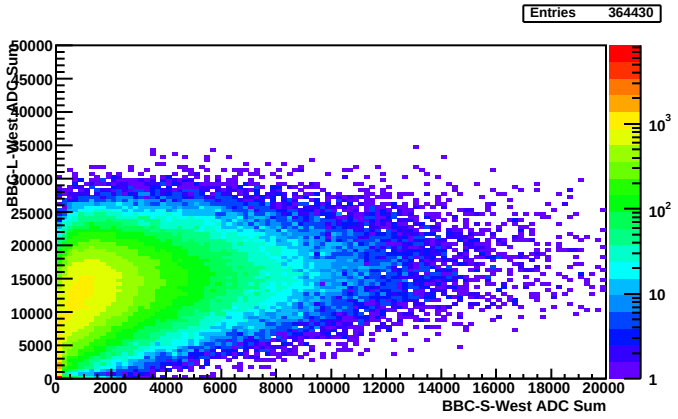

Entries 364430
TOF Mult
BBC-S-East ADC Sum

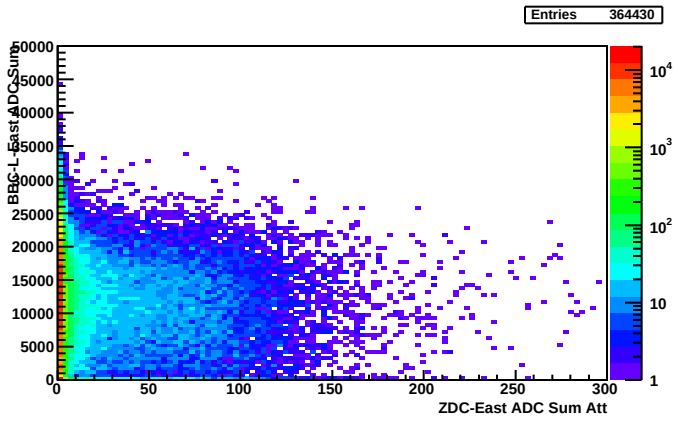

Entries 364430
TOF Mult
BBC-S-West ADC Sum

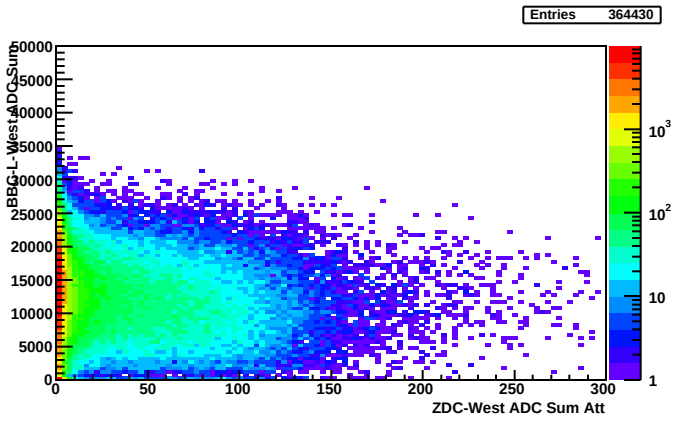

Entries 364430
TOF Mult
ZDC-East ADC Sum Att

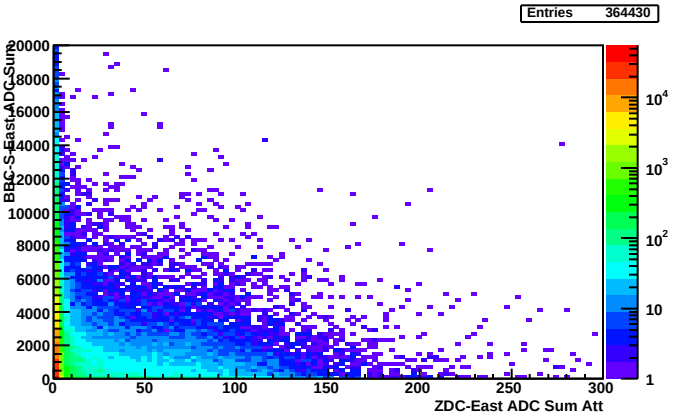

Entries 364430
TOF Mult
ZDC-West ADC Sum Att

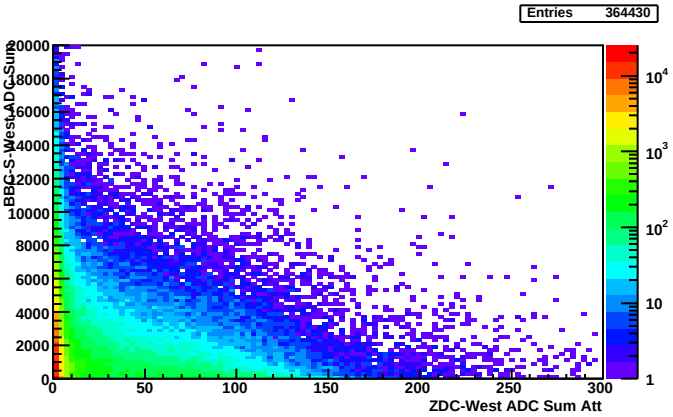

Entries 364430
BBC-L-East ADC Sum
BBC-S-East ADC Sum

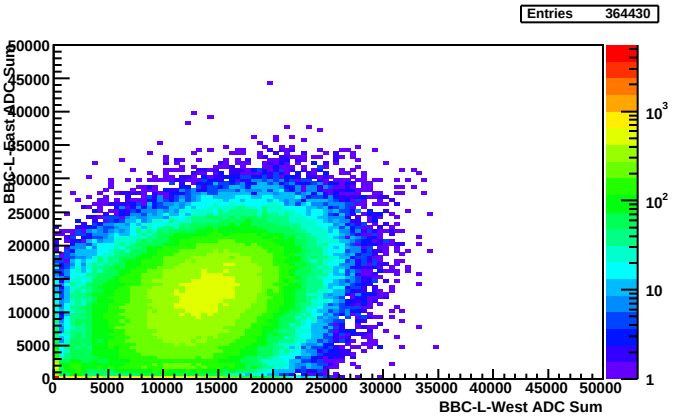

Entries 364430
BBC-L-West ADC Sum
BBC-S-West ADC Sum

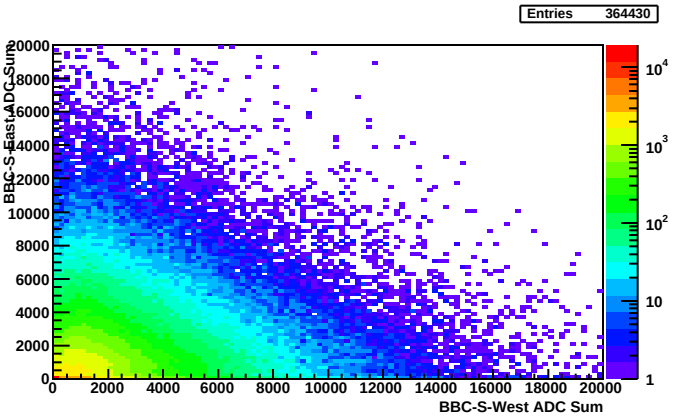

Entries 364430
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

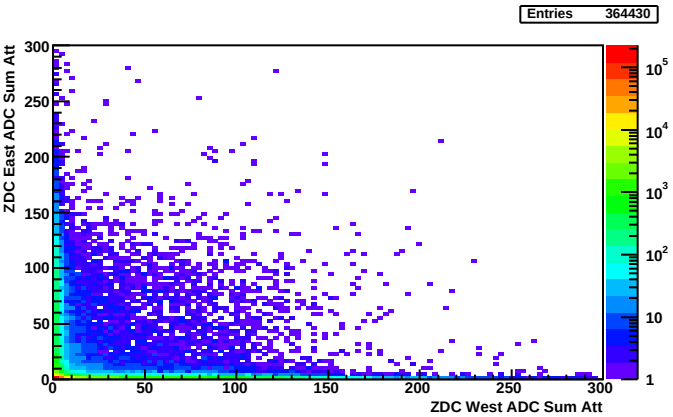

Entries 364430
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

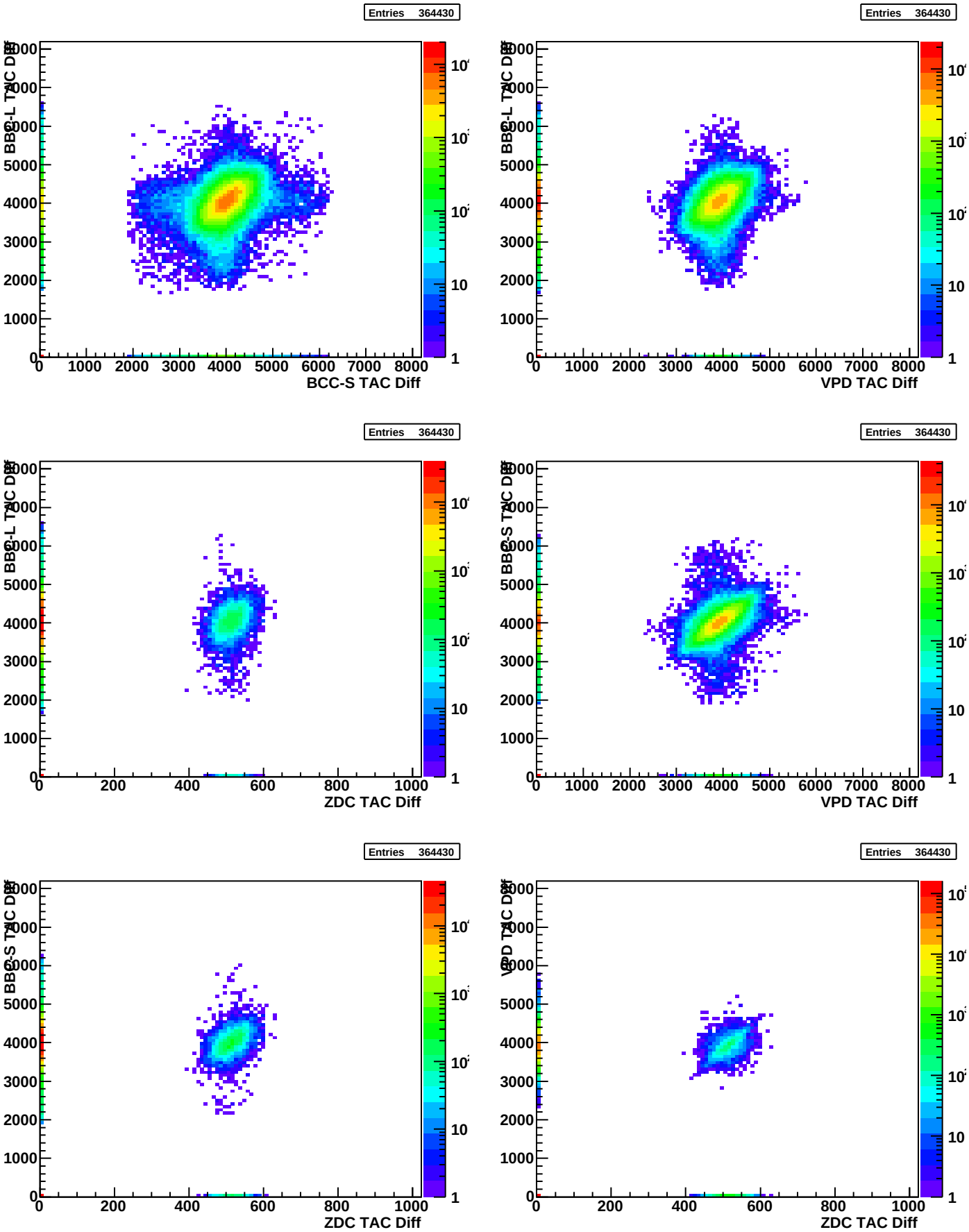

Entries 364430
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

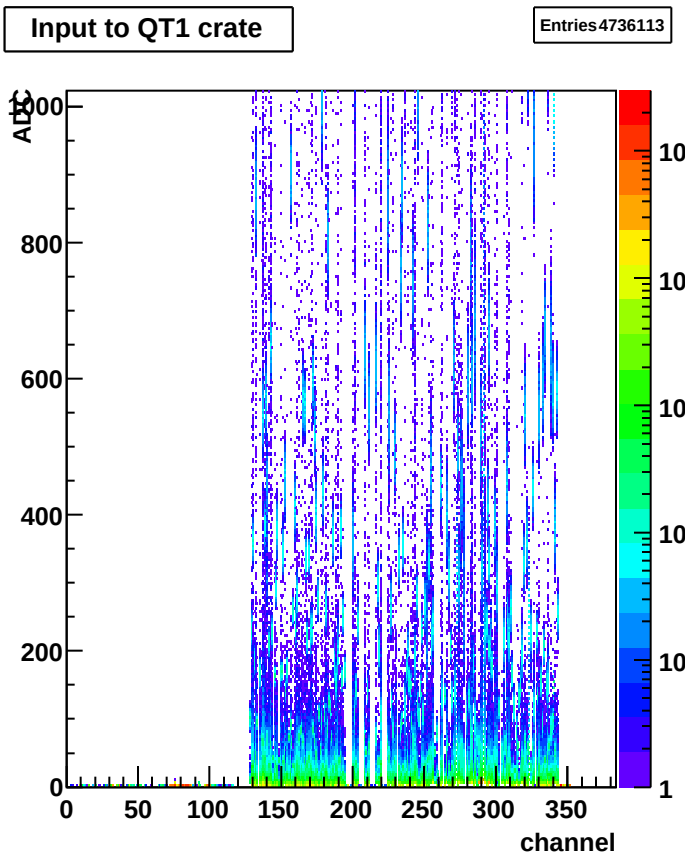

Entries 364430
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

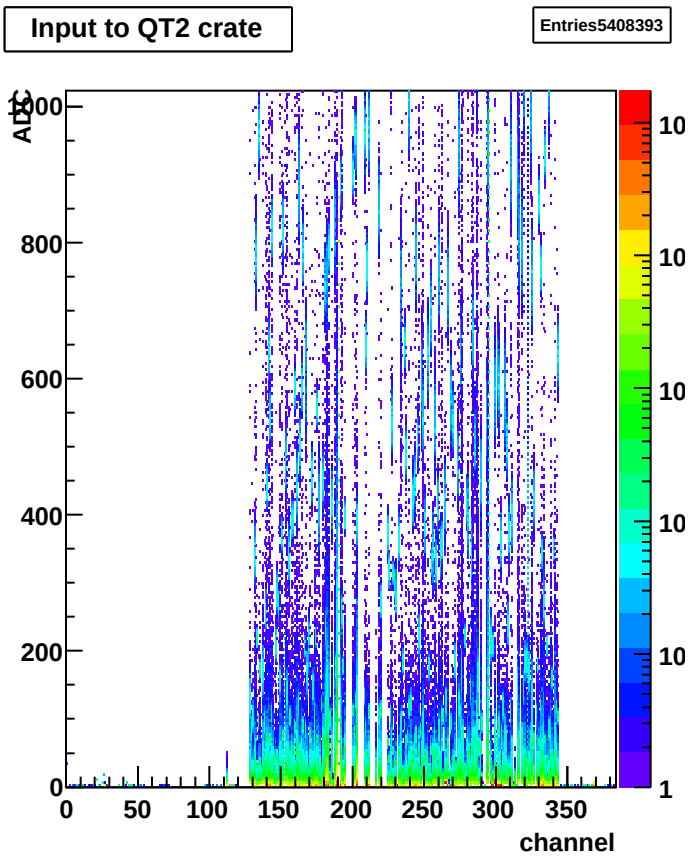

Entries 364430
BBC-L-East ADC Sum
BBC-L-West ADC Sum

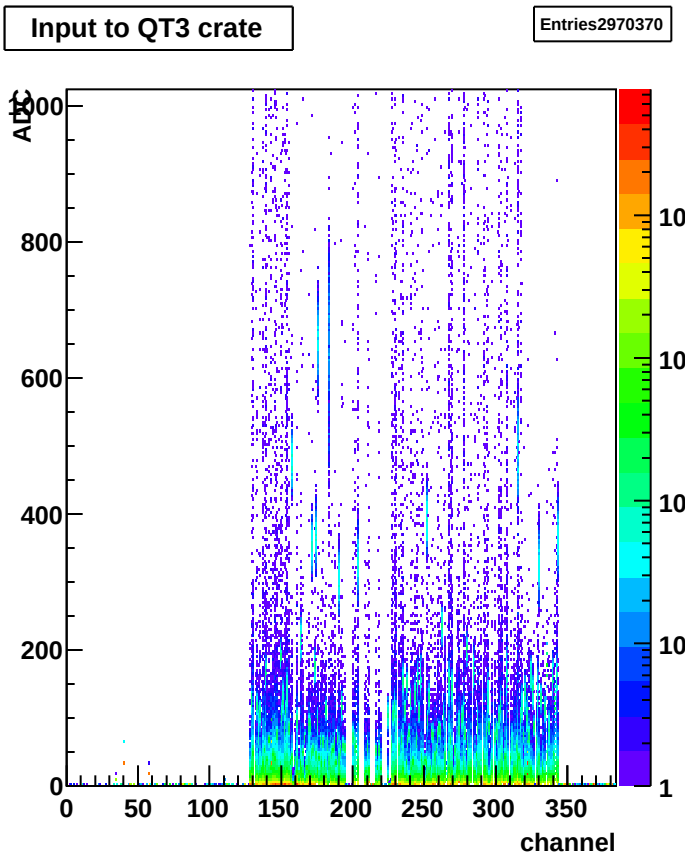

Entries 364430
BBC-S-East ADC Sum
BBC-S-West ADC Sum

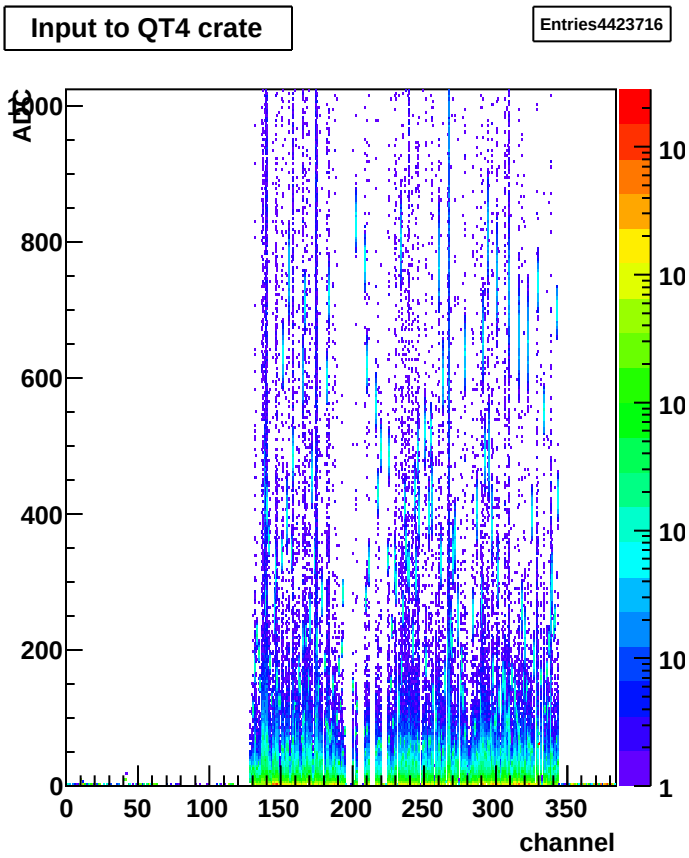

Entries 364430
ZDC East ADC Sum Att
ZDC West ADC Sum Att

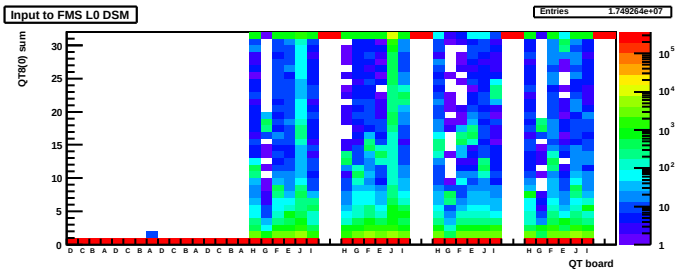

Entries 364430
BBC-L TAC Diff
BCC-S TAC Diff
Entries 364430
BBC-L TAC Diff
VPD TAC Diff
Entries 364430
BBC-L TAC Diff
ZDC TAC Diff
Entries 364430
BBC-S TAC Diff
VPD TAC Diff
Entries 364430
BBC-S TAC Diff
ZDC TAC Diff
Entries 364430
VPD TAC Diff
ZDC TAC Diff

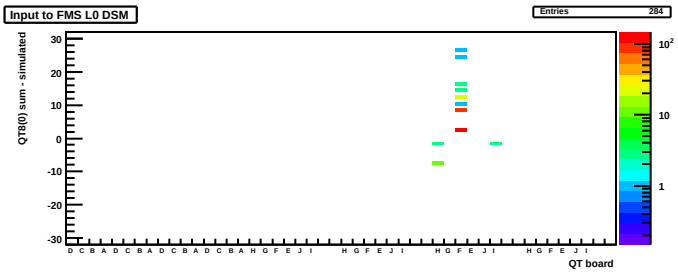

Input to QT1 crate
Entries4736113
ADC
channel

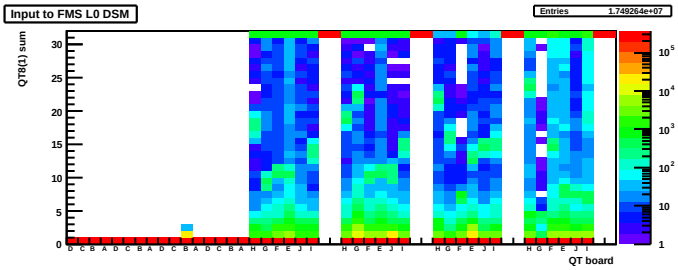

Input to QT2 crate
Entries5408393
ADC
channel

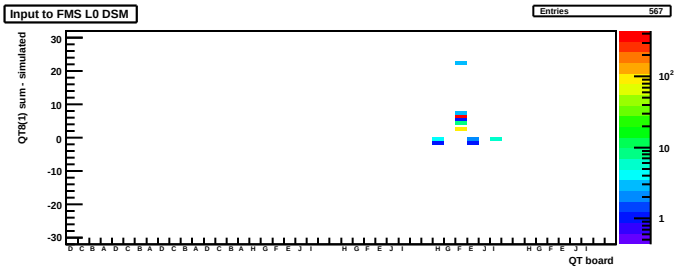

Input to QT3 crate
Entries2970370
ADC
channel

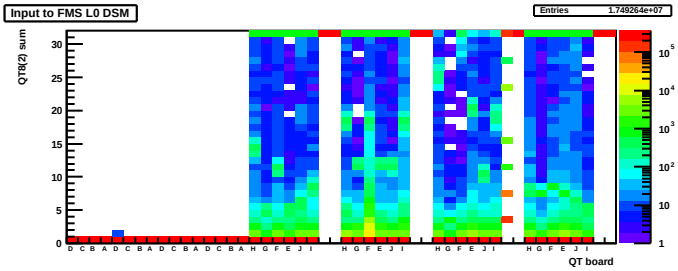

Input to QT4 crate
Entries4423716
ADC
channel

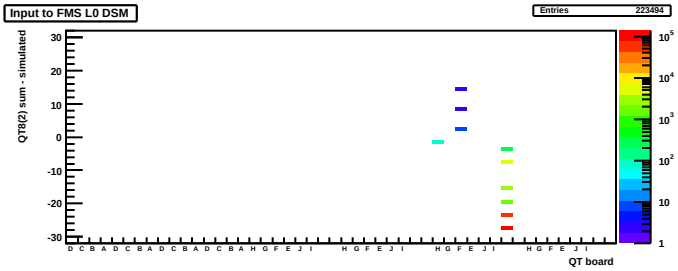

Input to FMS L0 DSM
Entries 1.749264e+07
QT8(0) sum
QT board

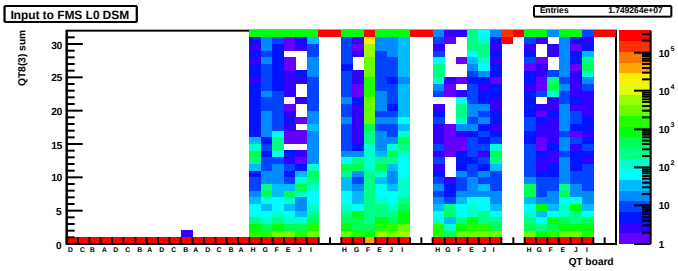

Input to FMS L0 DSM
Entries 284
QT8(0) sum - simulated
QT board

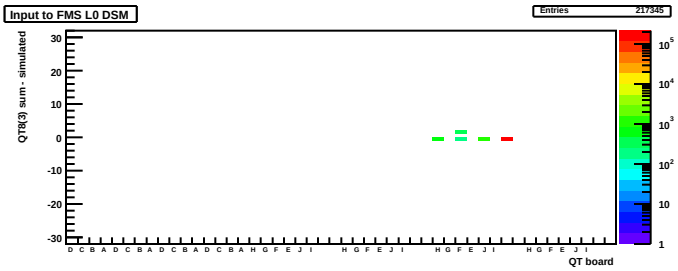

Input to FMS L0 DSM
Entries 1.749264e+07
QT8(1) sum
QT board

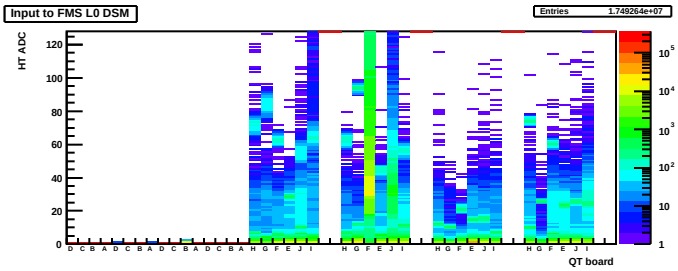

Input to FMS L0 DSM
Entries 567
QT8(1) sum - simulated
QT board

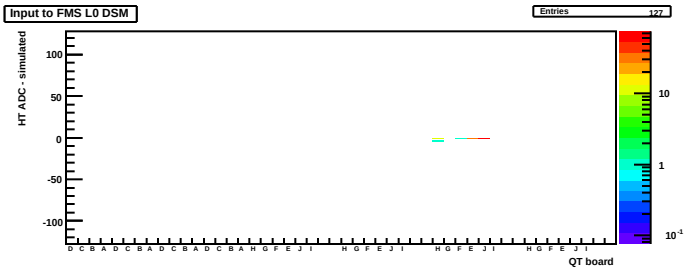

Input to FMS L0 DSM
Entries 1.749264e+07
QT8(2) sum
QT board

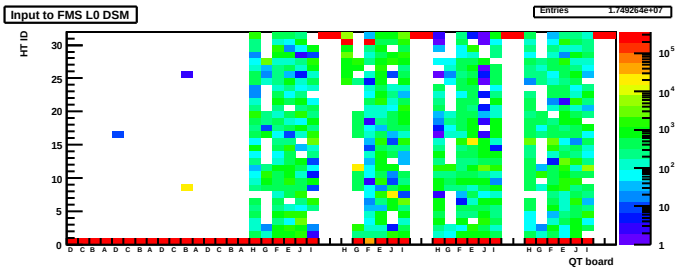

Input to FMS L0 DSM
Entries 223494
QT8(2) sum - simulated
QT board

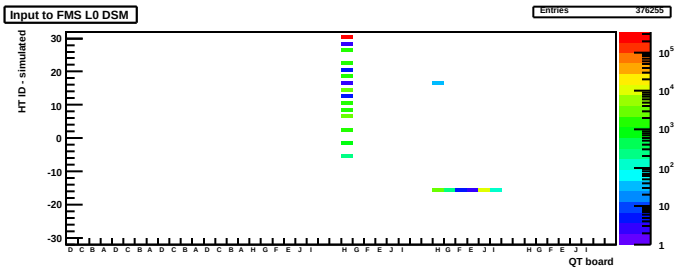

Input to FMS L0 DSM
Entries 1.749264e+07
QT8(3) sum
QT board

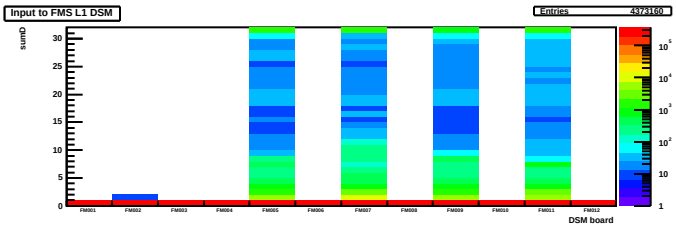

Input to FMS L0 DSM
Entries 217345
QT8(3) sum - simulated
QT board

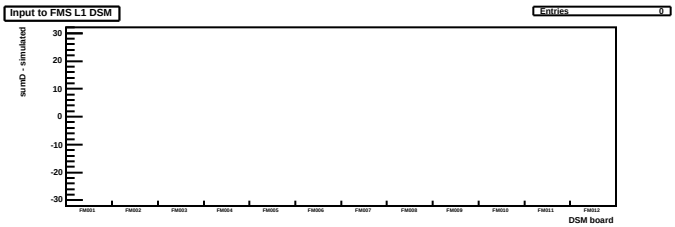

Input to FMS L0 DSM
Entries 1.749264e+07
HT ADC
QT board

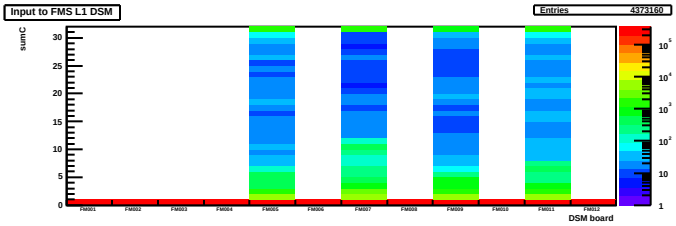

Input to FMS L0 DSM
Entries 127
HT ADC - simulated
QT board

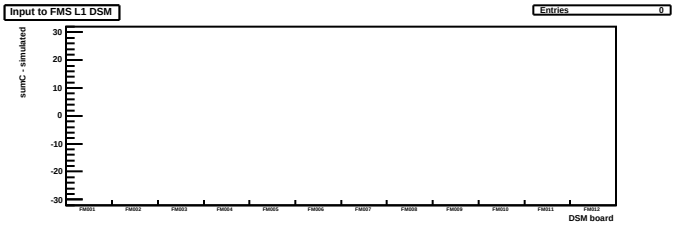

Input to FMS L0 DSM
Entries 1.749264e+07
HT ID
QT board

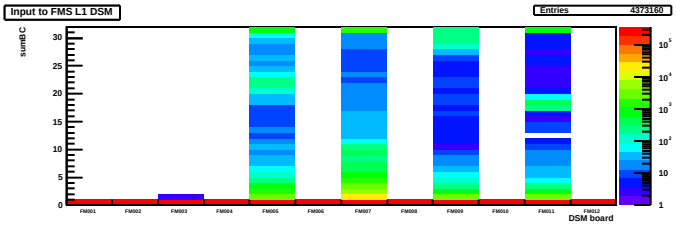

Input to FMS L0 DSM
Entries 376255
HT ID - simulated
QT board

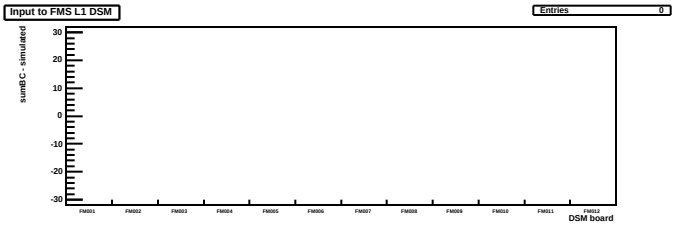

Input to FMS L1 DSM
Entries 4373160
sumD
DSM board

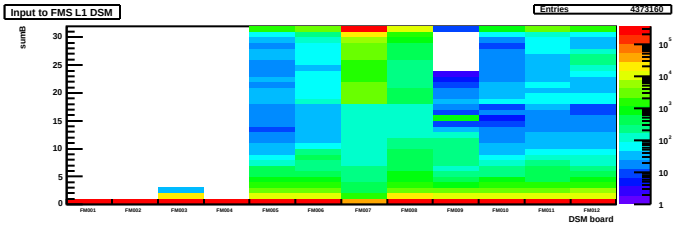

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

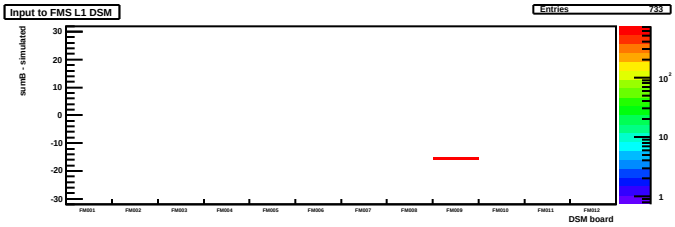

Input to FMS L1 DSM
Entries 4373160
sumC
DSM board

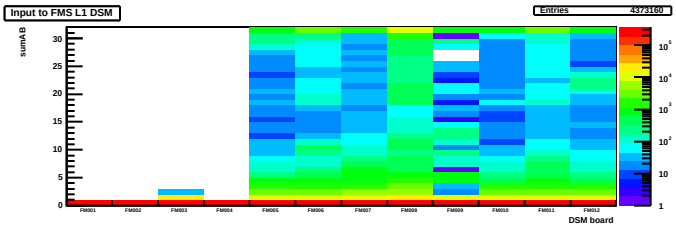

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

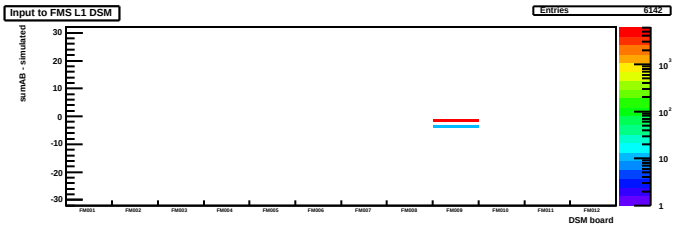

Input to FMS L1 DSM
Entries 4373160
sumBC
DSM board

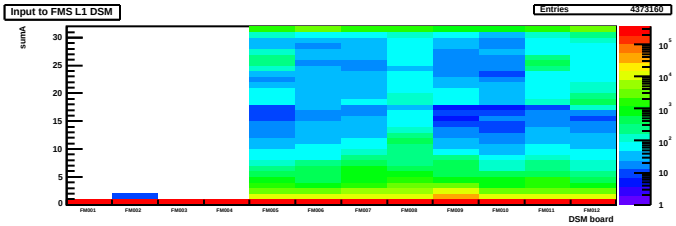

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

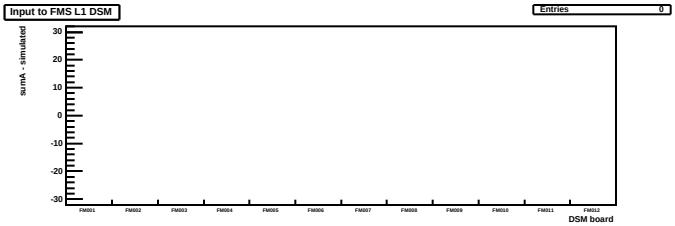

Input to FMS L1 DSM
Entries 4373160
sumB
DSM board

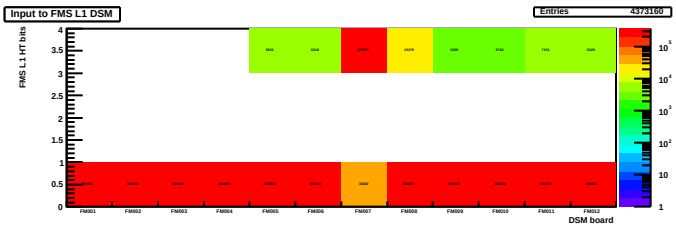

Input to FMS L1 DSM
Entries 733
sumB - simulated
DSM board

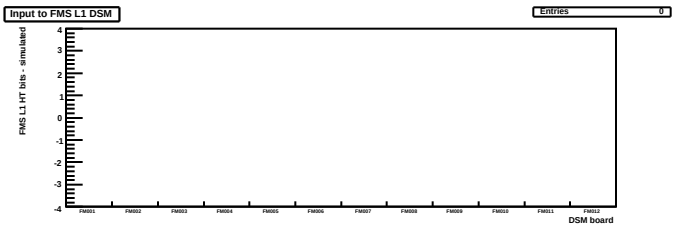

Input to FMS L1 DSM
Entries 4373160
sumAB
DSM board

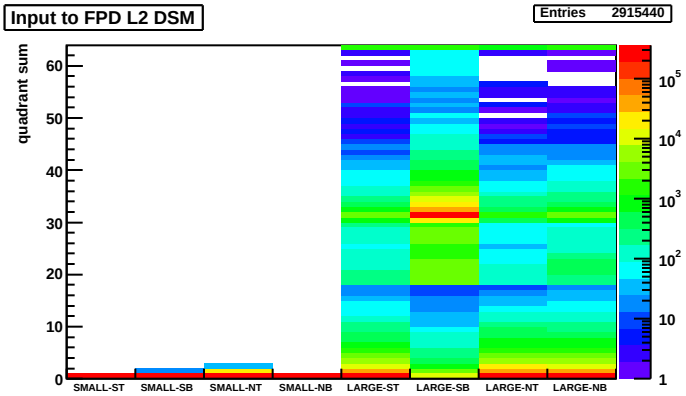

Input to FMS L1 DSM
Entries 6142
sumAB - simulated
DSM board

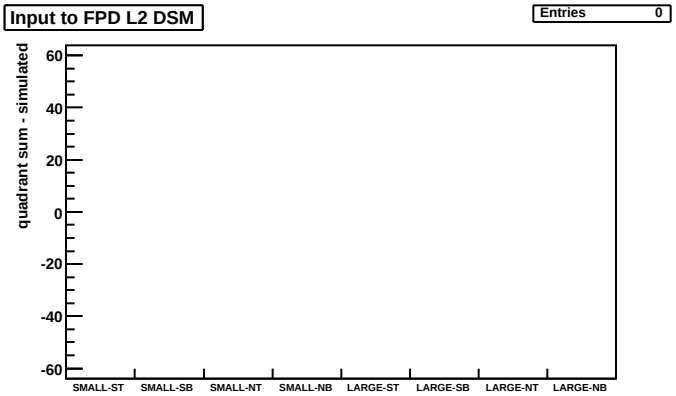

Input to FMS L1 DSM
Entries 4373160
sumA
DSM board

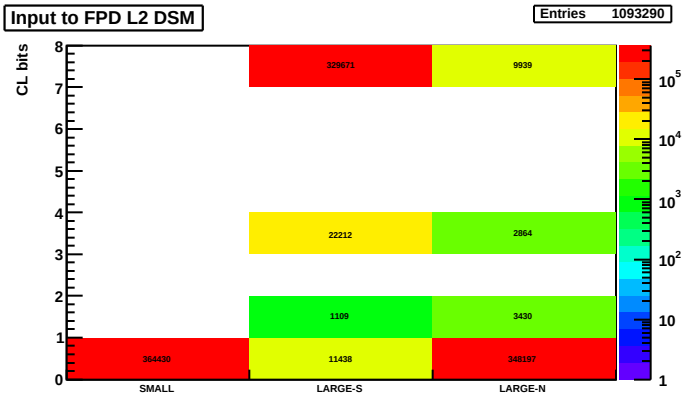

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

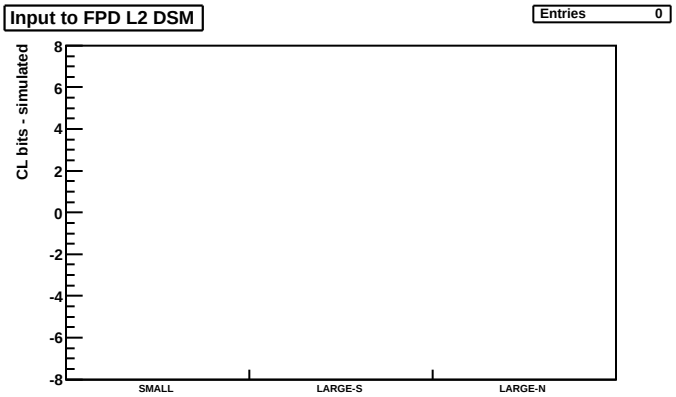

Input to FMS L1 DSM
Entries 4373160
FMS L1 HT bits
DSM board

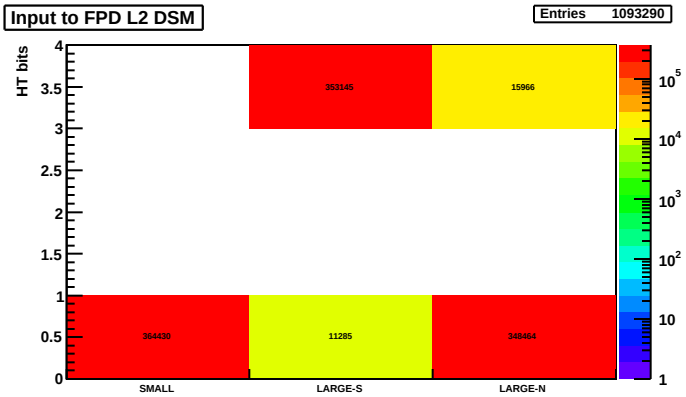

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

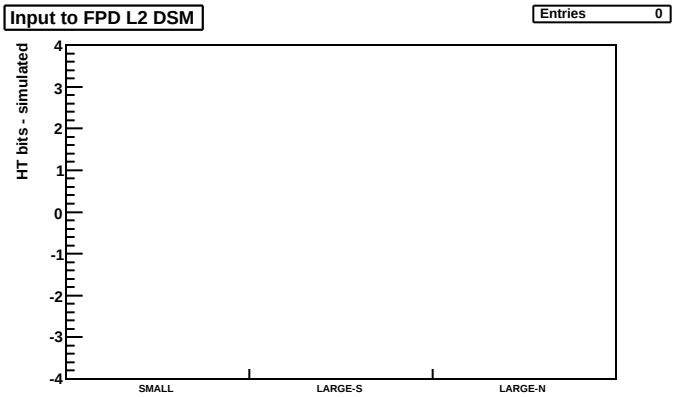

Input to FPD L2 DSM
Entries 2915440
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

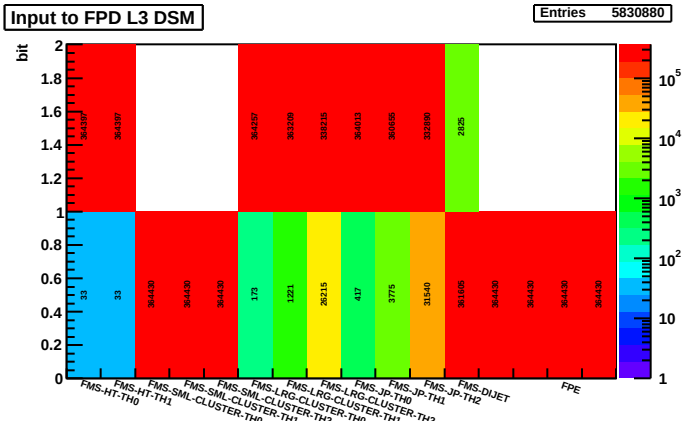

Input to FPD L2 DSM
Entries 0
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

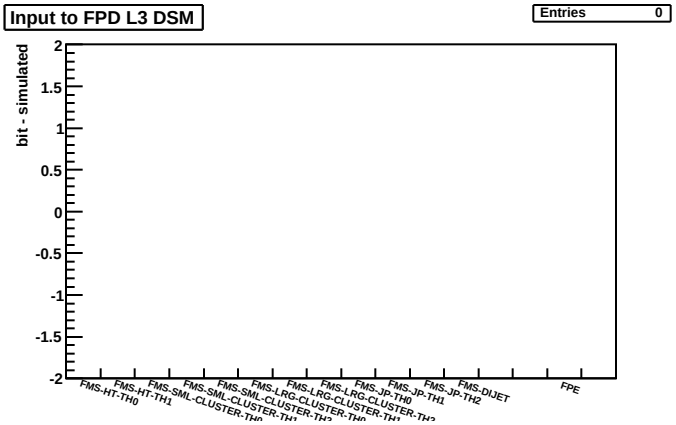

Input to FPD L2 DSM
Entries 1093290
CL bits
329671
9939
22212
2864
1109
3430
364430
11438
348197
SMALL
LARGE-S
LARGE-N

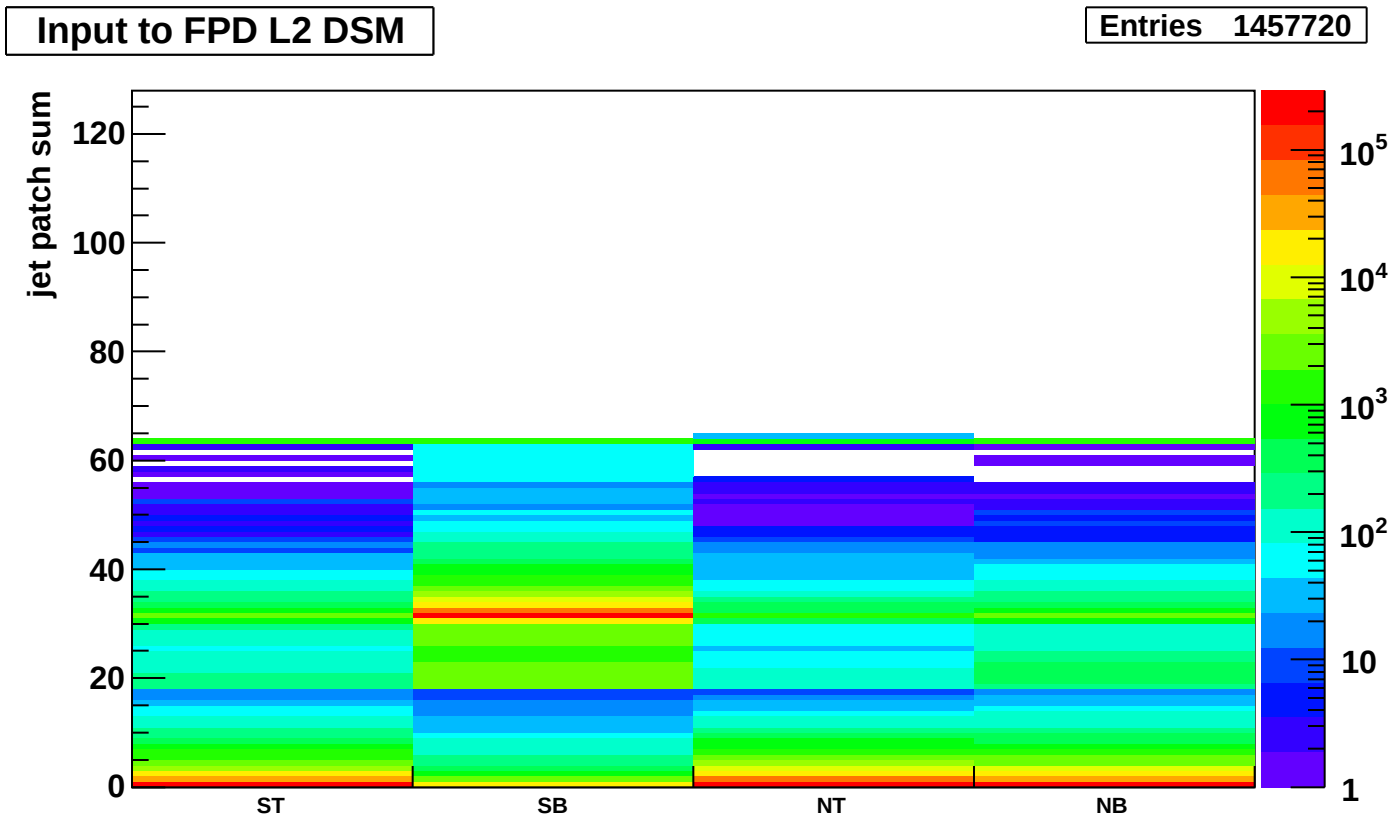

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

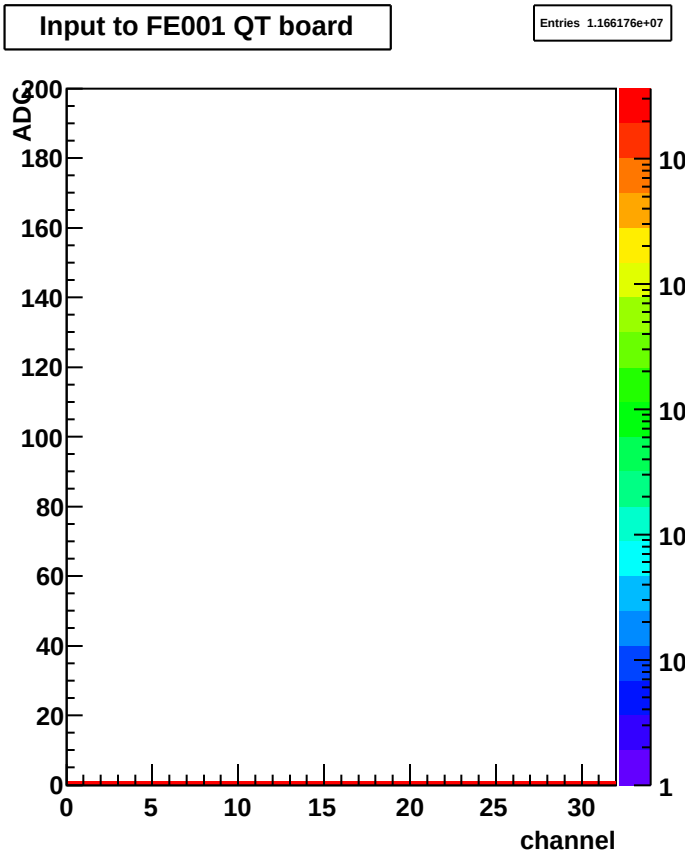

Input to FPD L2 DSM
Entries 1093290
HT bits
353145
15966
364430
11285
348464
SMALL
LARGE-S
LARGE-N

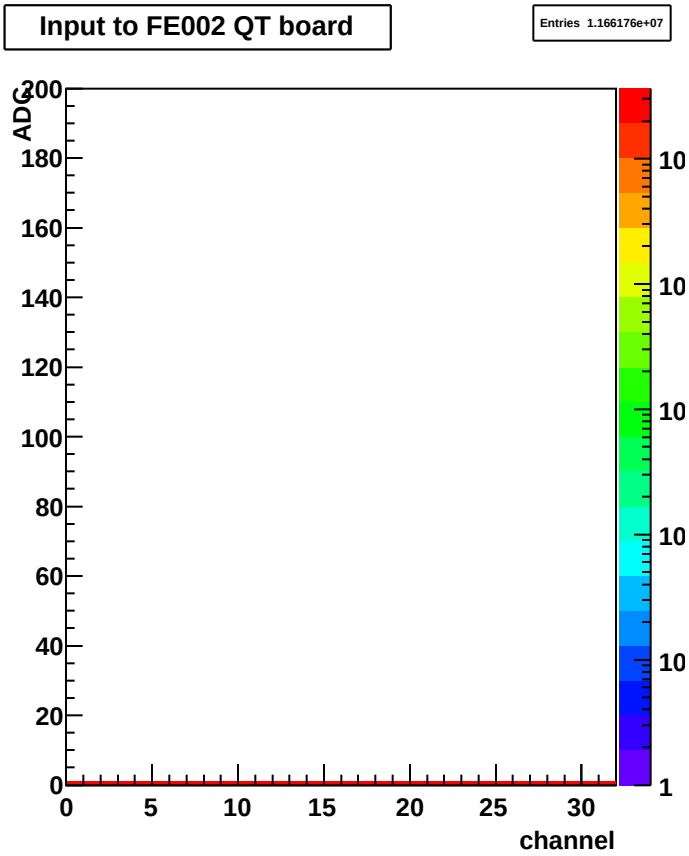

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

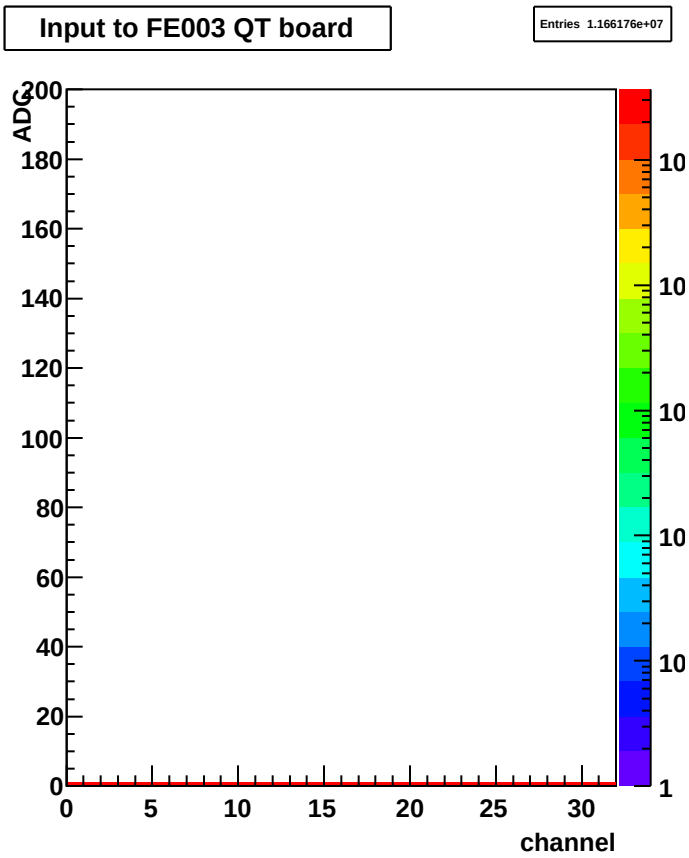

Input to FPD L3 DSM
Entries 5830880
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

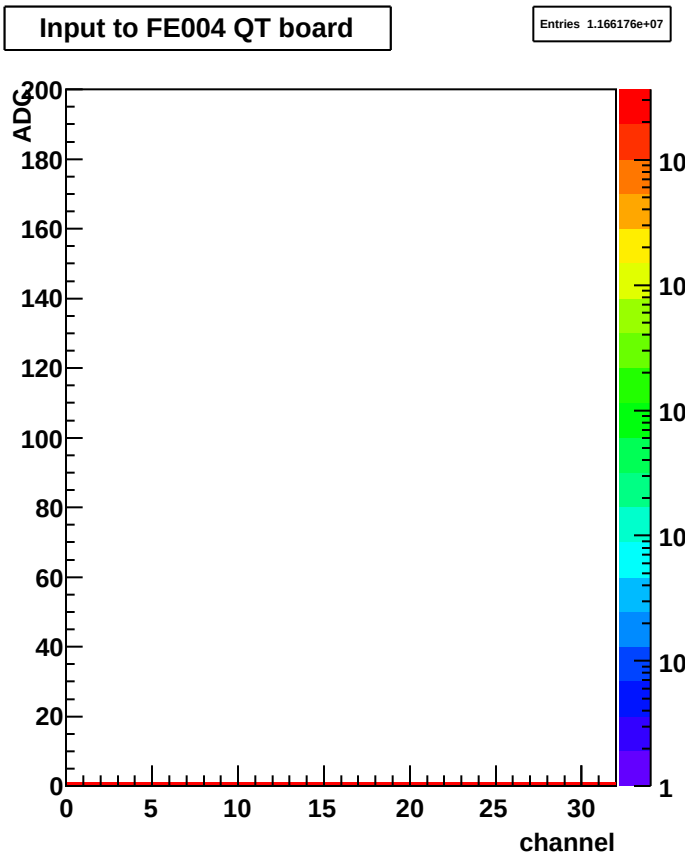

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

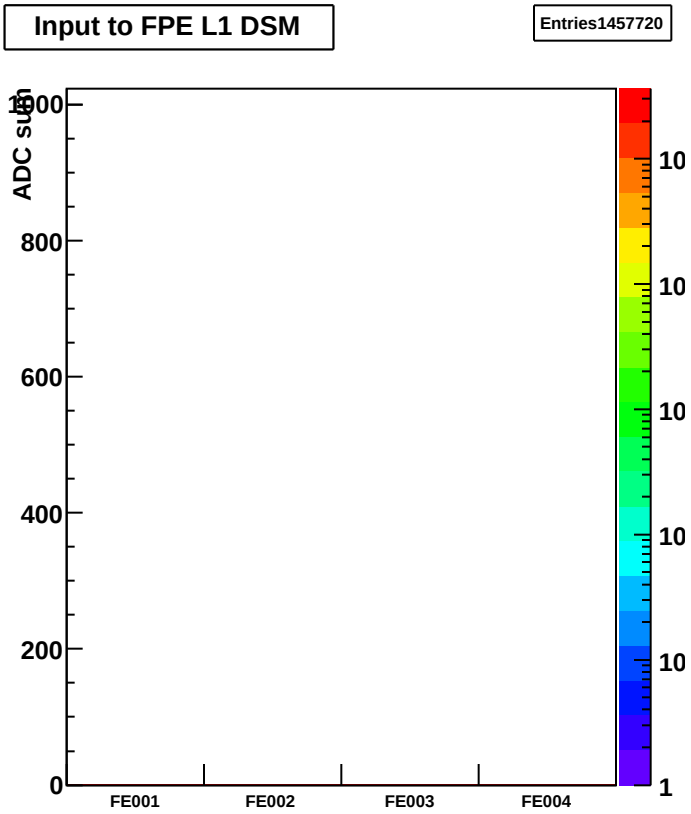

Input to FPD L2 DSM
Entries 1457720
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^5
10^4
10^3
10^2
10
1

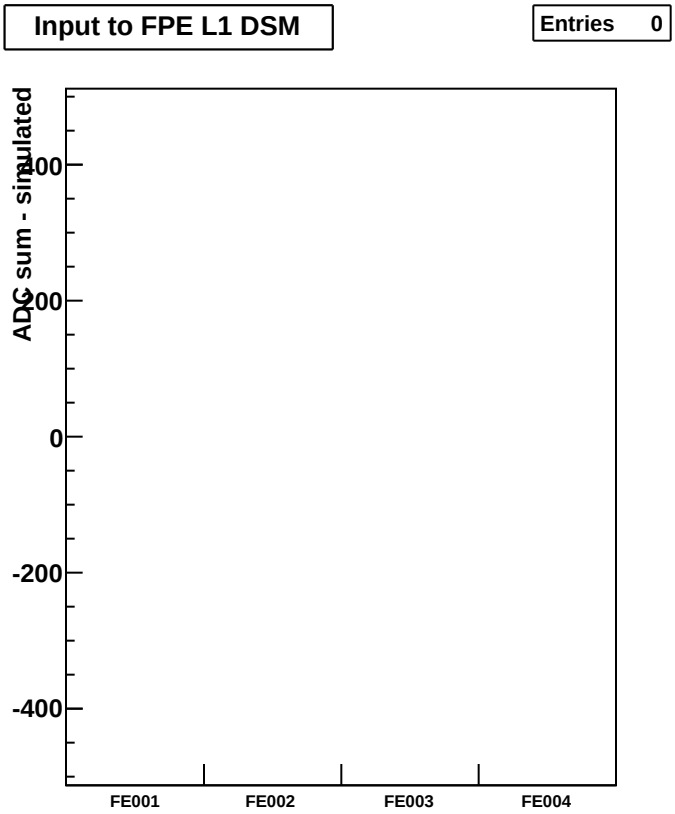

Input to FE001 QT board
Entries 1.166176e+07
ADC
channel

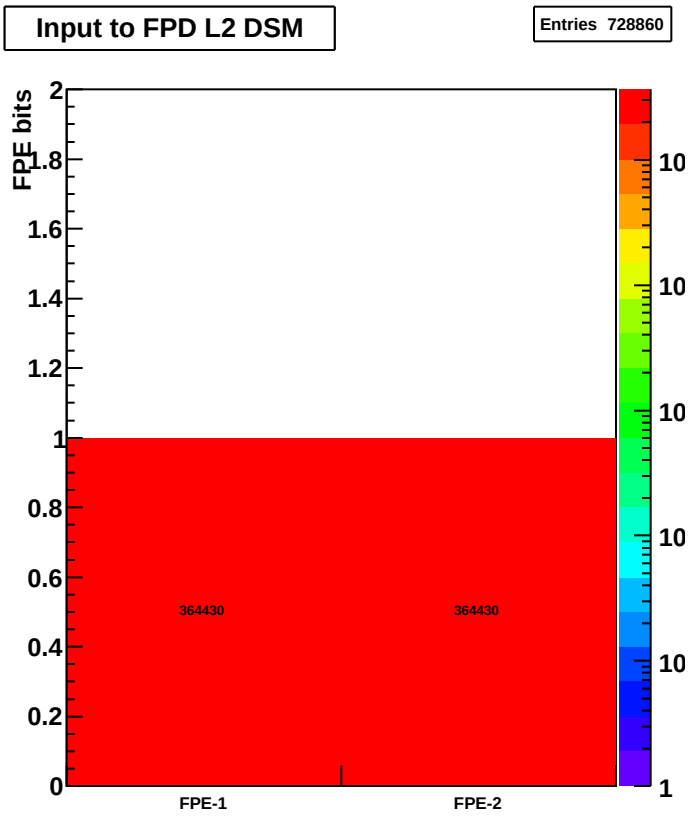

Input to FE002 QT board
Entries 1.166176e+07
ADC
channel

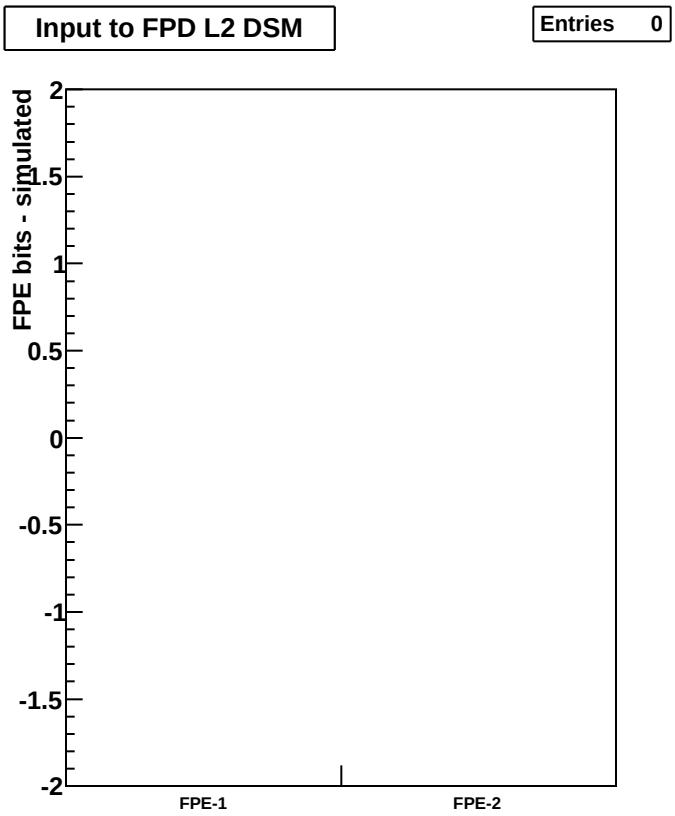

Input to FE003 QT board
Entries 1.166176e+07
ADC
channel


Input to FE004 QT board
Entries 1.166176e+07
ADC
channel


Input to FPE L1 DSM
Entries1457720
ADC sum
1000
800
600
400
200
0
FE001
FE002
FE003
FE004
10
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 728860
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
364430
364430
FPE-1
FPE-2
10
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