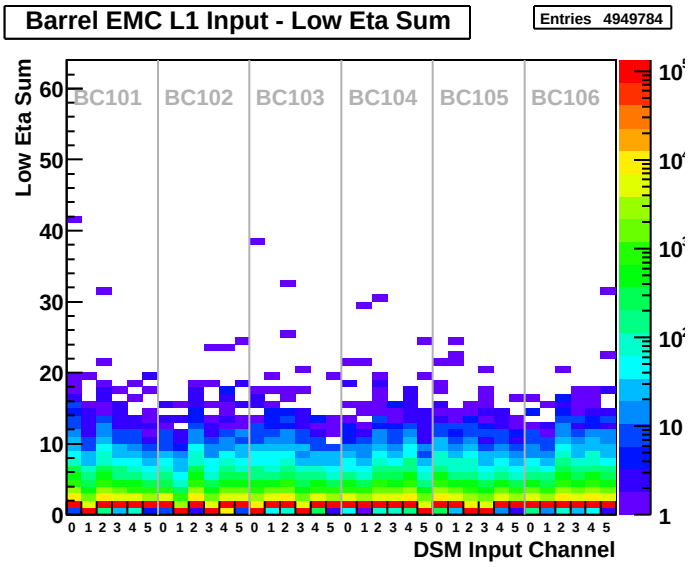
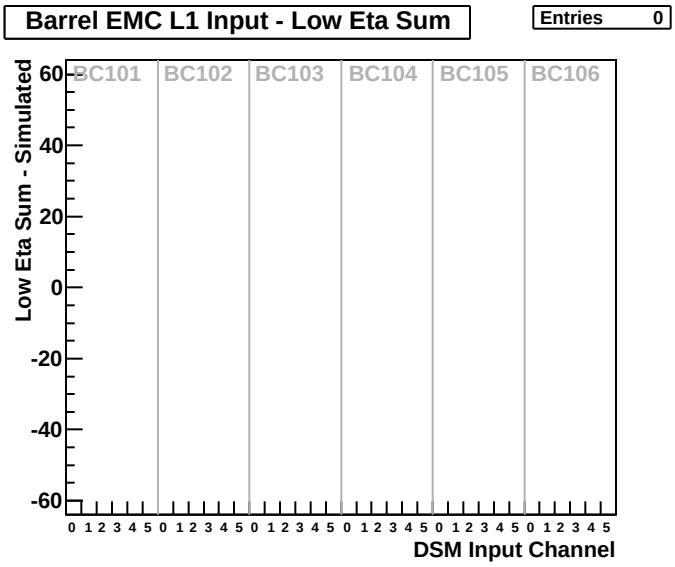
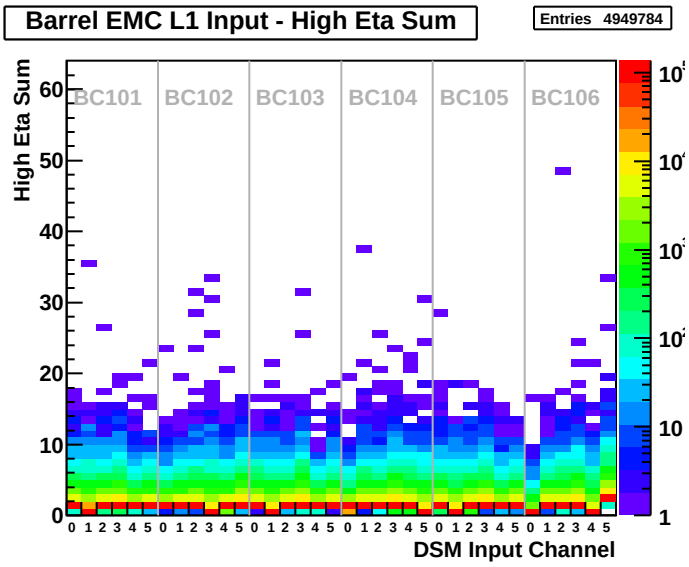
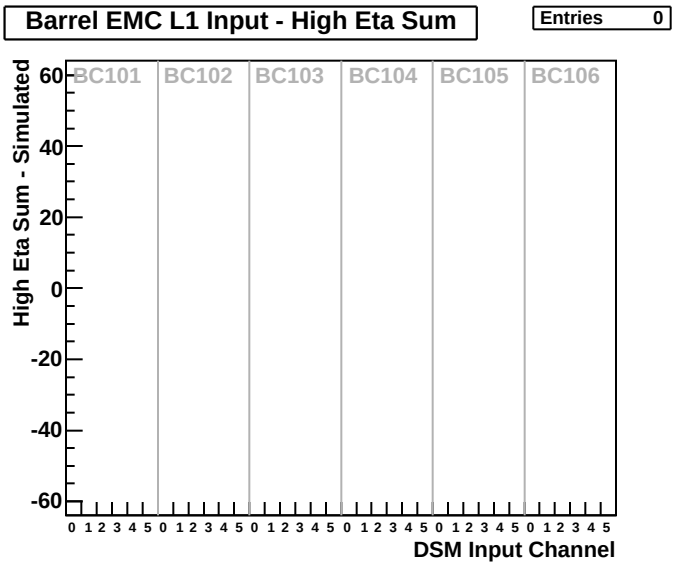
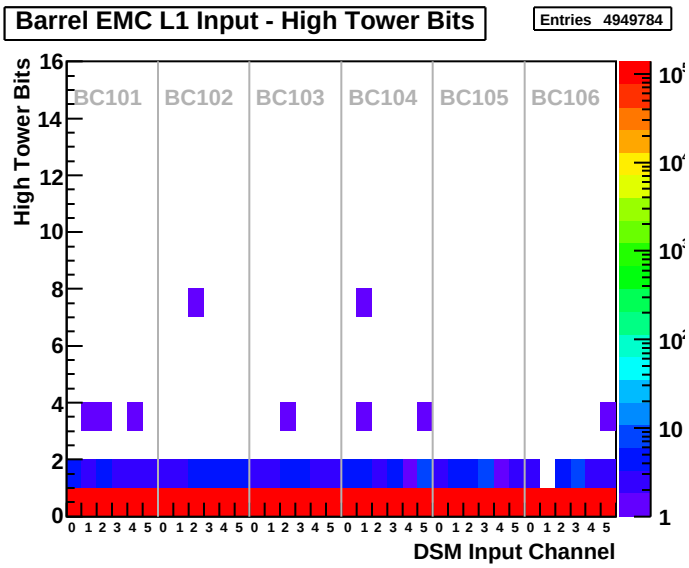
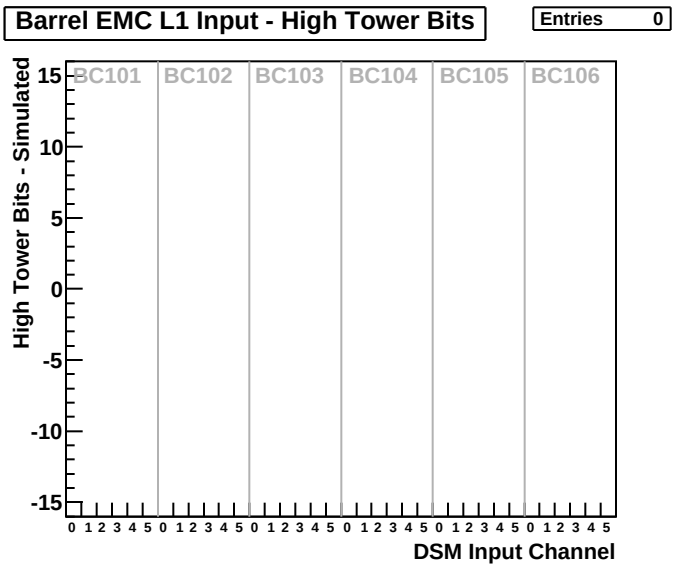

Barrel EMC L1 Input - Low Eta Sum
Entries 4949784
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

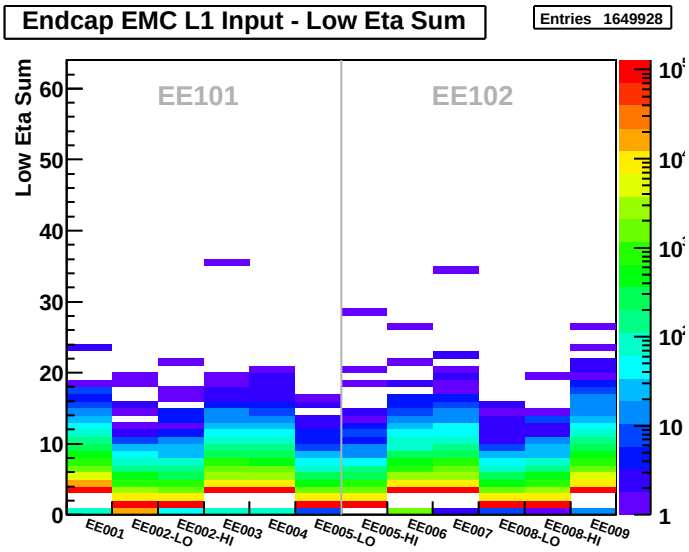

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

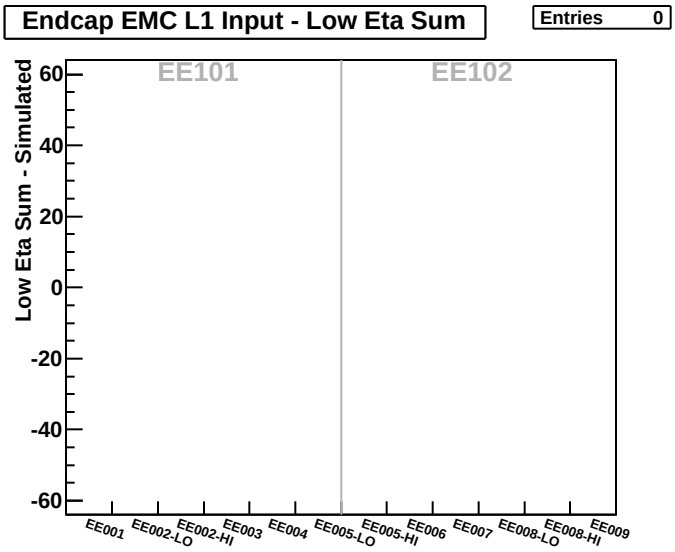

Barrel EMC L1 Input - High Eta Sum
Entries 4949784
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

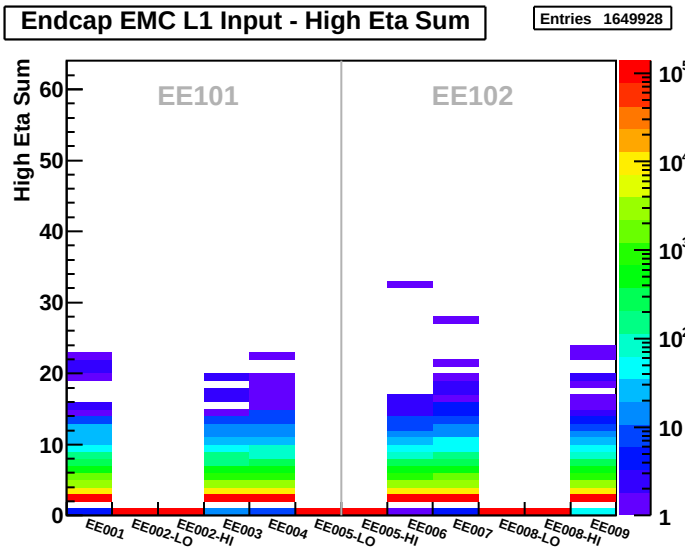

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

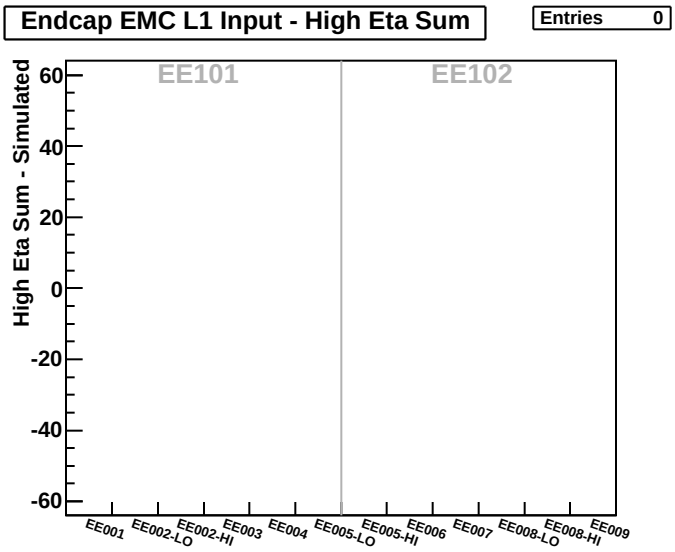

Barrel EMC L1 Input - High Tower Bits
Entries 4949784
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

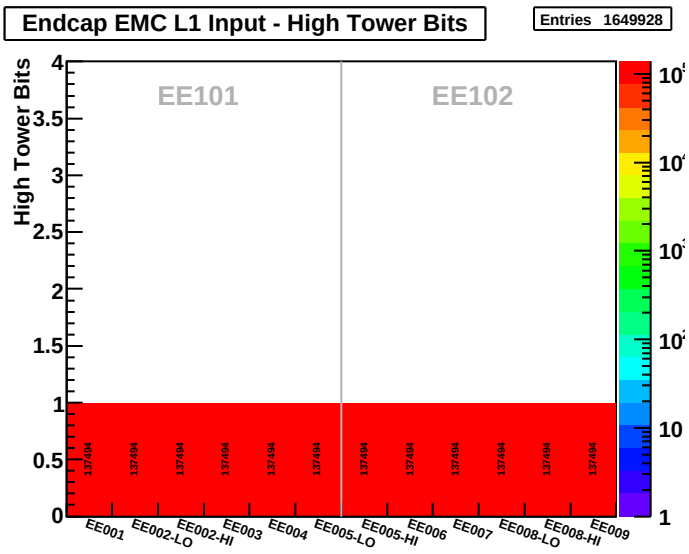

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

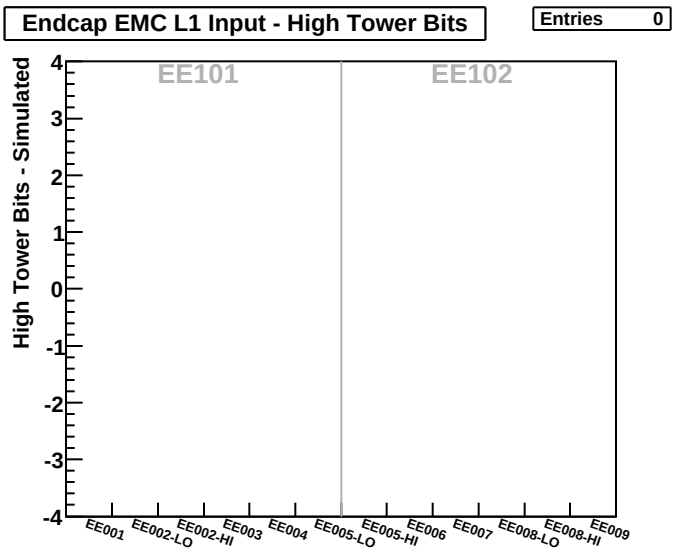

Endcap EMC L1 Input - Low Eta Sum
Entries 1649928
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

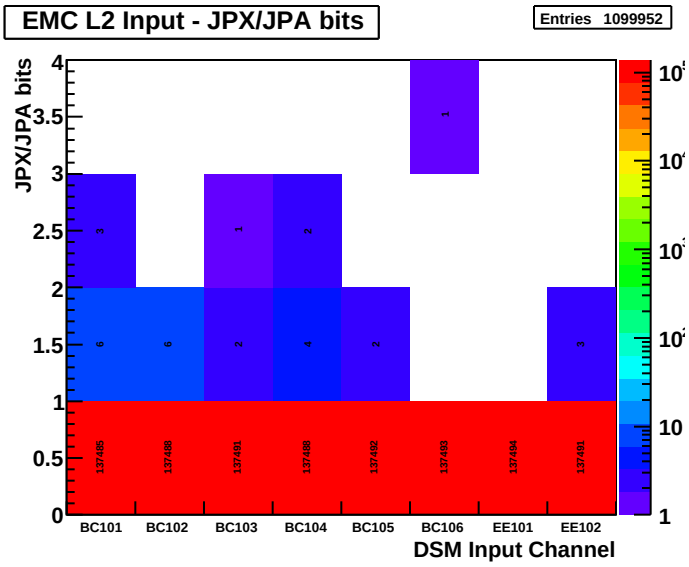

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

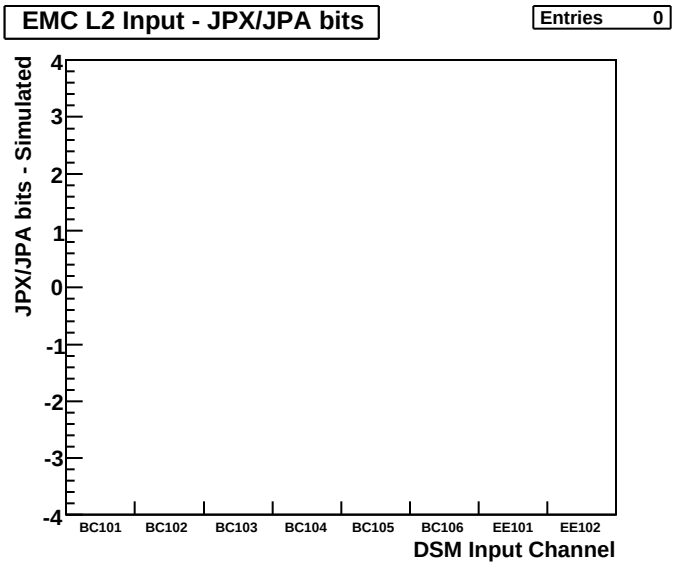

Endcap EMC L1 Input - High Eta Sum
Entries 1649928
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

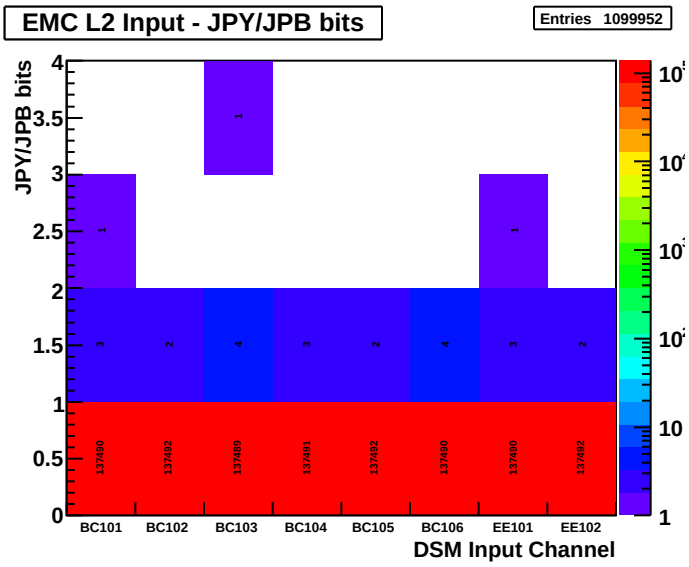

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

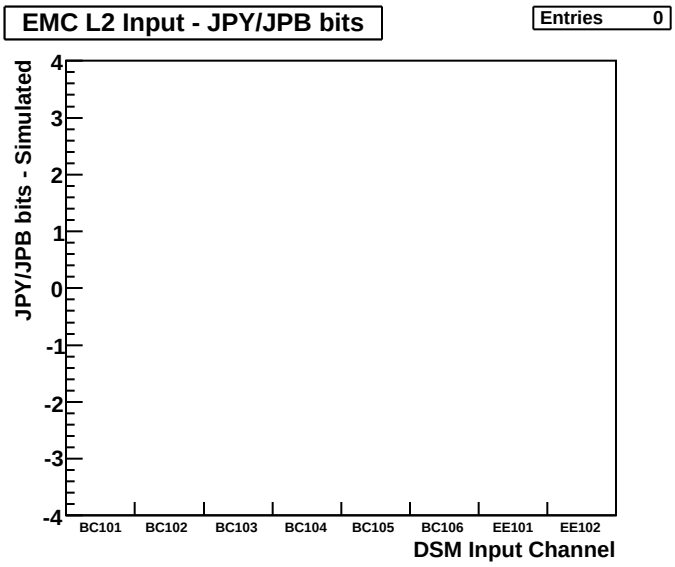

Endcap EMC L1 Input - High Tower Bits
Entries 1649928
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

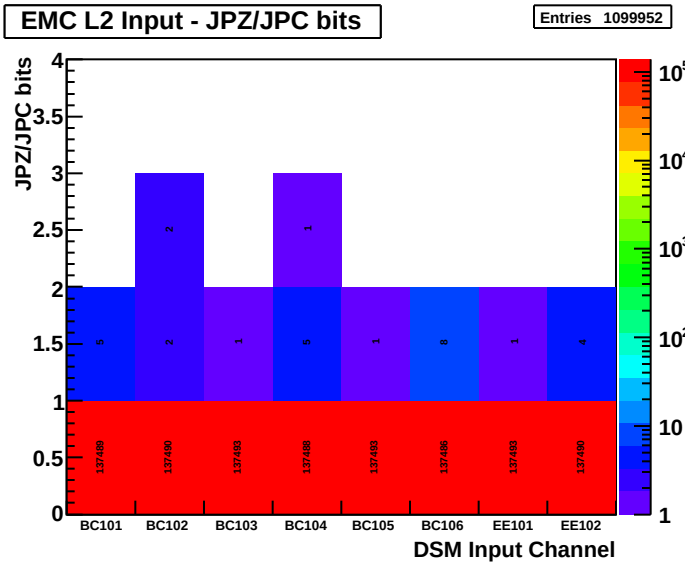

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

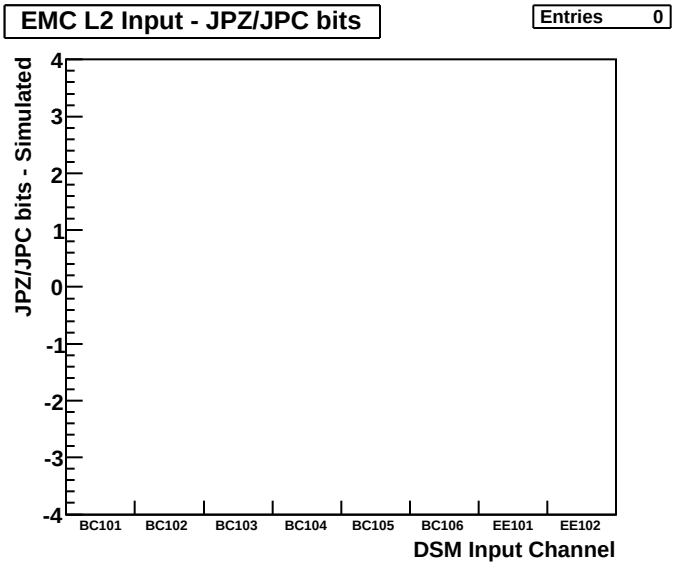

EMC L2 Input - JPX/JPA bits
Entries 1099952
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

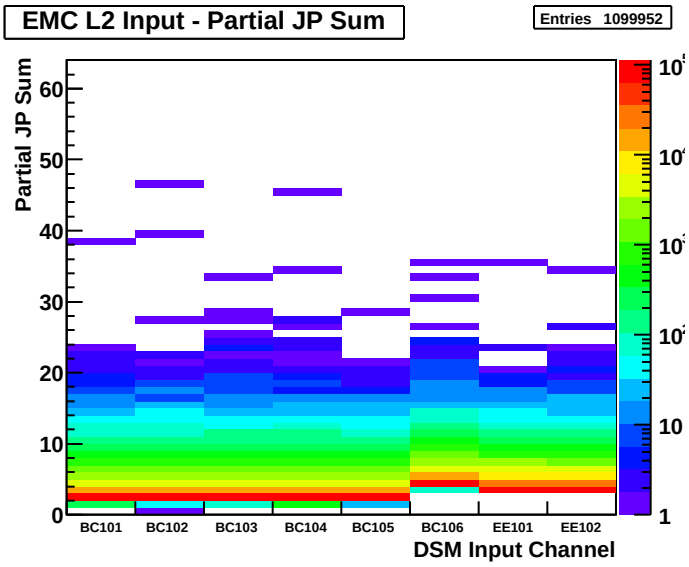

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

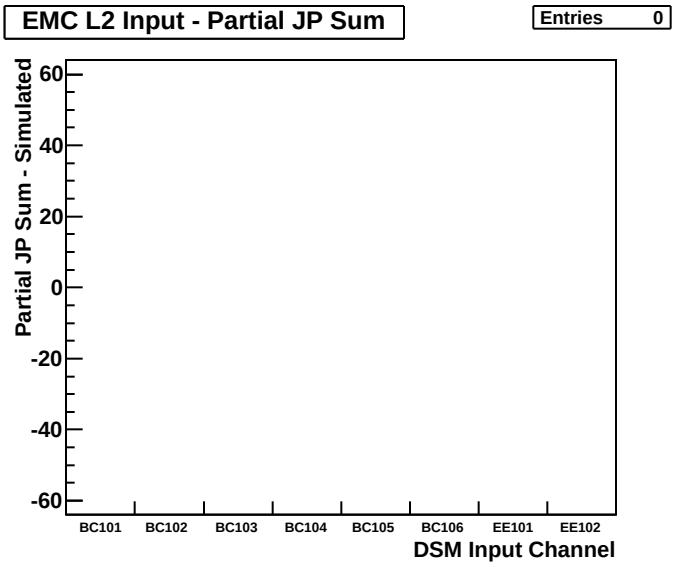

EMC L2 Input - JPY/JPB bits
Entries 1099952
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

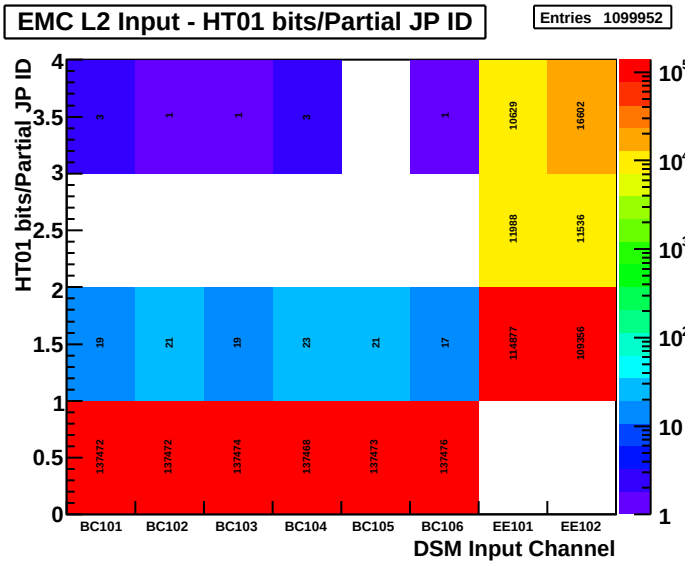

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

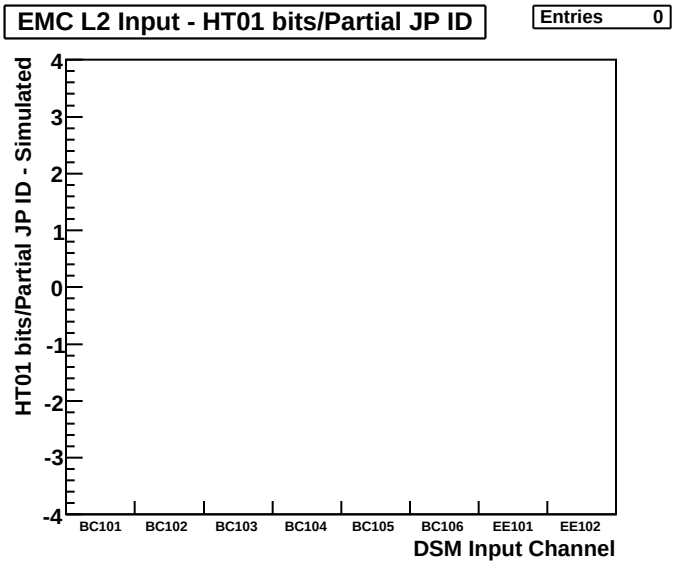

EMC L2 Input - JPZ/JPC bits
Entries 1099952
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

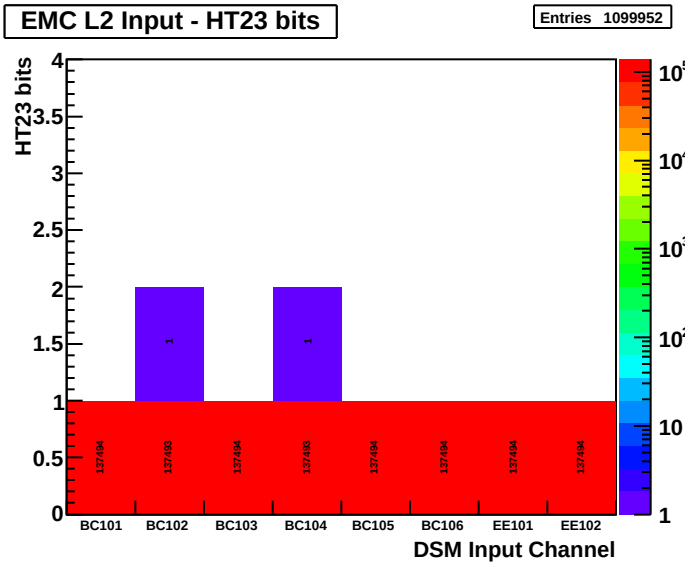

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

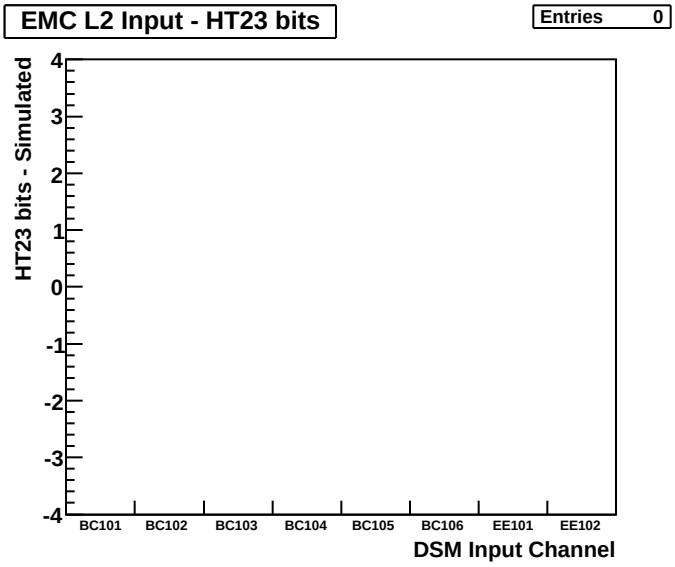

EMC L2 Input - Partial JP Sum
Entries 1099952
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

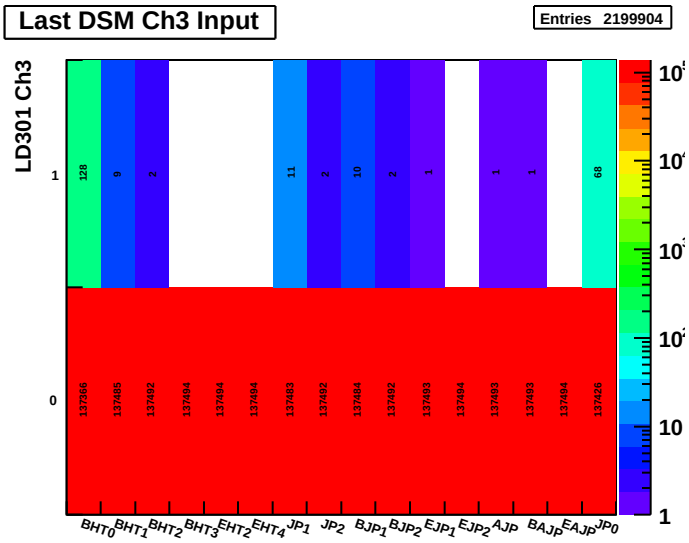

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

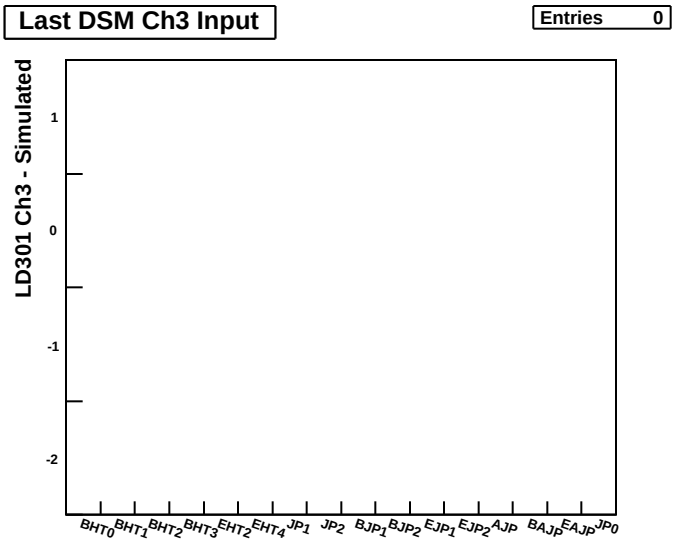

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1099952
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

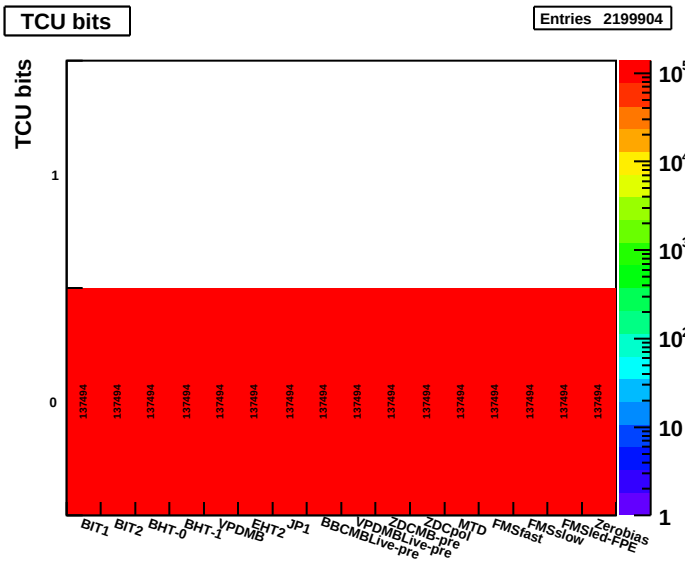

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

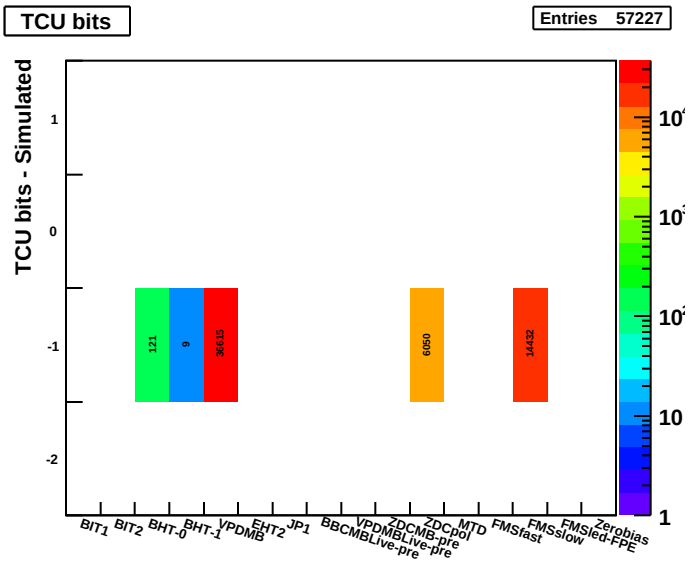

EMC L2 Input - HT23 bits
Entries 1099952
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

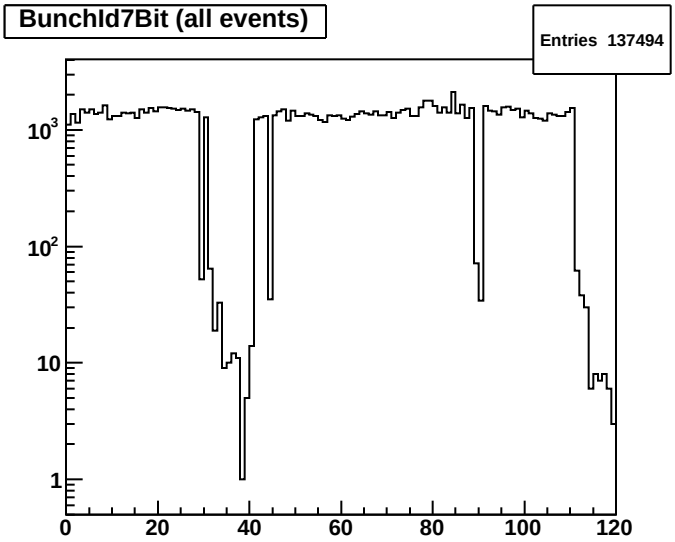

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

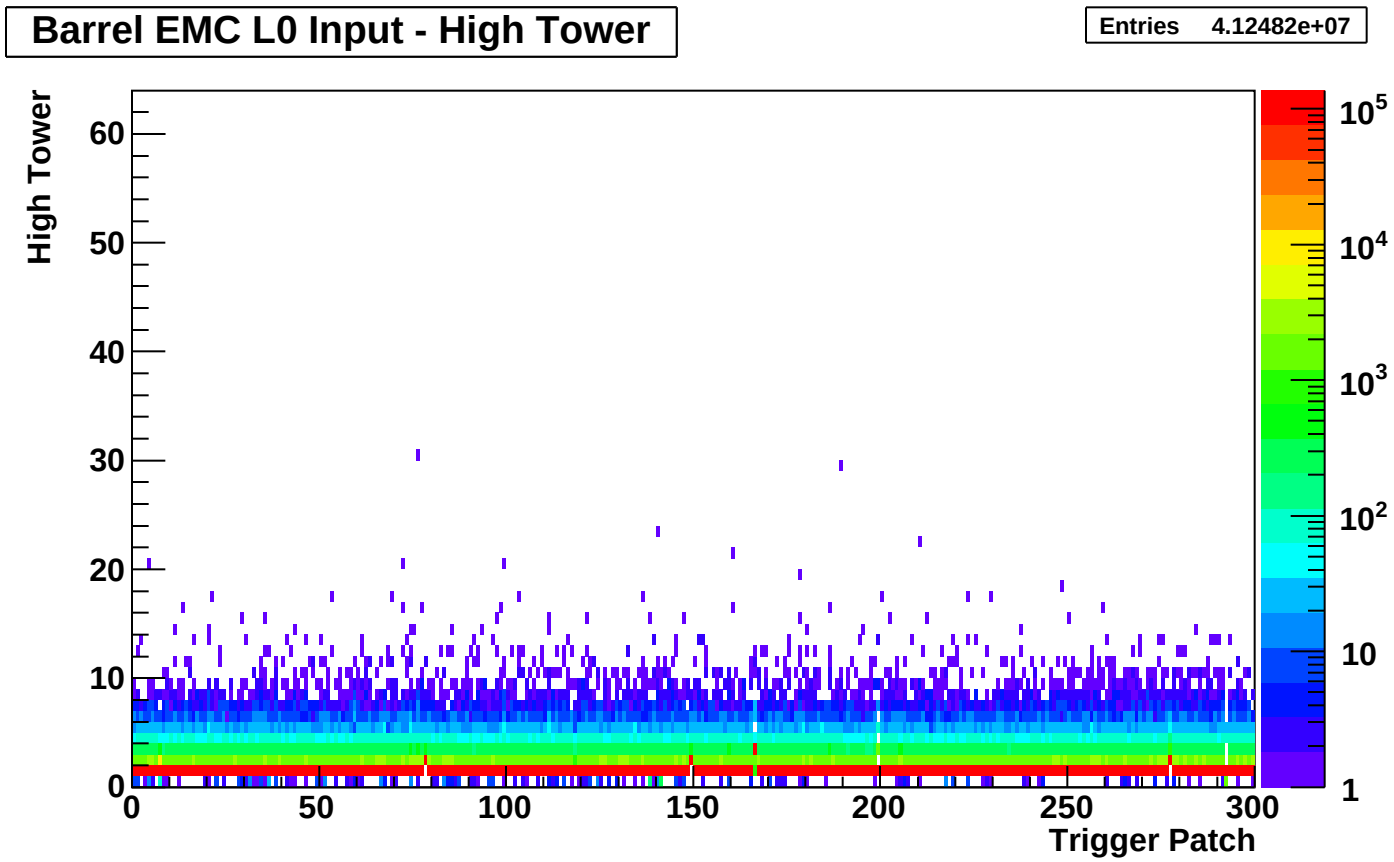

Last DSM Ch3 Input
Entries 2199904
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

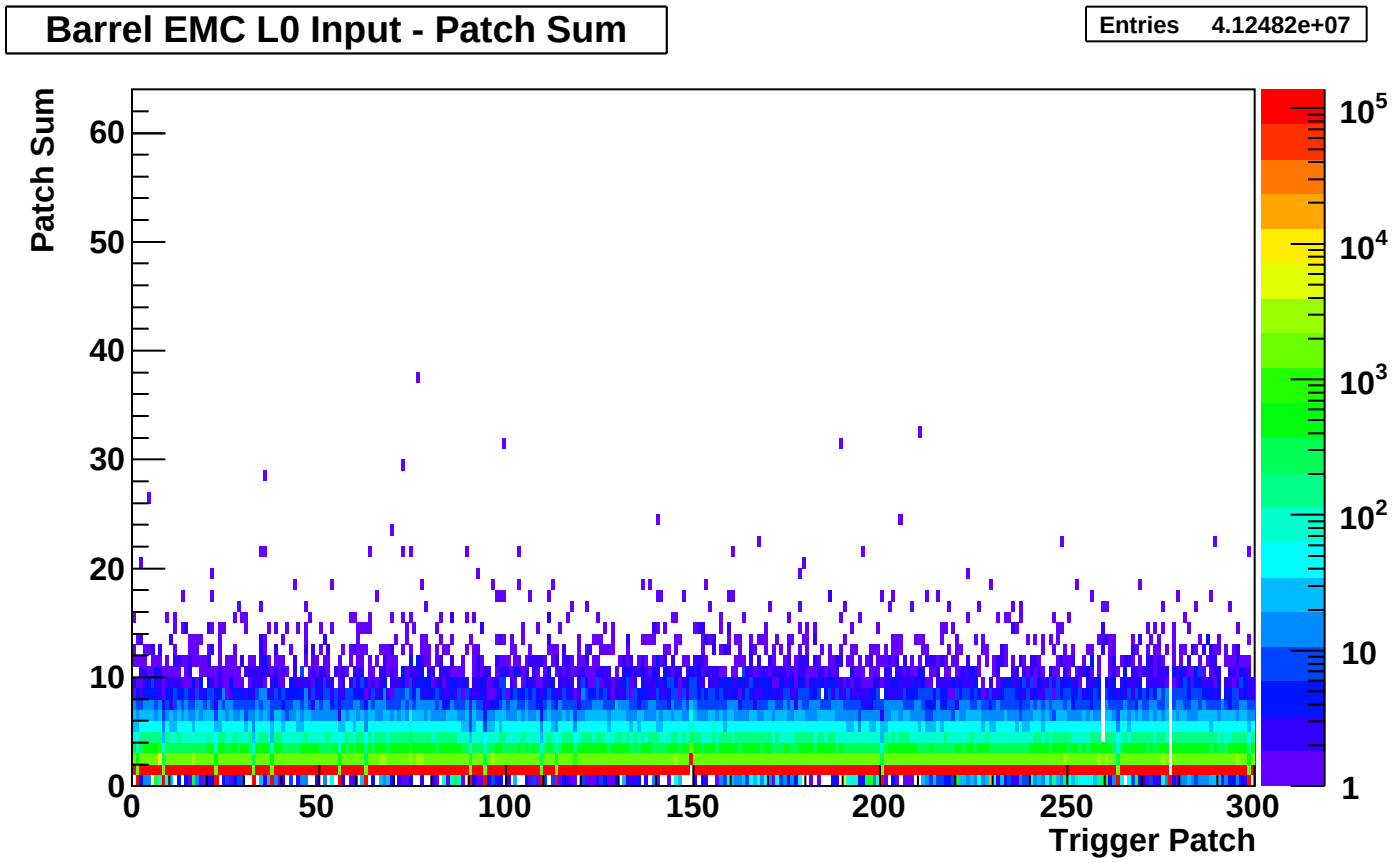

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

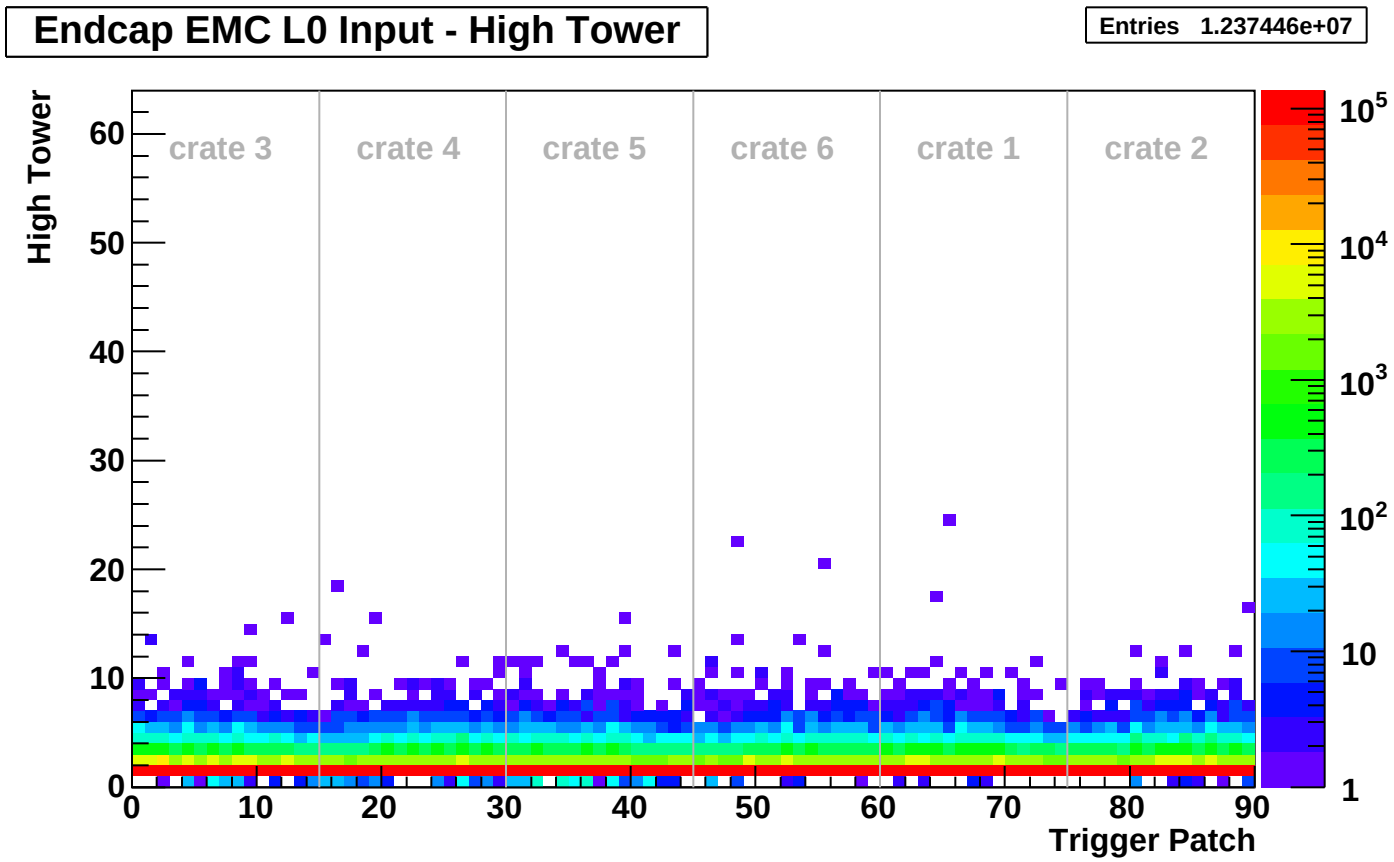

TCU bits
Entries 2199904
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

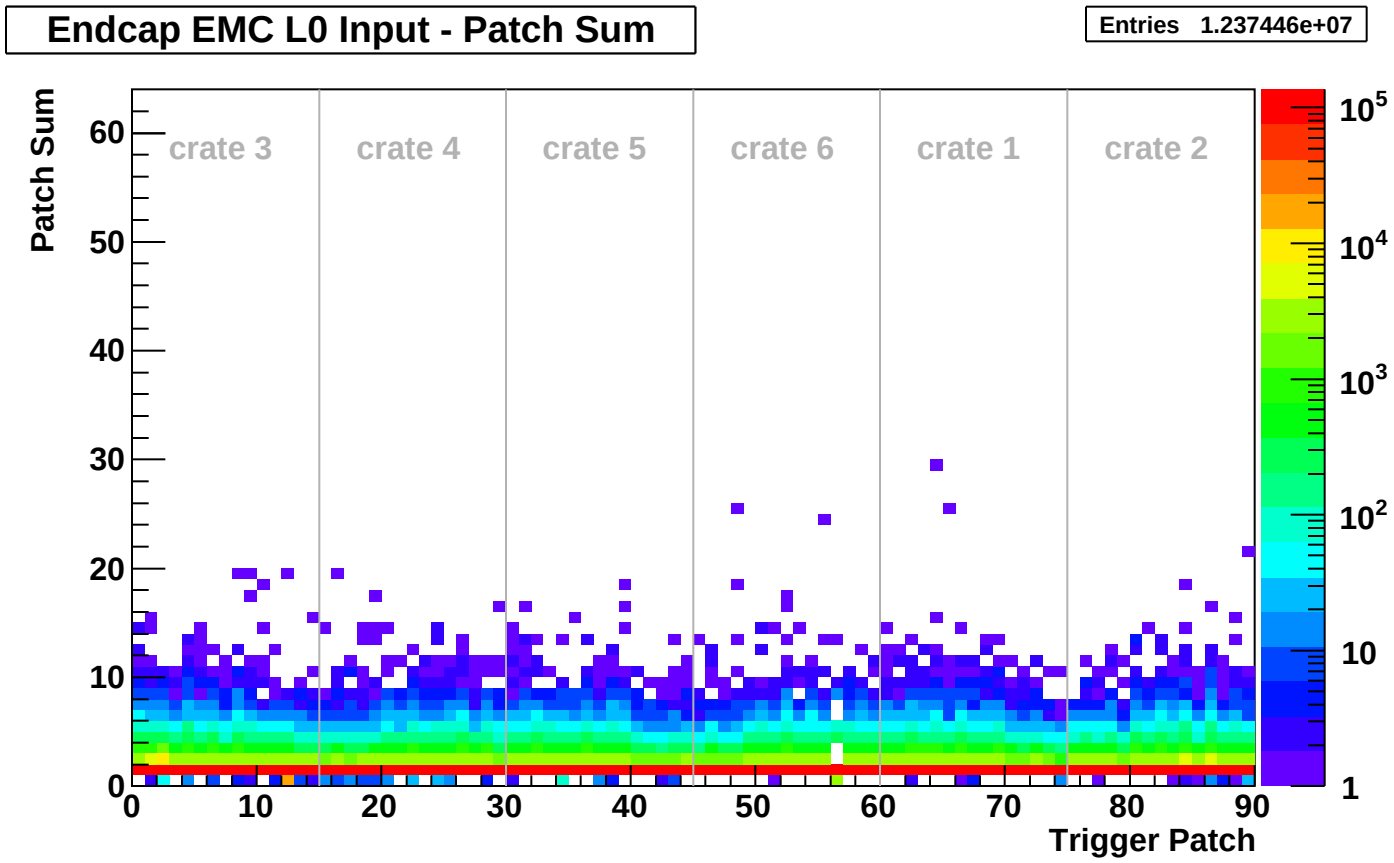

TCU bits
Entries 57227
TCU bits - Simulated
121
9
36615
6060
14432
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

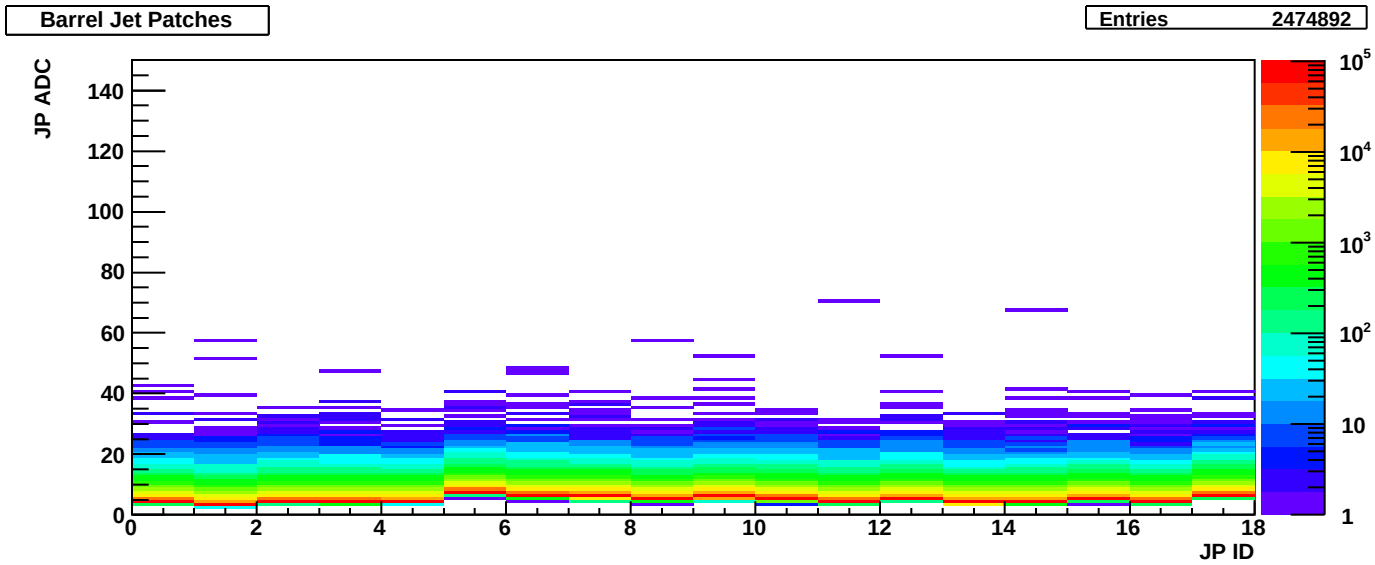

BunchId7Bit (all events)
Entries 137494

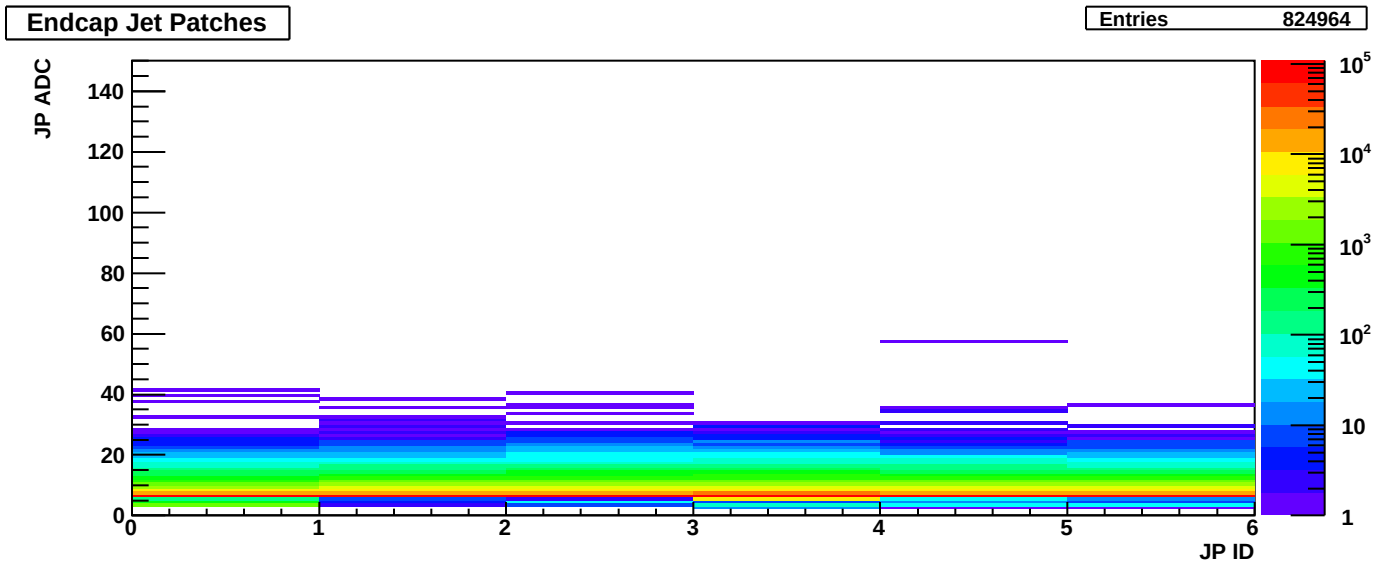

Barrel EMC L0 Input - High Tower
Entries 4.12482e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

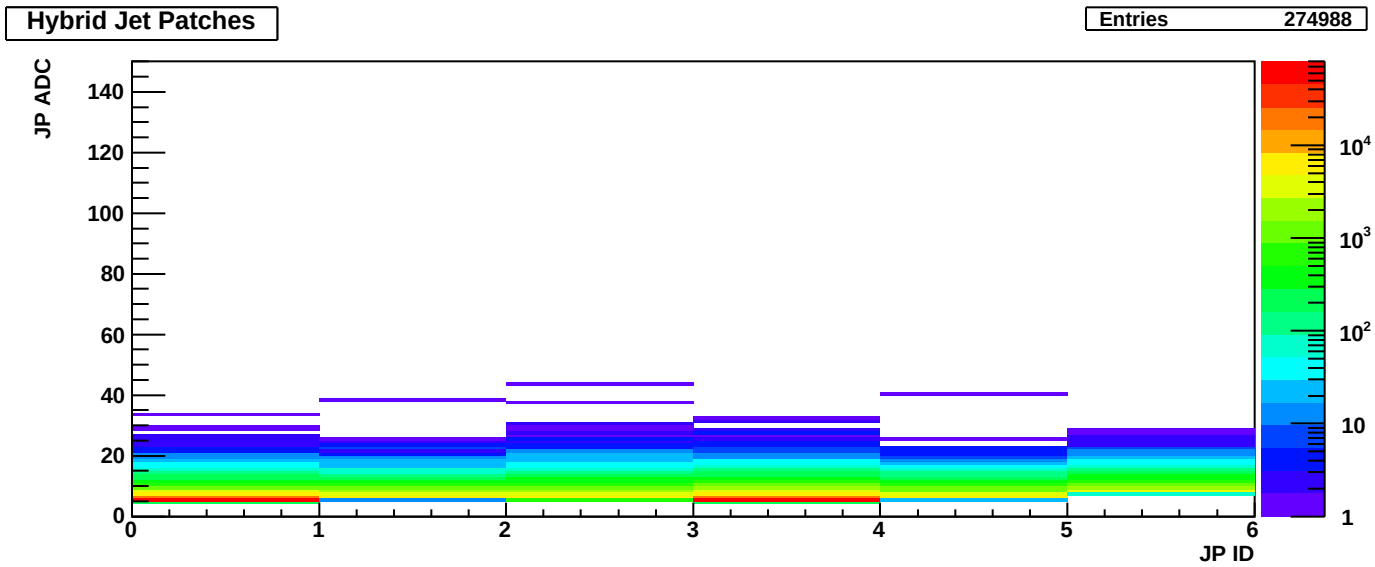

Barrel EMC L0 Input - Patch Sum
Entries 4.12482e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

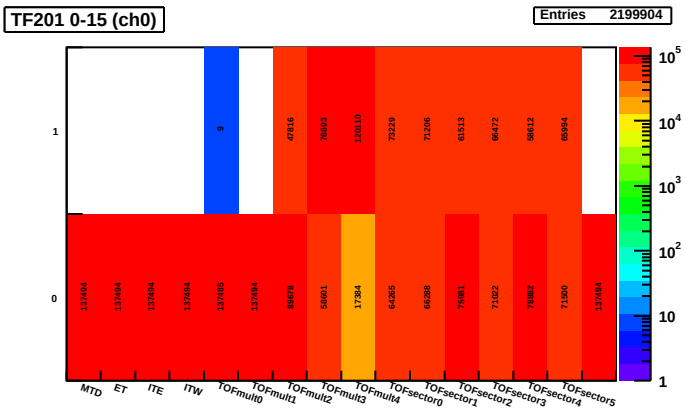

Endcap EMC L0 Input - High Tower
Entries 1.237446e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

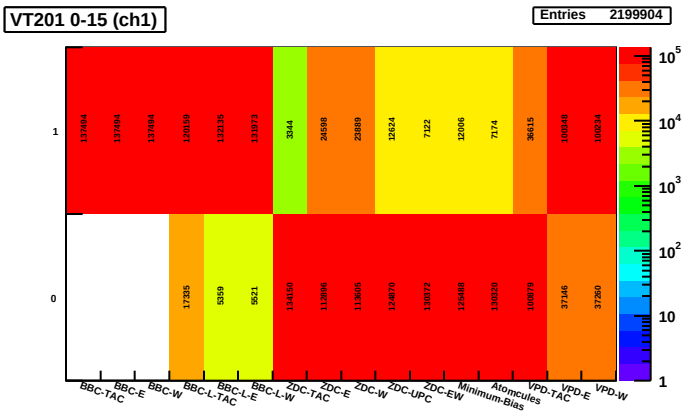

Endcap EMC L0 Input - Patch Sum
Entries 1.237446e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

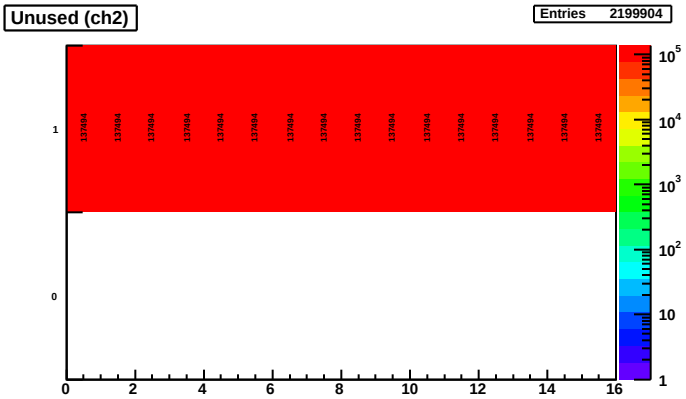

Barrel Jet Patches
Entries 2474892
JP ADC
JP ID

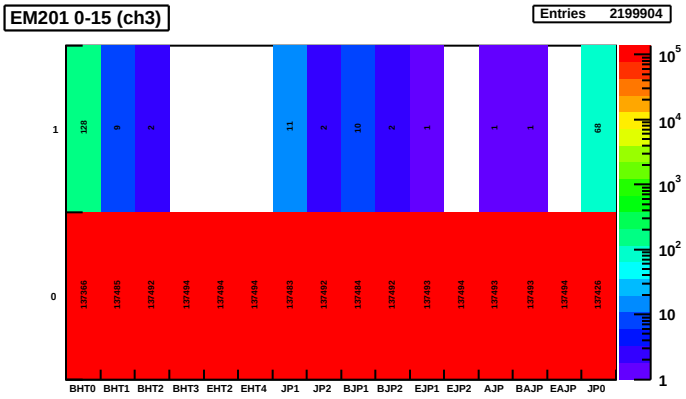

Endcap Jet Patches
Entries 824964
JP ADC
JP ID

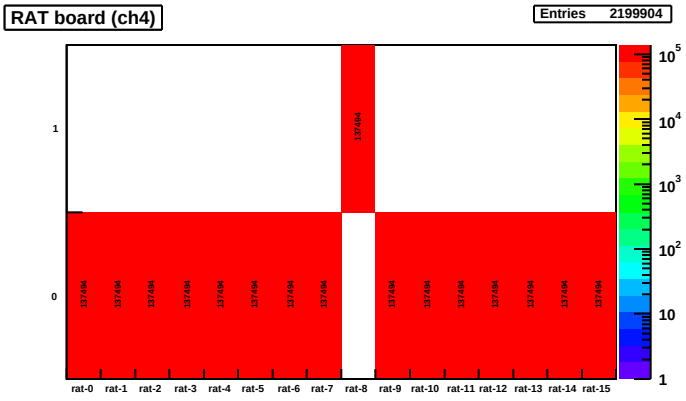

Hybrid Jet Patches
Entries 274988
JP ADC
JP ID

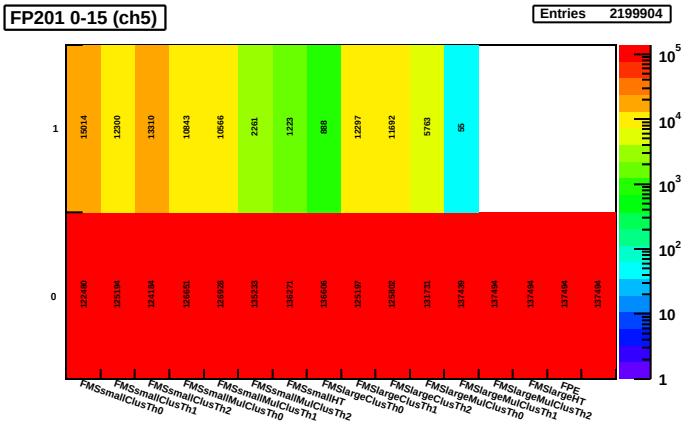

TF201 0-15 (ch0)
Entries 2199904
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

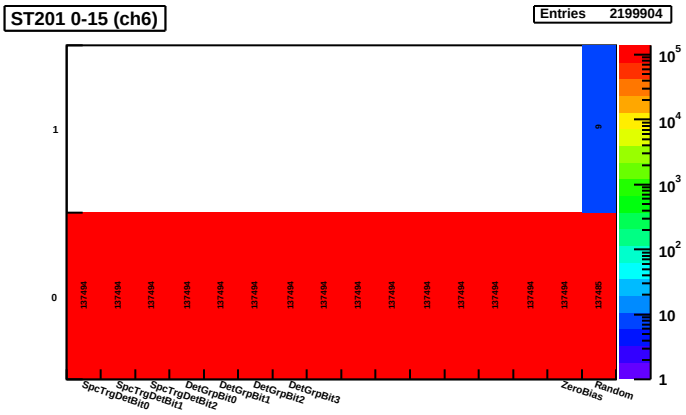

VT201 0-15 (ch1)
Entries 2199904
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

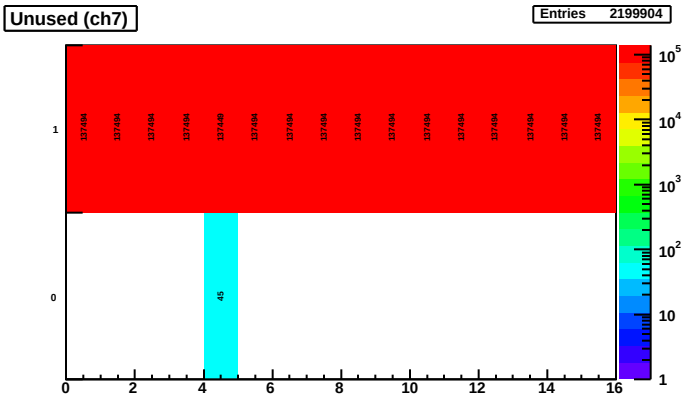

Unused (ch2)
Entries 2199904

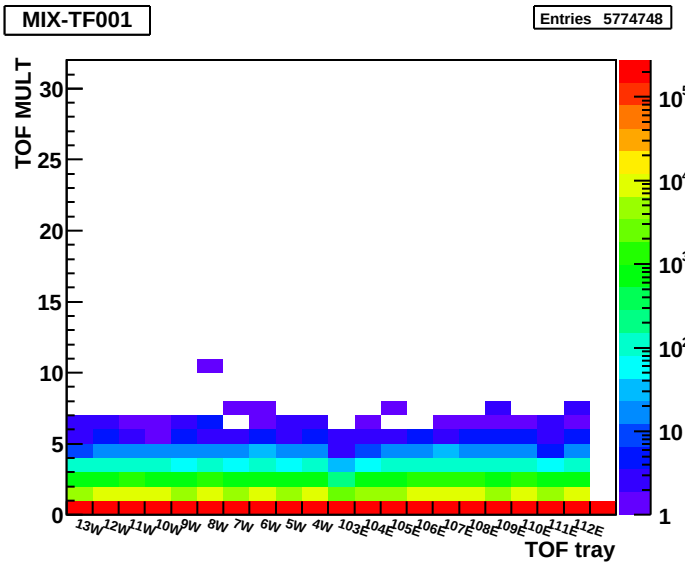

EM201 0-15 (ch3)
Entries 2199904
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

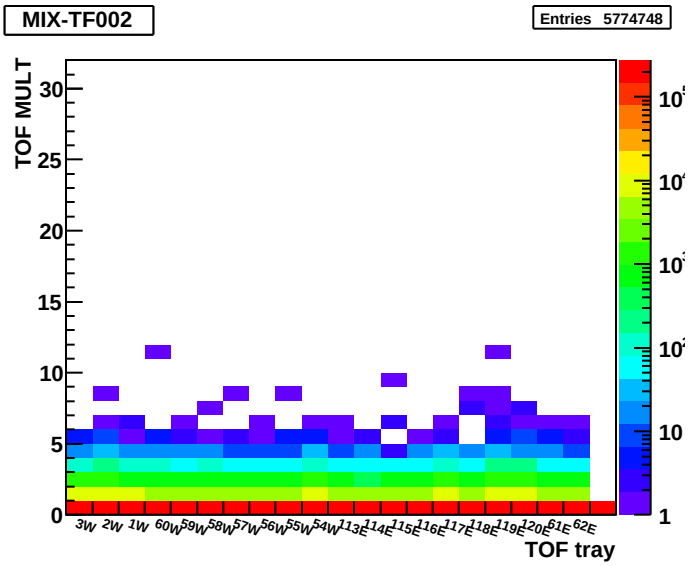

RAT board (ch4)
Entries 2199904
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

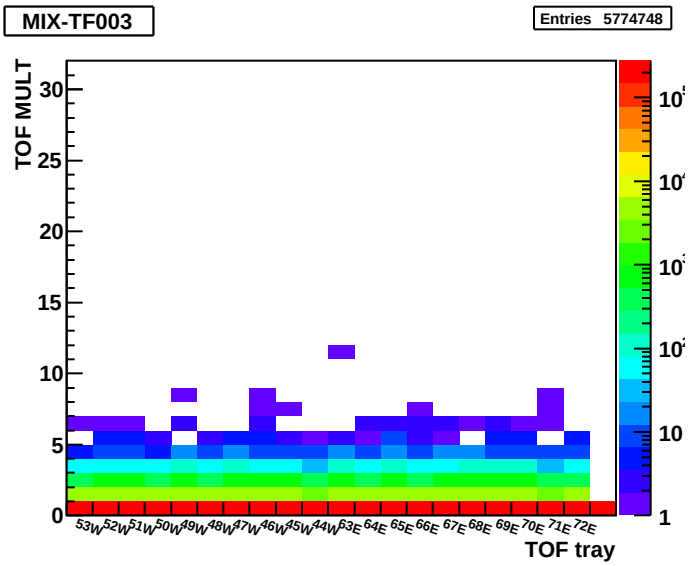

FP201 0-15 (ch5)
Entries 2199904
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

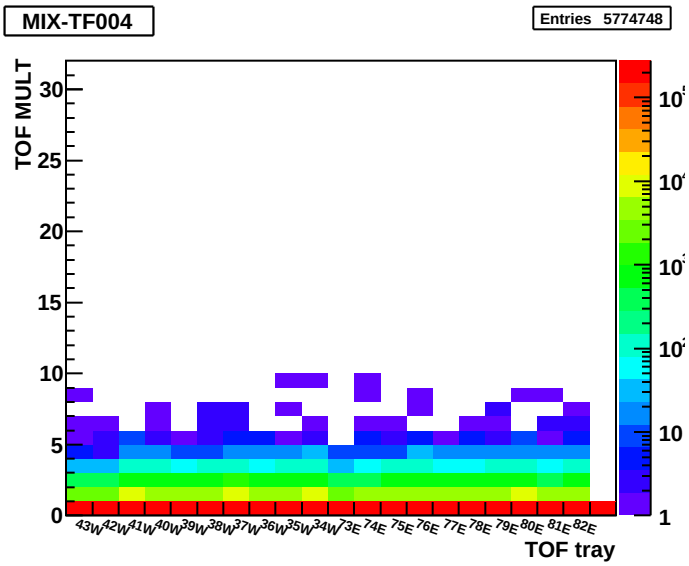

ST201 0-15 (ch6)
Entries 2199904
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

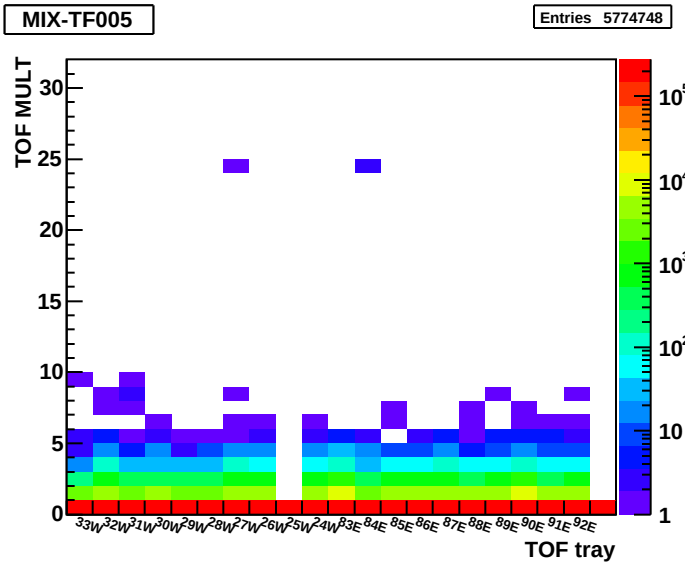

Unused (ch7)
Entries 2199904

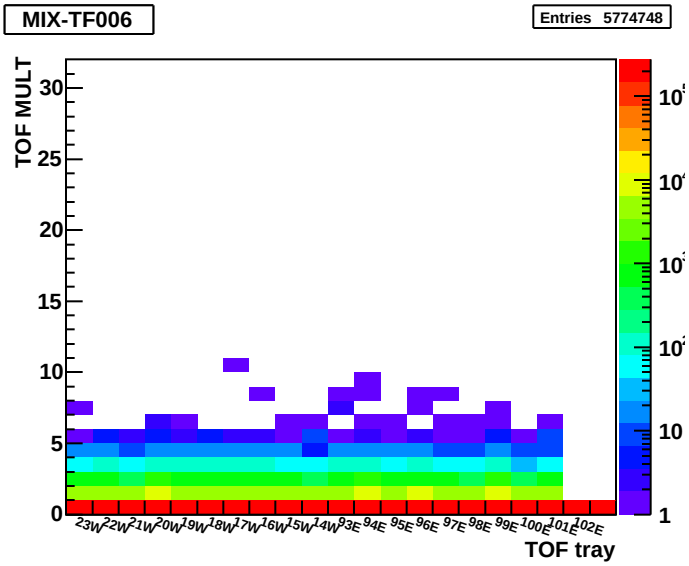

MIX-TF001
Entries 5774748
TOF MULT
TOF tray

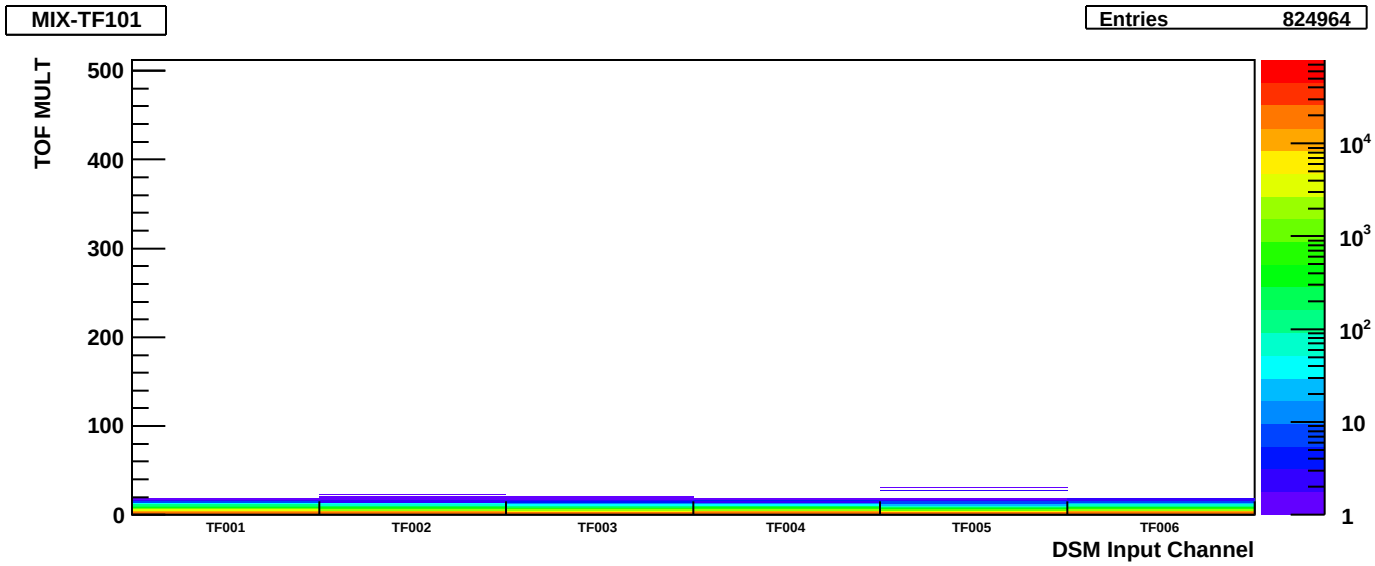

MIX-TF002
Entries 5774748
TOF MULT
TOF tray

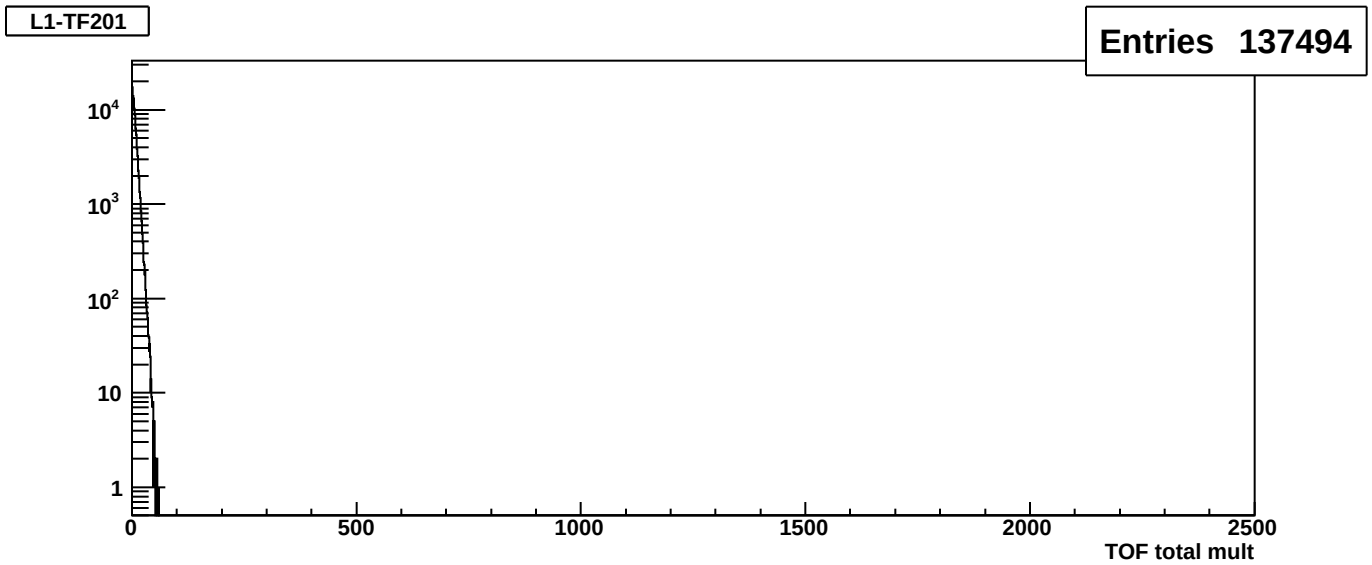

MIX-TF003
Entries 5774748
TOF MULT
TOF tray

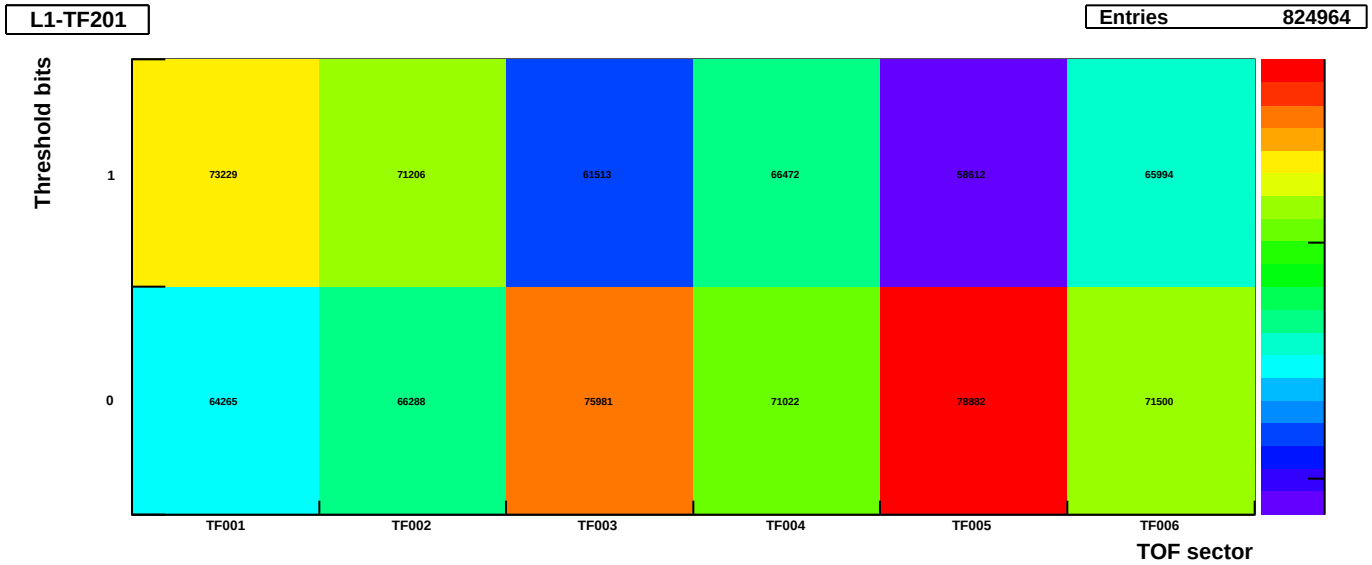

MIX-TF004
Entries 5774748
TOF MULT
TOF tray

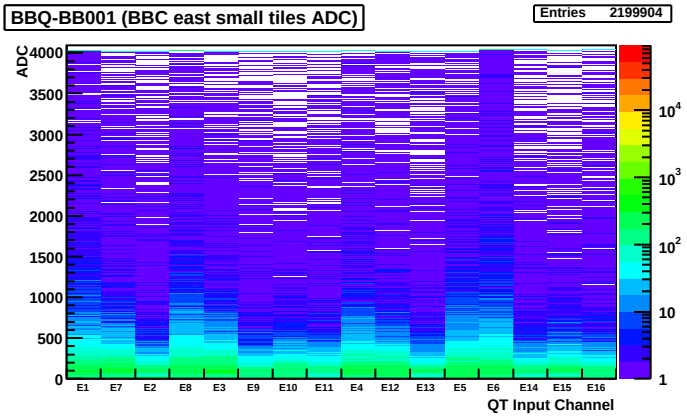

MIX-TF005
Entries 5774748
TOF MULT
TOF tray

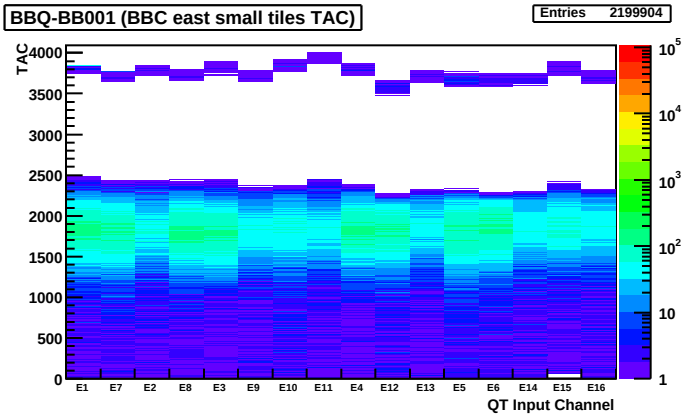

MIX-TF006
Entries 5774748
TOF MULT
TOF tray

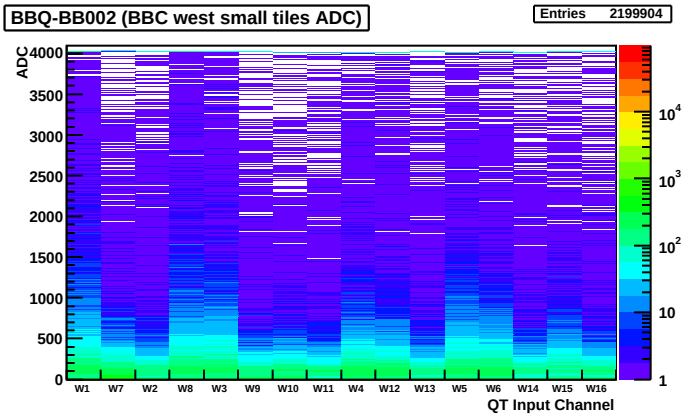

MIX-TF101
Entries 824964
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

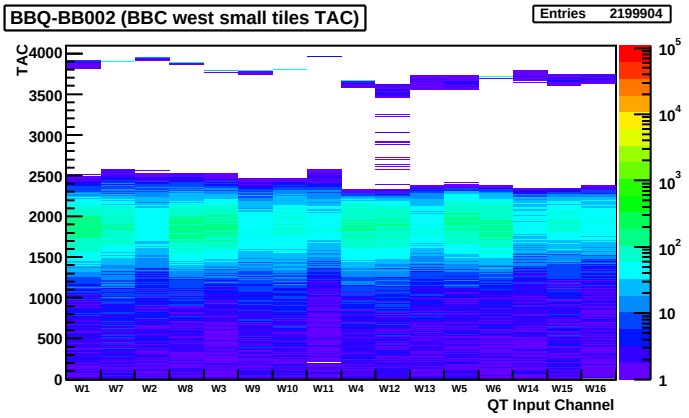

L1-TF201
Entries 137494
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

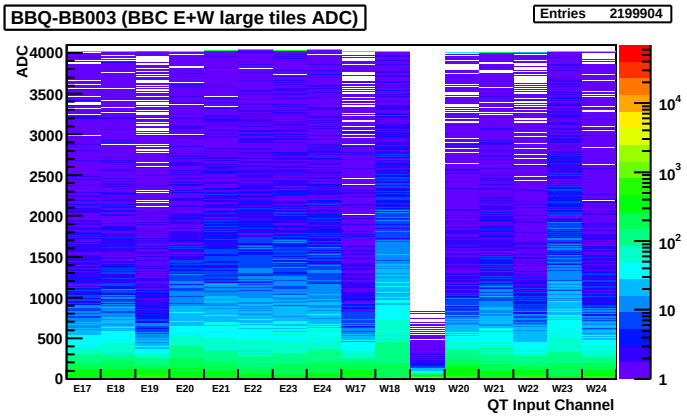

L1-TF201
Entries 824964
Threshold bits
1
0
73229
71206
61513
66472
58612
65994
64265
66288
75981
71022
78882
71500
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

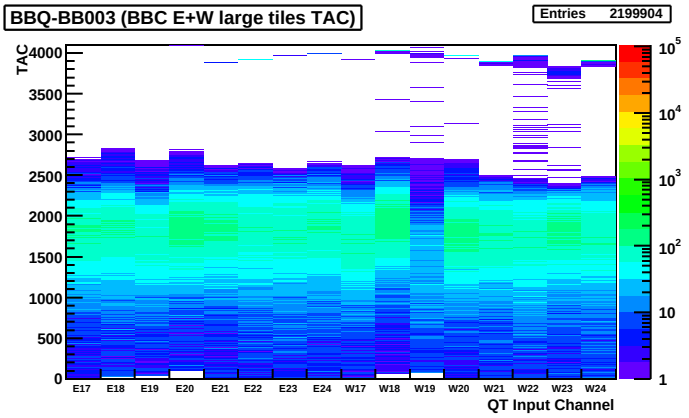

BBQ-BB001 (BBC east small tiles ADC)
Entries 2199904
ADC
QT Input Channel

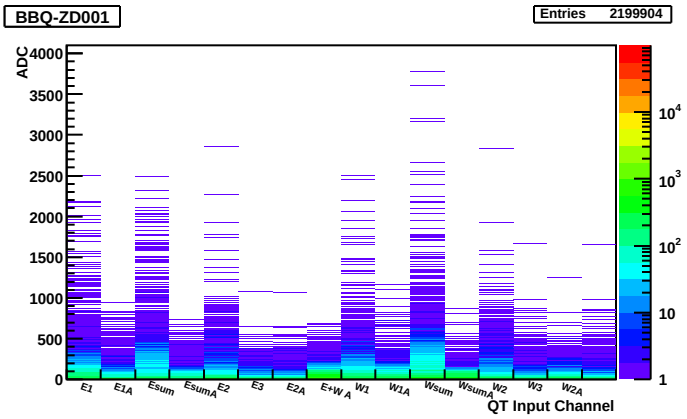

BBQ-BB001 (BBC east small tiles TAC)
Entries 2199904
TAC
QT Input Channel

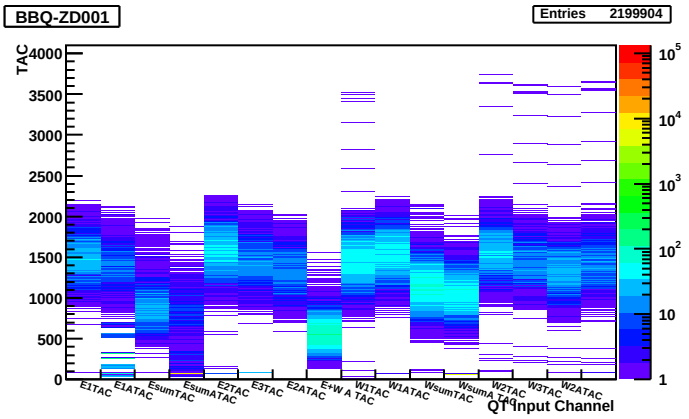

BBQ-BB002 (BBC west small tiles ADC)
Entries 2199904
ADC
QT Input Channel

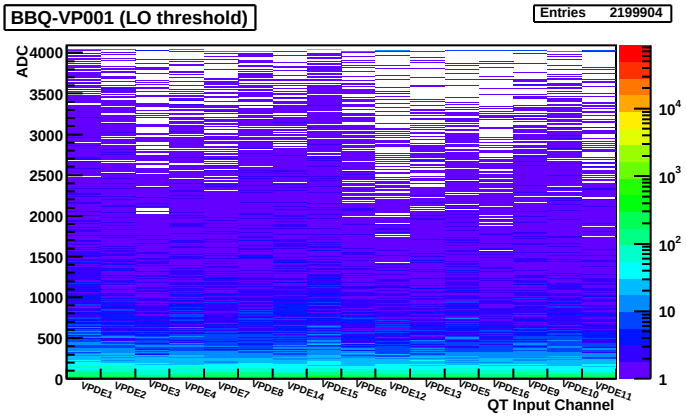

BBQ-BB002 (BBC west small tiles TAC)
Entries 2199904
TAC
QT Input Channel

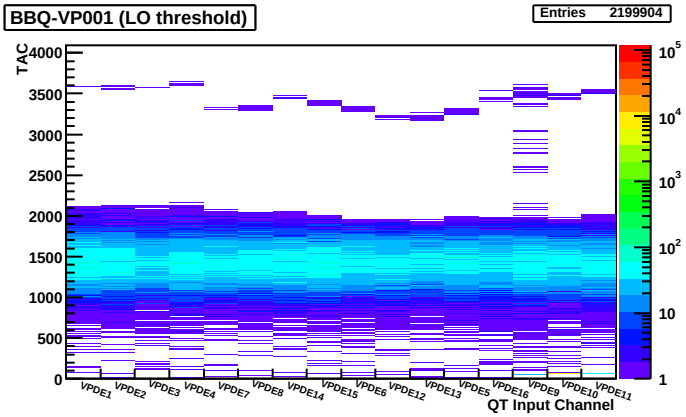

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2199904
ADC
QT Input Channel

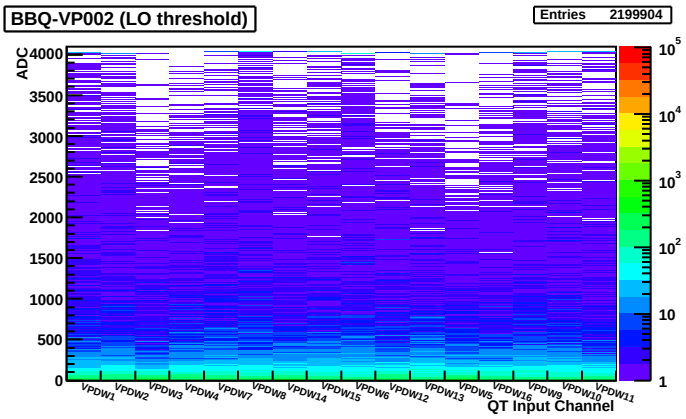

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2199904
TAC
QT Input Channel

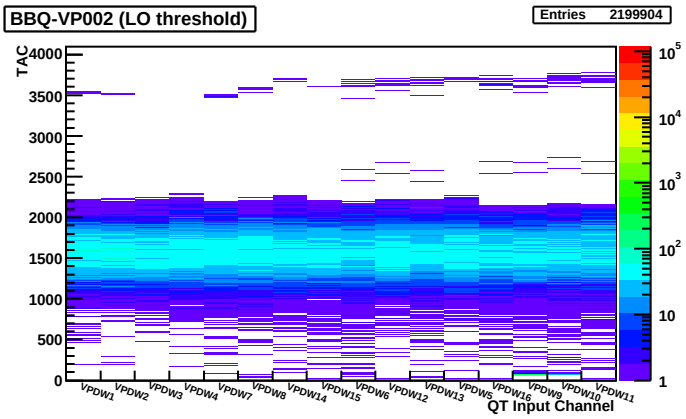

BBQ-ZD001
Entries 2199904
ADC
QT Input Channel

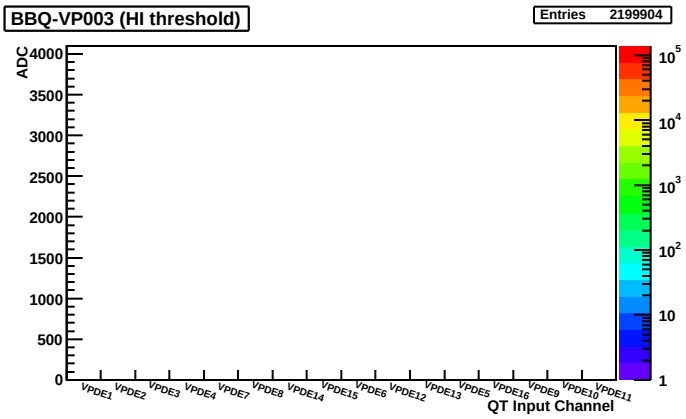

BBQ-ZD001
Entries 2199904
TAC
QT Input Channel

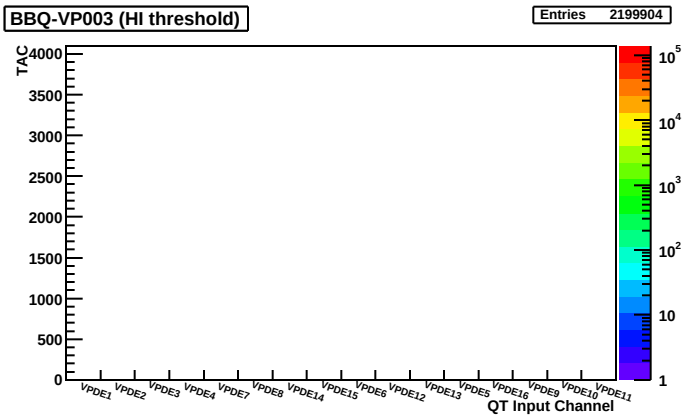

BBQ-VP001 (LO threshold)
Entries 2199904
ADC
QT Input Channel

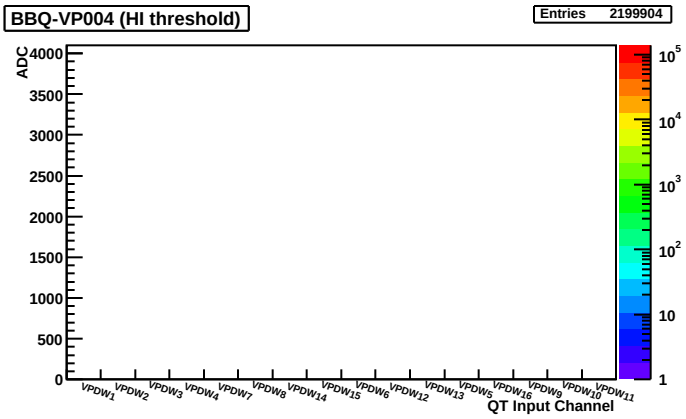

BBQ-VP001 (LO threshold)
Entries 2199904
TAC
QT Input Channel

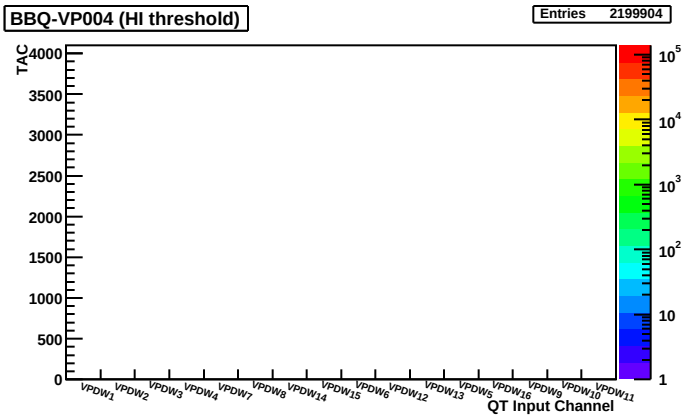

BBQ-VP002 (LO threshold)
Entries 2199904
ADC
QT Input Channel

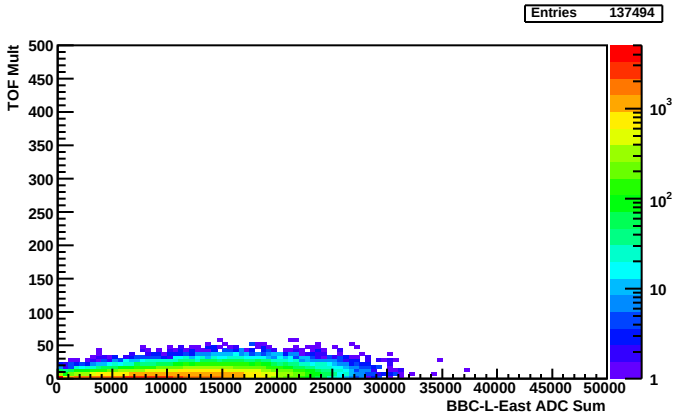

BBQ-VP002 (LO threshold)
Entries 2199904
TAC
QT Input Channel

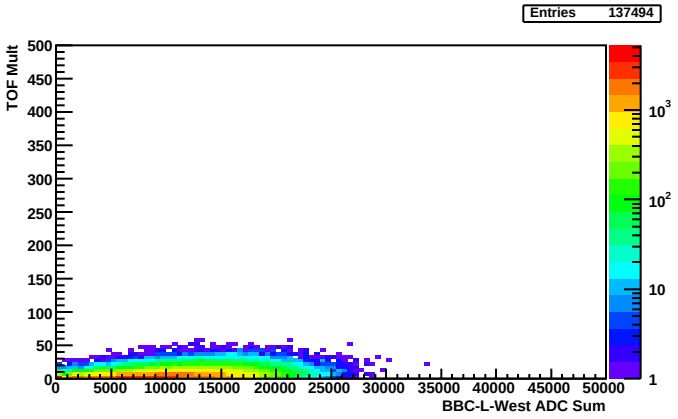

BBQ-VP003 (HI threshold)
Entries 2199904
ADC
QT Input Channel

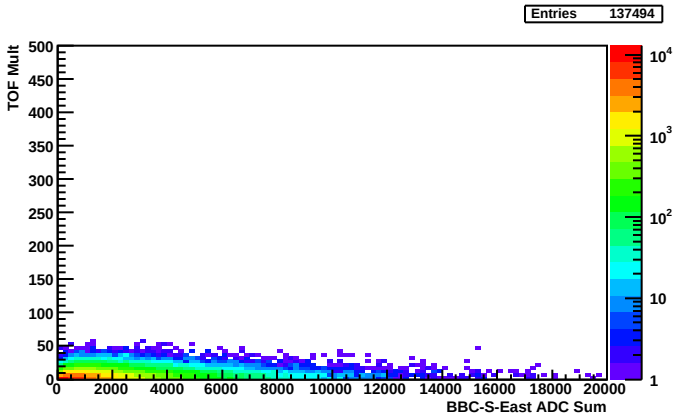

BBQ-VP003 (HI threshold)
Entries 2199904
TAC
QT Input Channel

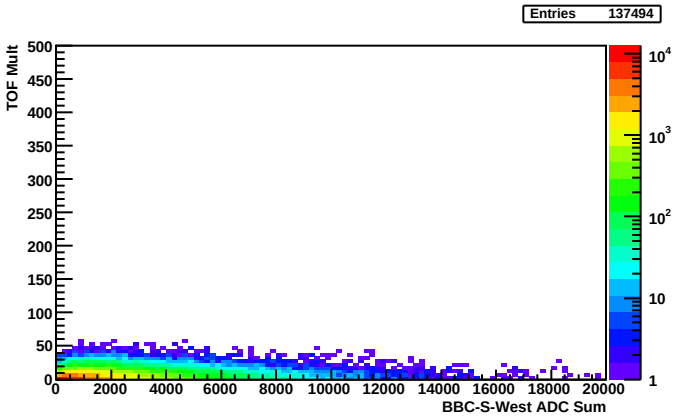

BBQ-VP004 (HI threshold)
Entries 2199904
ADC
QT Input Channel

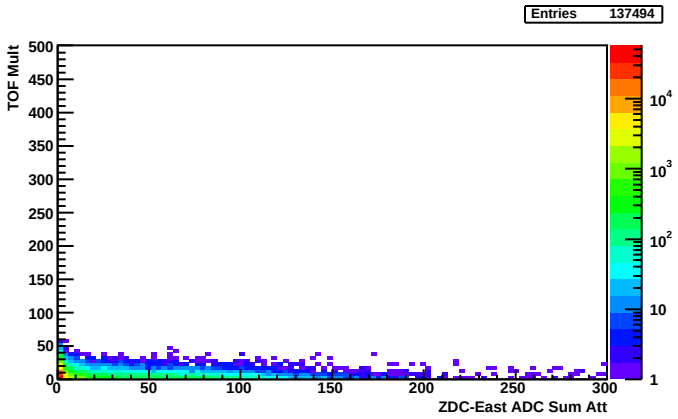

BBQ-VP004 (HI threshold)
Entries 2199904
TAC
QT Input Channel

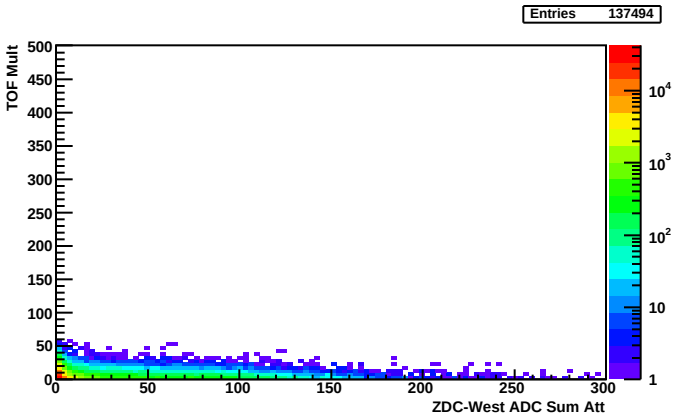

Entries 137494
TOF Mult
BBC-L-East ADC Sum

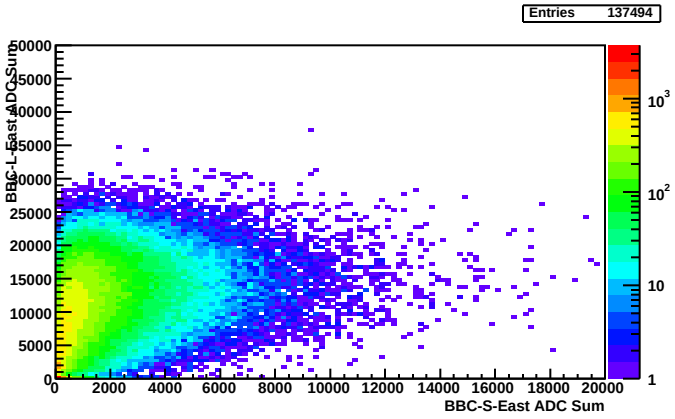

Entries 137494
TOF Mult
BBC-L-West ADC Sum

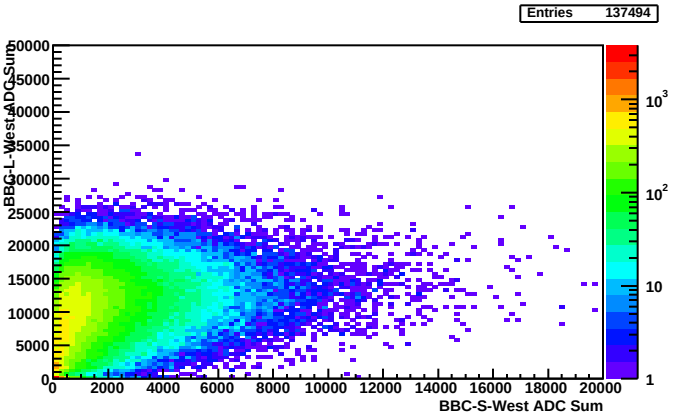

Entries 137494
TOF Mult
BBC-S-East ADC Sum

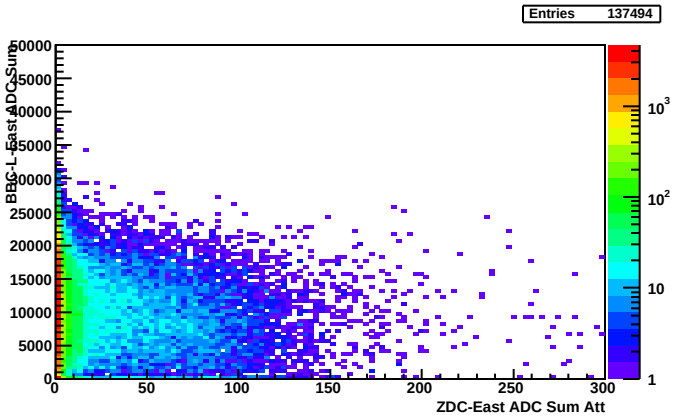

Entries 137494
TOF Mult
BBC-S-West ADC Sum

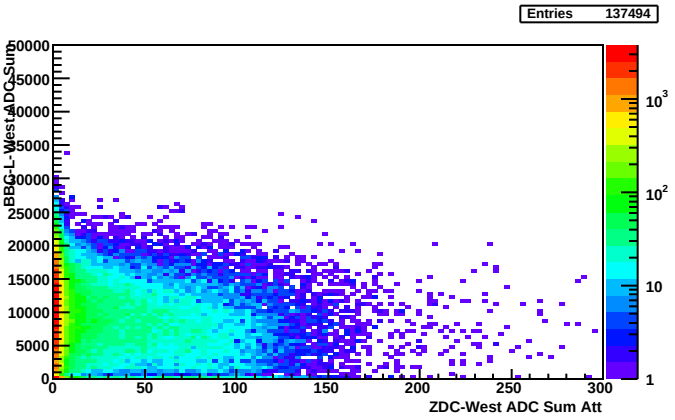

Entries 137494
TOF Mult
ZDC-East ADC Sum Att

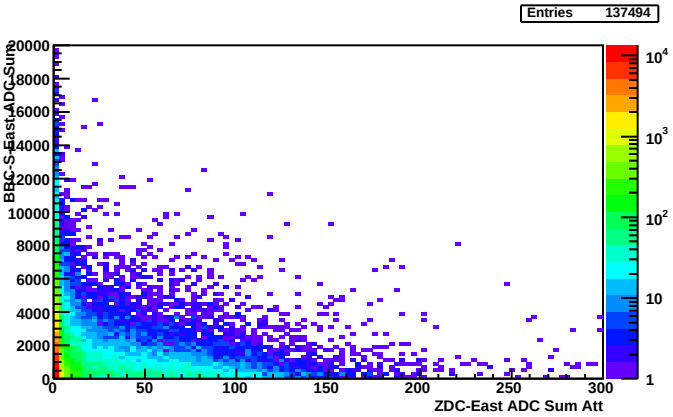

Entries 137494
TOF Mult
ZDC-West ADC Sum Att

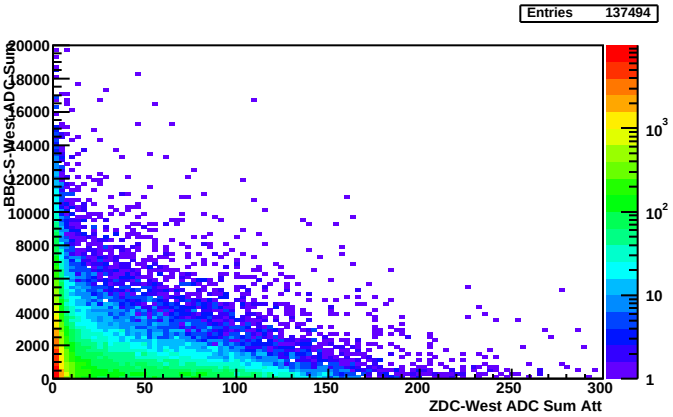

Entries 137494
BBC-L-East ADC Sum
BBC-S-East ADC Sum

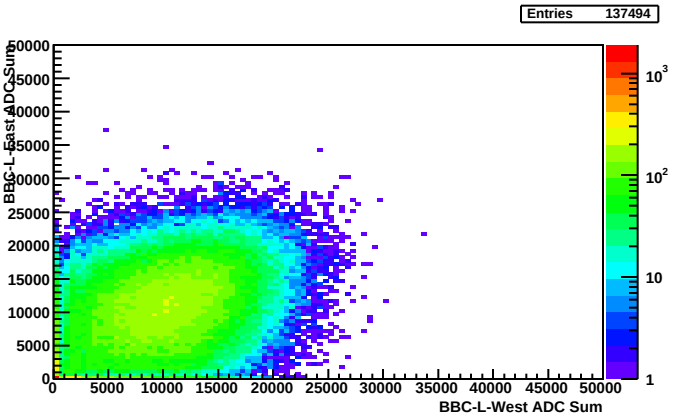

Entries 137494
BBC-L-West ADC Sum
BBC-S-West ADC Sum

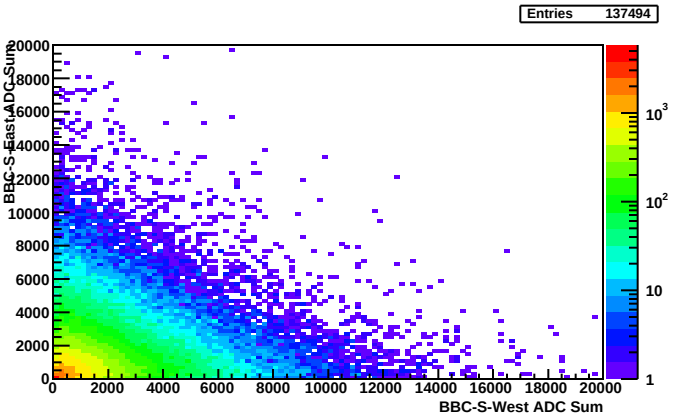

Entries 137494
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

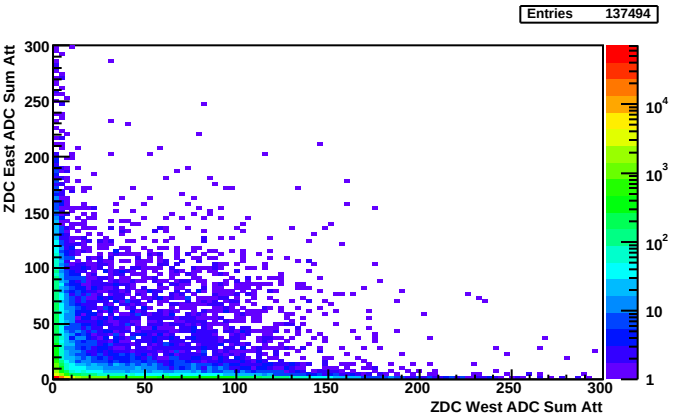

Entries 137494
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

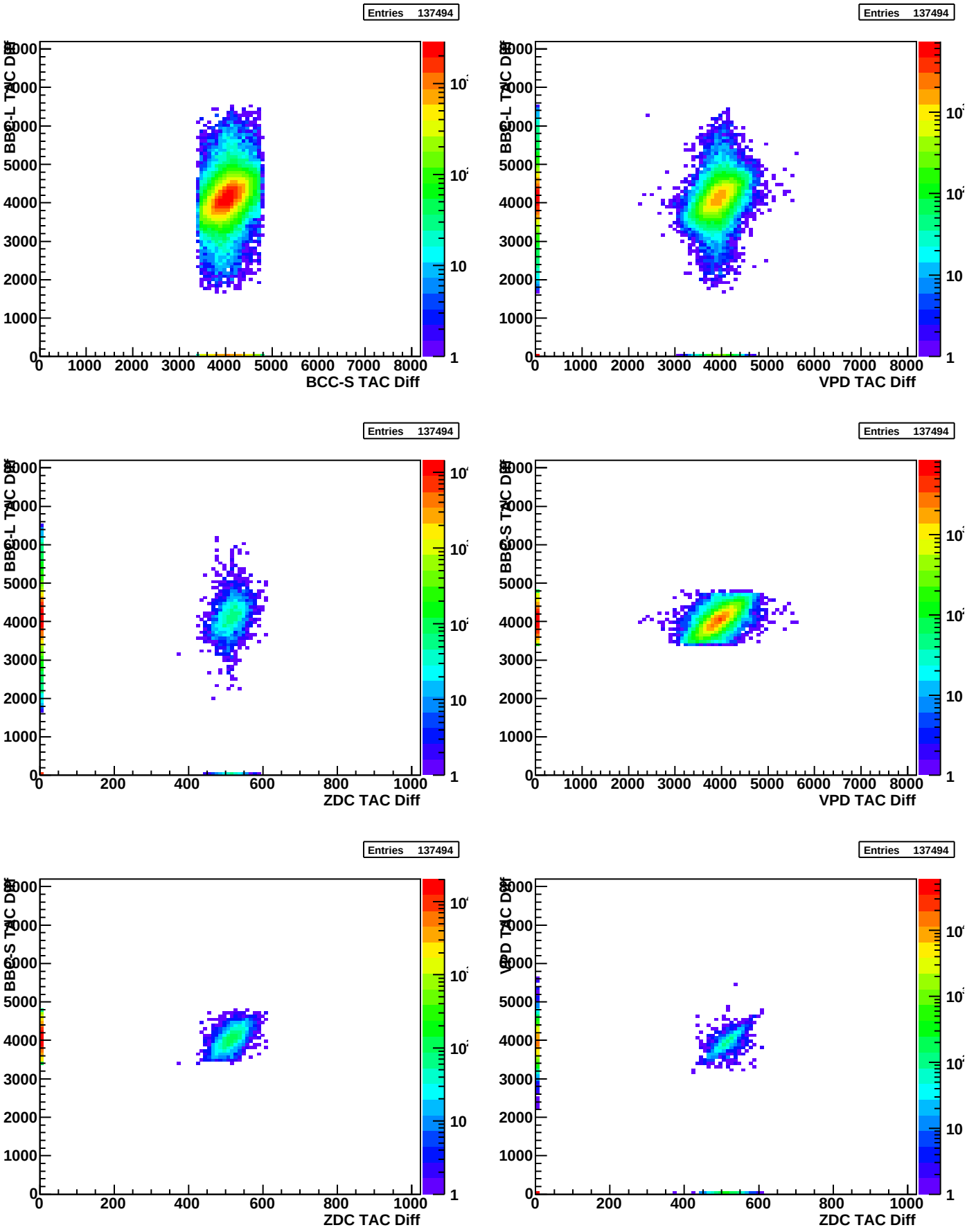

Entries 137494
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

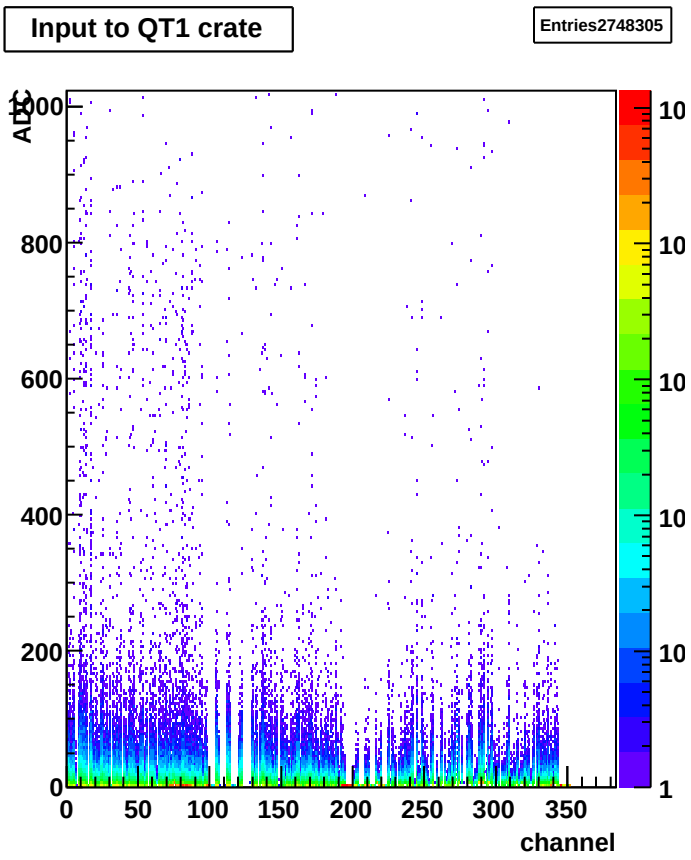

Entries 137494
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

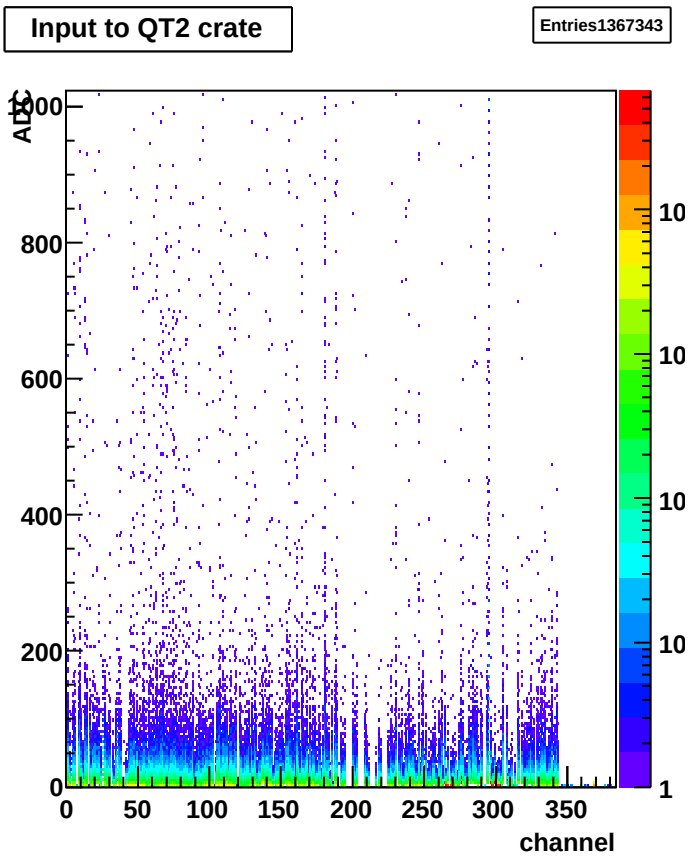

Entries 137494
BBC-L-East ADC Sum
BBC-L-West ADC Sum

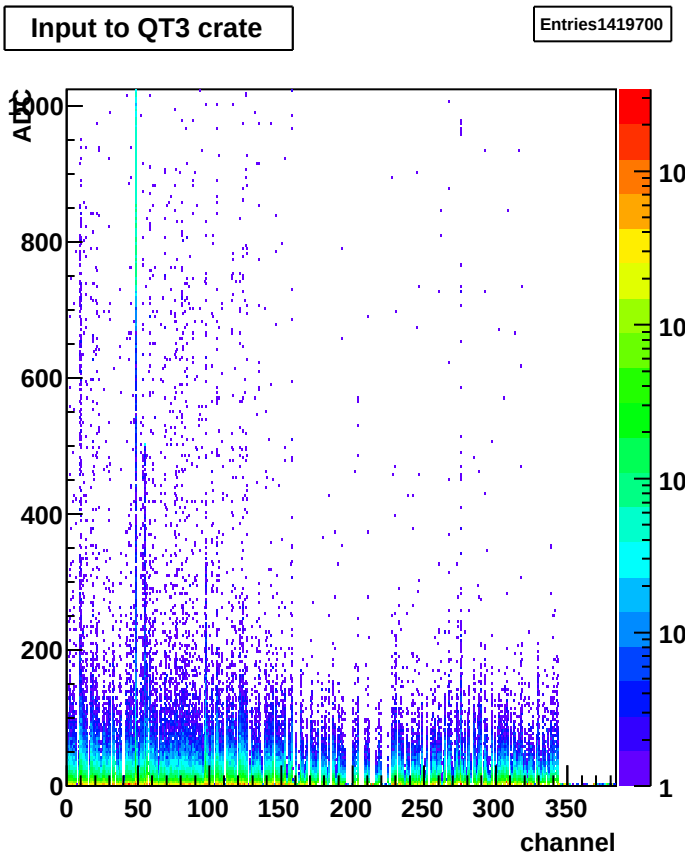

Entries 137494
BBC-S-East ADC Sum
BBC-S-West ADC Sum

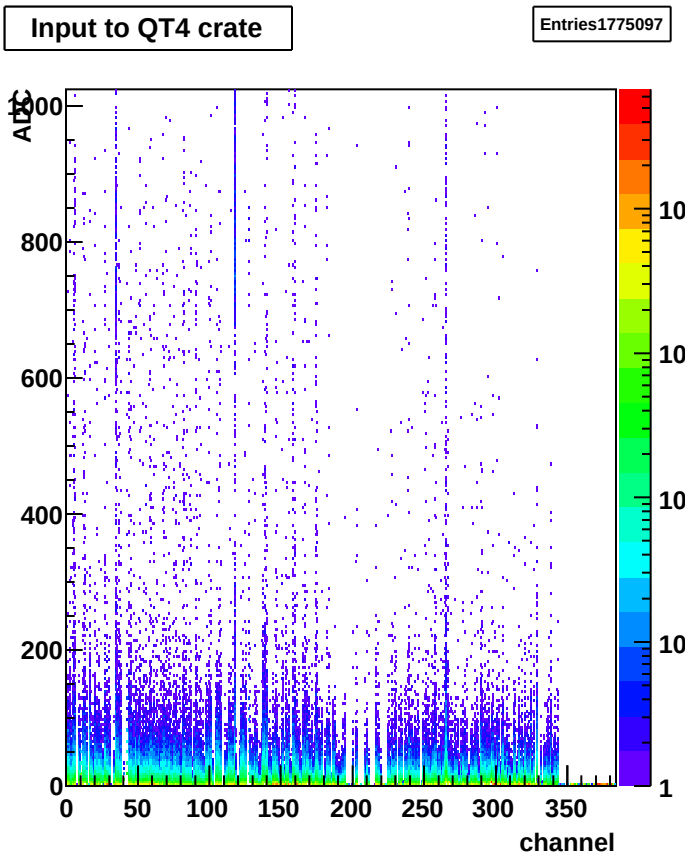

Entries 137494
ZDC East ADC Sum Att
ZDC West ADC Sum Att

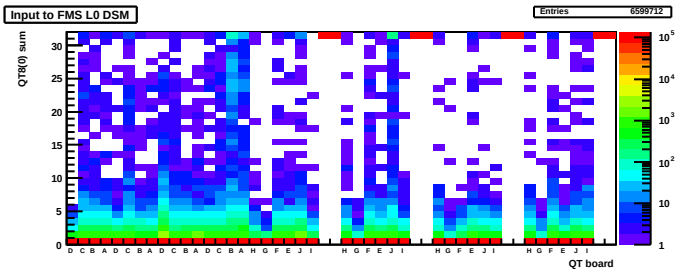

Entries 137494
BBC-L TAC Diff
BCC-S TAC Diff
Entries 137494
BBC-L TAC Diff
VPD TAC Diff
Entries 137494
BBC-L TAC Diff
ZDC TAC Diff
Entries 137494
BBC-S TAC Diff
VPD TAC Diff
Entries 137494
BBC-S TAC Diff
ZDC TAC Diff
Entries 137494
VPD TAC Diff
ZDC TAC Diff

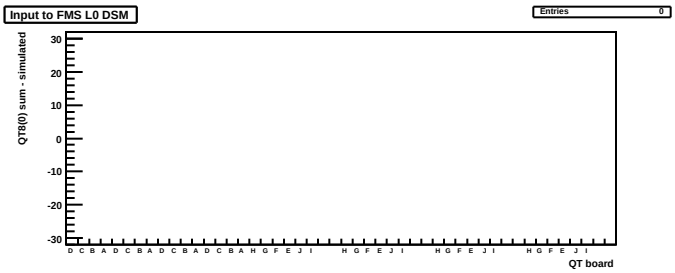

Input to QT1 crate
Entries2748305
ADC
channel

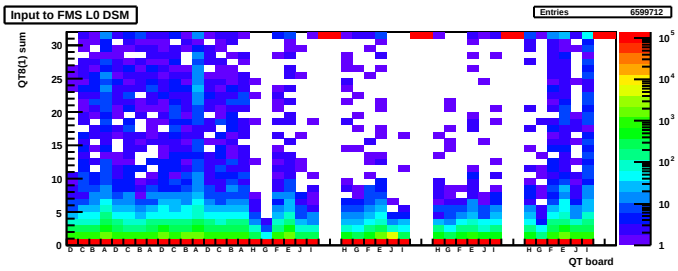

Input to QT2 crate
Entries1367343
ADC
channel

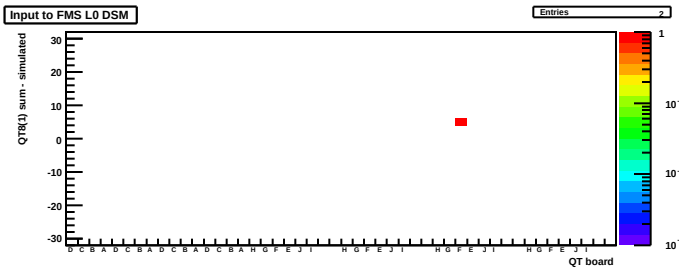

Input to QT3 crate
Entries1419700
ADC
channel

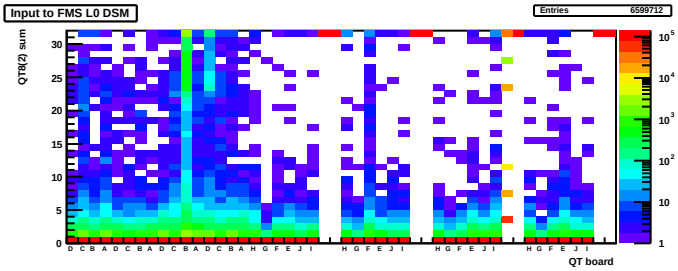

Input to QT4 crate
Entries1775097
ADC
channel

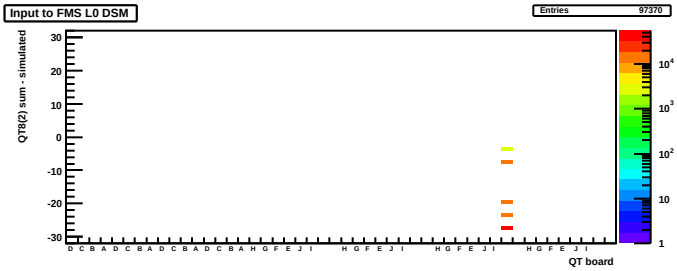

Input to FMS L0 DSM
Entries 6599712
QT8(0) sum
QT board

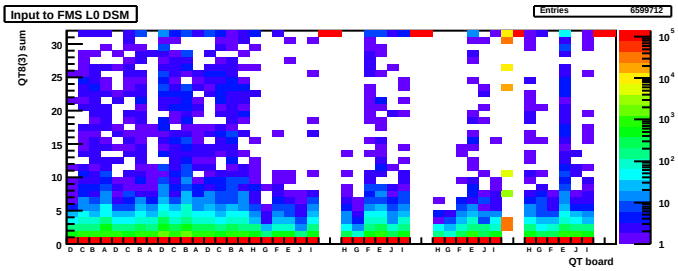

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

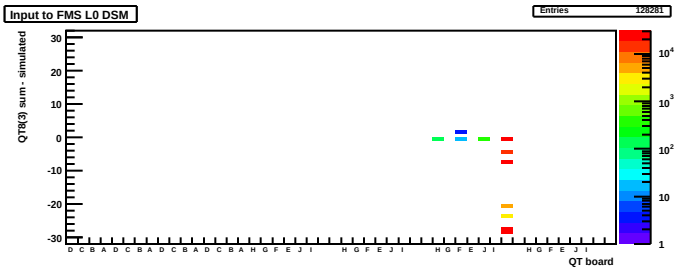

Input to FMS L0 DSM
Entries 6599712
QT8(1) sum
QT board

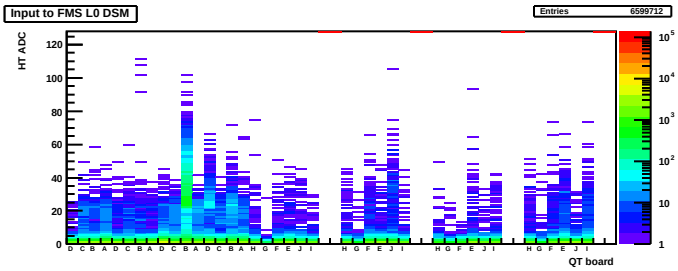

Input to FMS L0 DSM
Entries 2
QT8(1) sum - simulated
QT board

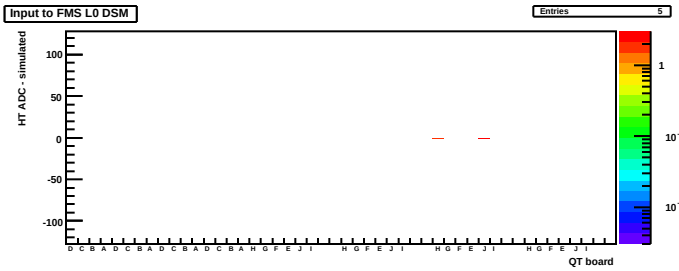

Input to FMS L0 DSM
Entries 6599712
QT8(2) sum
QT board

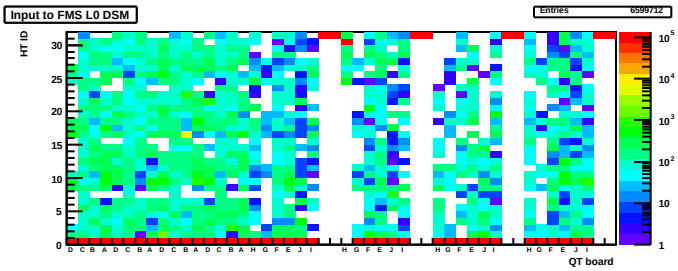

Input to FMS L0 DSM
Entries 97370
QT8(2) sum - simulated
QT board

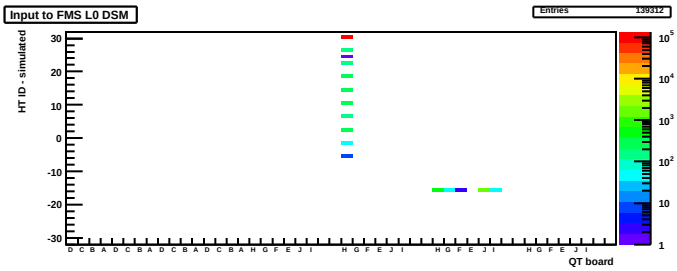

Input to FMS L0 DSM
Entries 6599712
QT8(3) sum
QT board

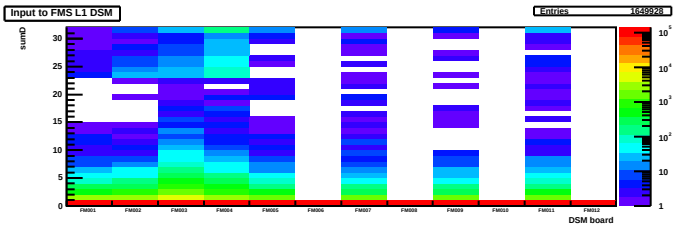

Input to FMS L0 DSM
Entries 128281
QT8(3) sum - simulated
QT board

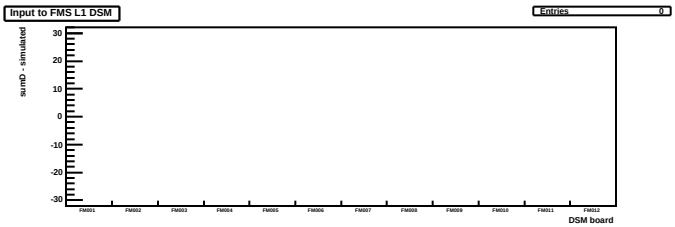

Input to FMS L0 DSM
Entries 6599712
HT ADC
QT board

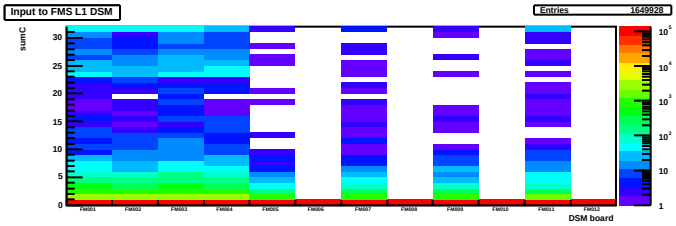

Input to FMS L0 DSM
Entries 5
HT ADC - simulated
QT board

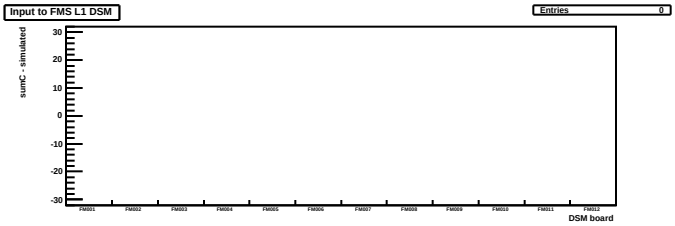

Input to FMS L0 DSM
Entries 6599712
HT ID
QT board

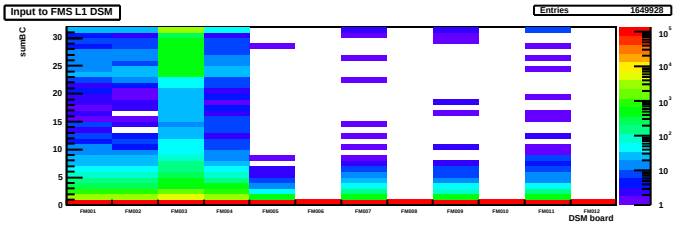

Input to FMS L0 DSM
Entries 139312
HT ID - simulated
QT board

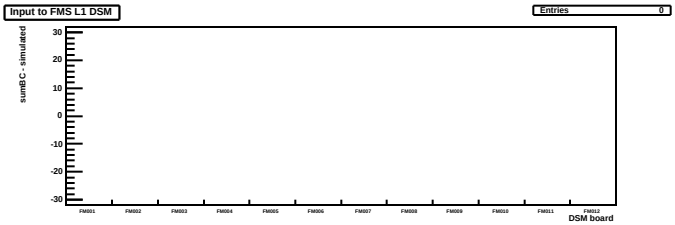

Input to FMS L1 DSM
Entries 1649928
sumD
DSM board

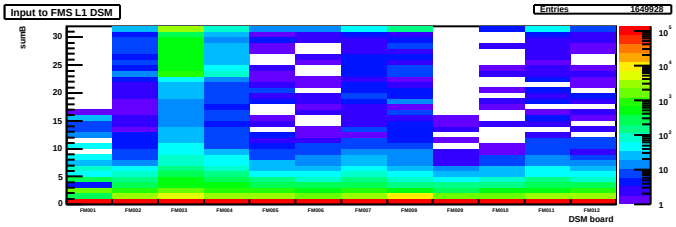

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

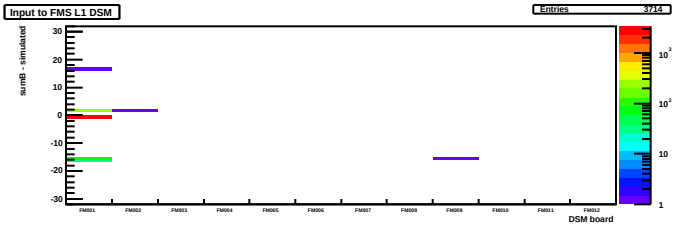

Input to FMS L1 DSM
Entries 1649928
sumC
DSM board

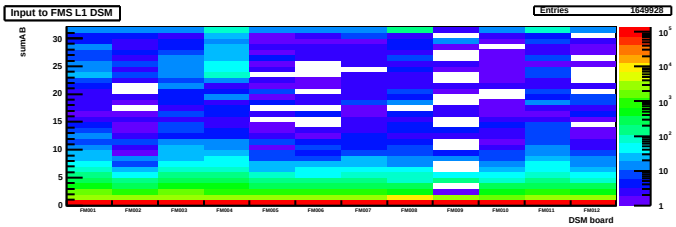

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

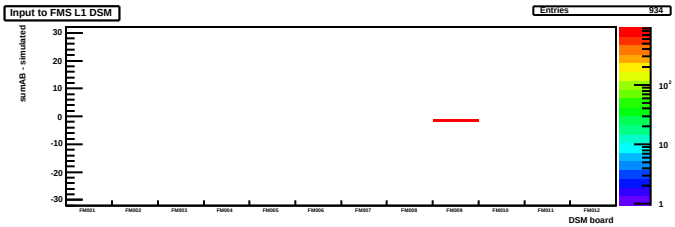

Input to FMS L1 DSM
Entries 1649928
sumBC
DSM board

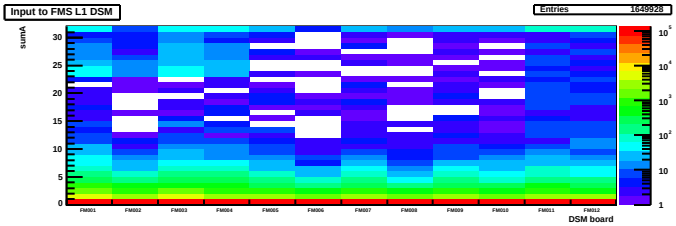

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

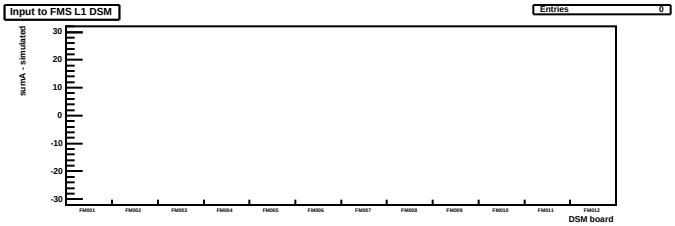

Input to FMS L1 DSM
Entries 1649928
sumB
DSM board

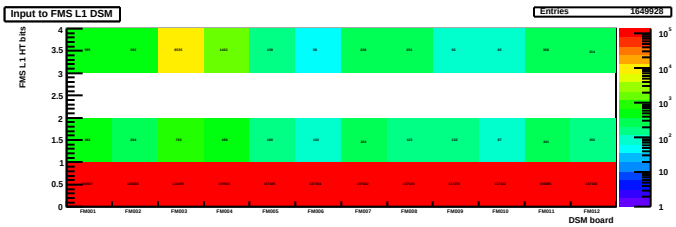

Input to FMS L1 DSM
Entries 3714
sumB - simulated
DSM board

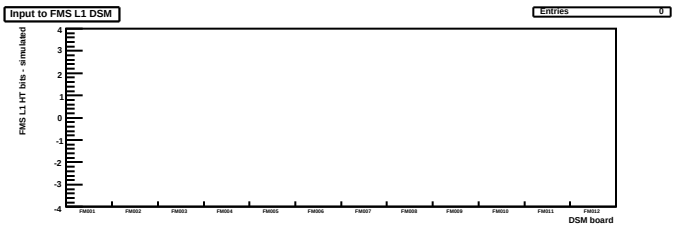

Input to FMS L1 DSM
Entries 1649928
sumAB
DSM board

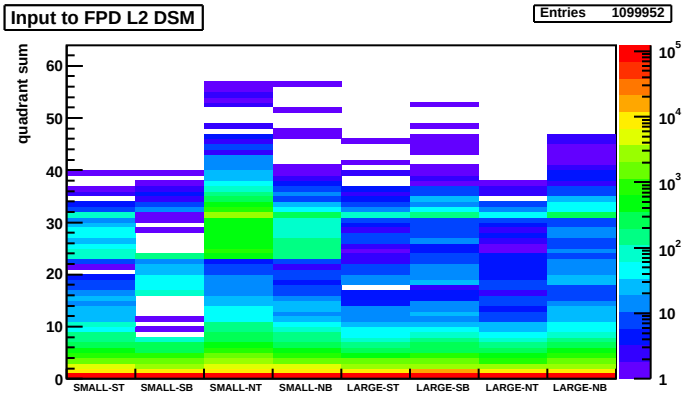

Input to FMS L1 DSM
Entries 934
sumAB - simulated
DSM board

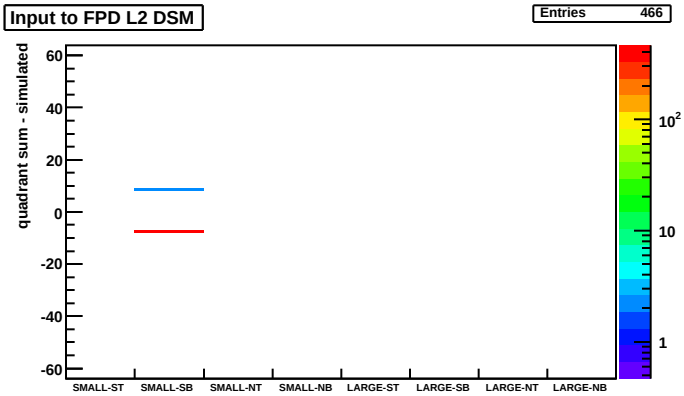

Input to FMS L1 DSM
Entries 1649928
sumA
DSM board

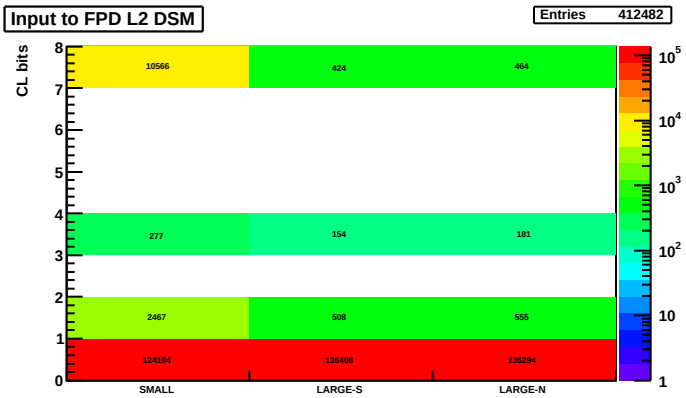

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

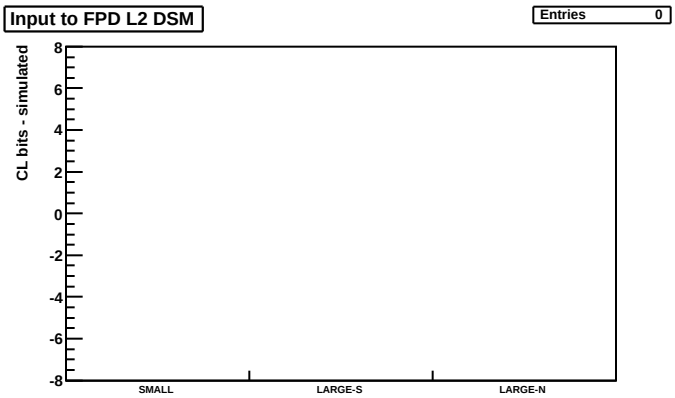

Input to FMS L1 DSM
Entries 1649928
FMS L1 HT bits
DSM board

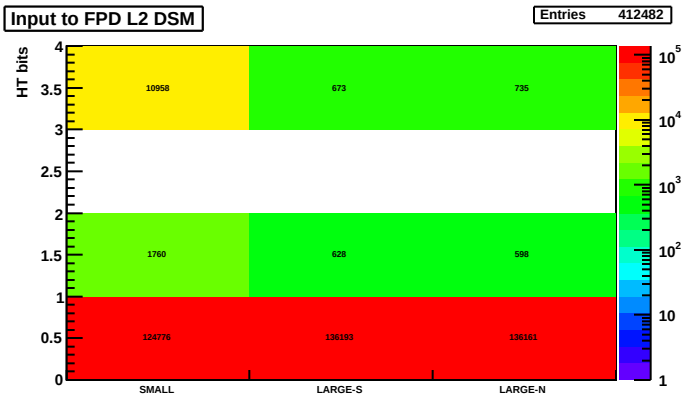

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

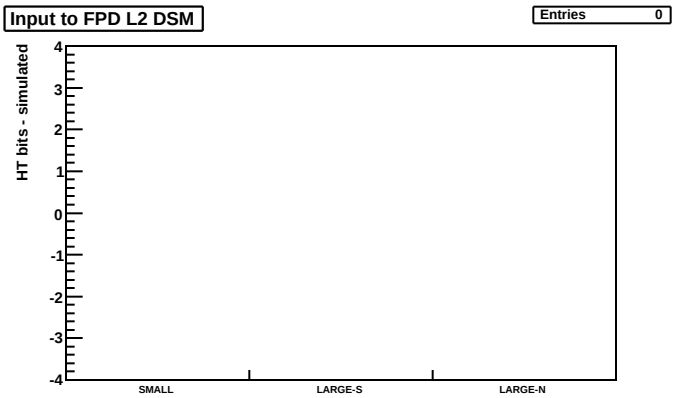

Input to FPD L2 DSM
Entries 1099952
quadrant sum
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

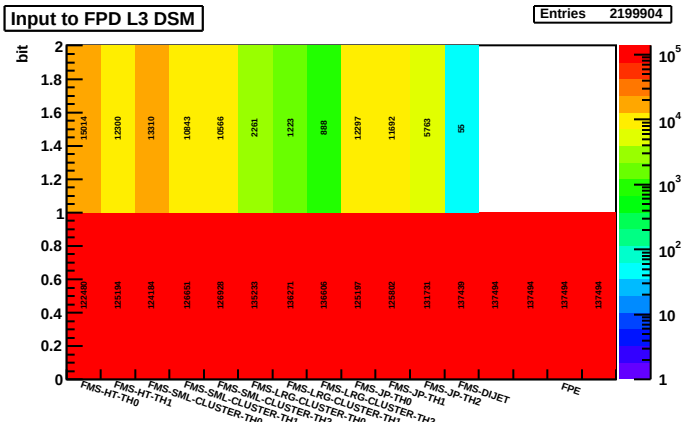

Input to FPD L2 DSM
Entries 466
quadrant sum - simulated
SMALL-ST SMALL-SB SMALL-NT SMALL-NB LARGE-ST LARGE-SB LARGE-NT LARGE-NB

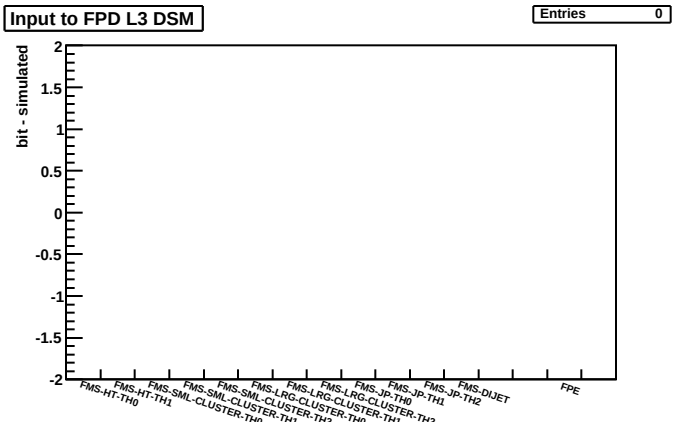

Input to FPD L2 DSM
Entries 412482
CL bits
10566 424 464
277 154 181
2467 508 555
124184 136408 136294
SMALL LARGE-S LARGE-N

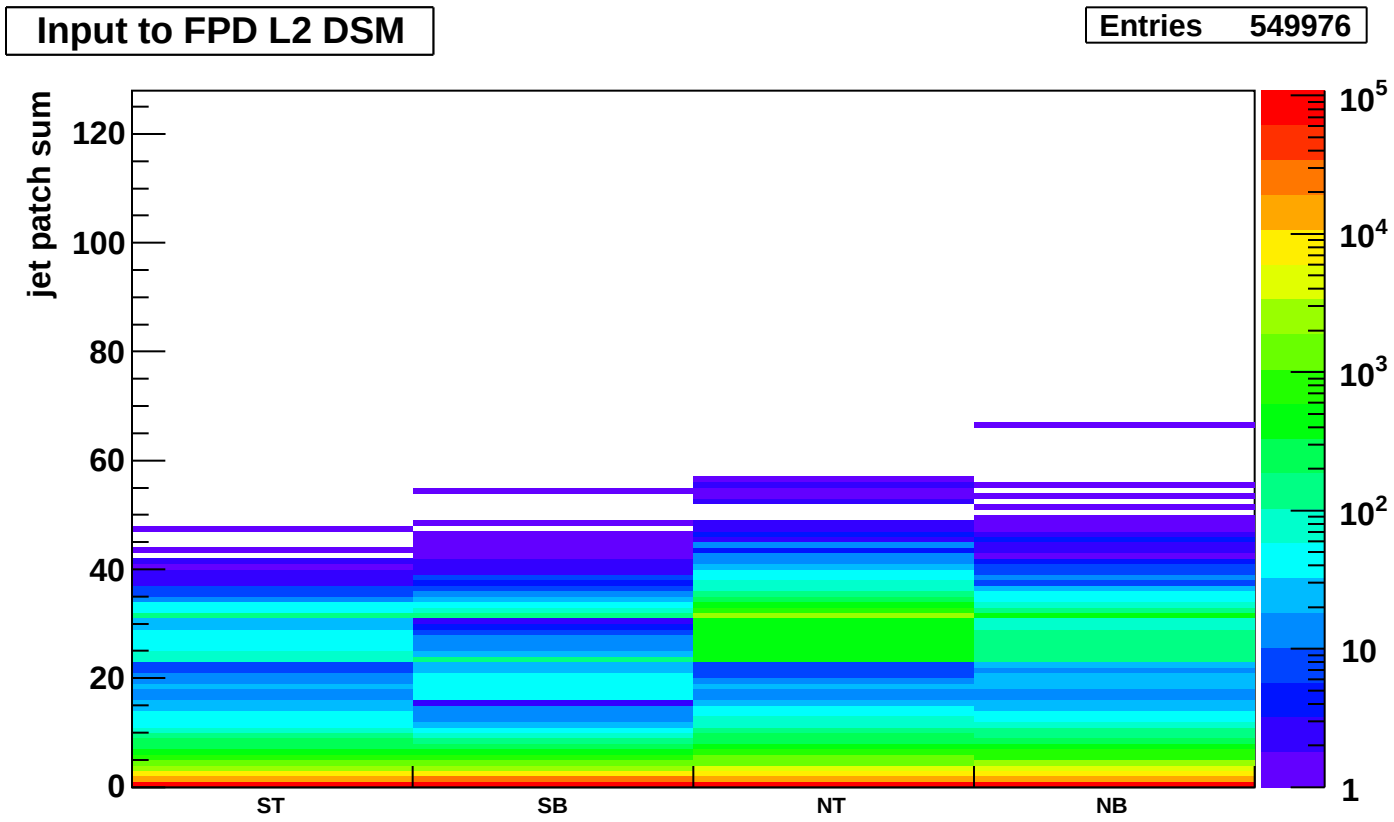

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL LARGE-S LARGE-N

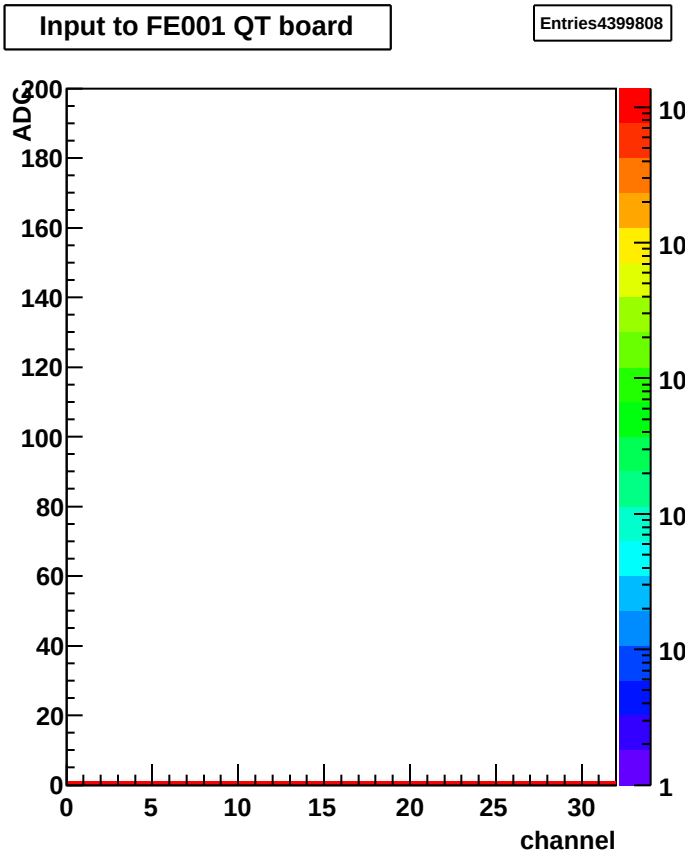

Input to FPD L2 DSM
Entries 412482
HT bits
10958 673 735
1760 628 598
124776 136193 136161
SMALL LARGE-S LARGE-N

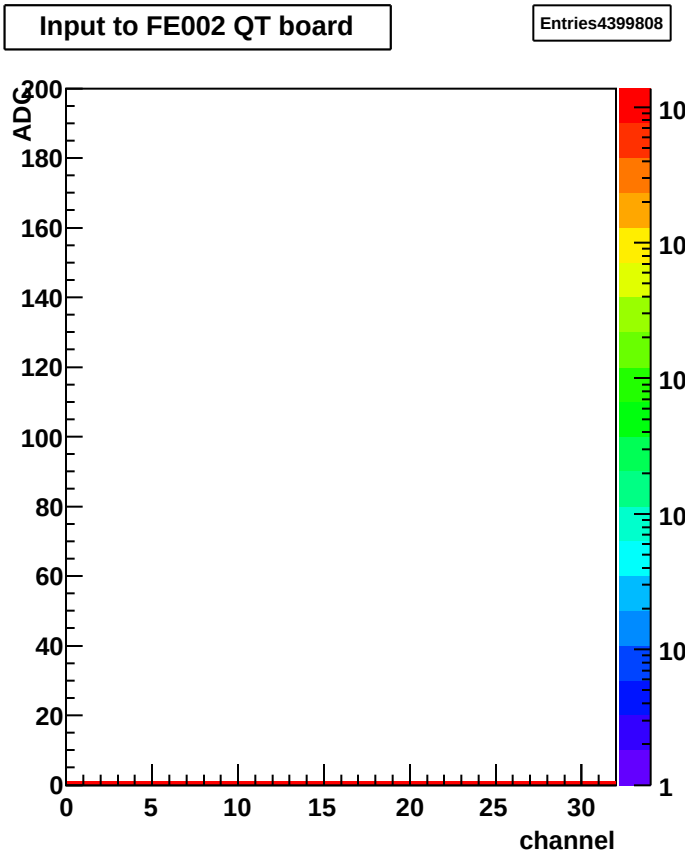

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL LARGE-S LARGE-N

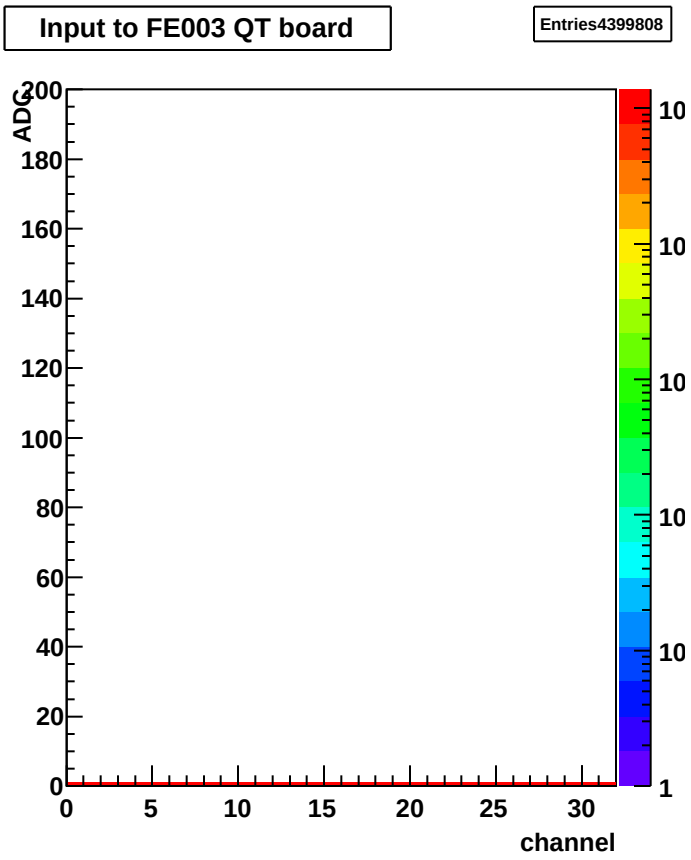

Input to FPD L3 DSM
Entries 2199904
bit
FMS-HT-TH0 FMS-HT-TH1 FMS-SML-CLUSTER-TH0 FMS-SML-CLUSTER-TH1 FMS-SML-CLUSTER-TH2 FMS-LRG-CLUSTER-TH0 FMS-LRG-CLUSTER-TH1 FMS-LRG-CLUSTER-TH2 FMS-JP-TH0 FMS-JP-TH1 FMS-JP-TH2 FMS-DIJET FPE

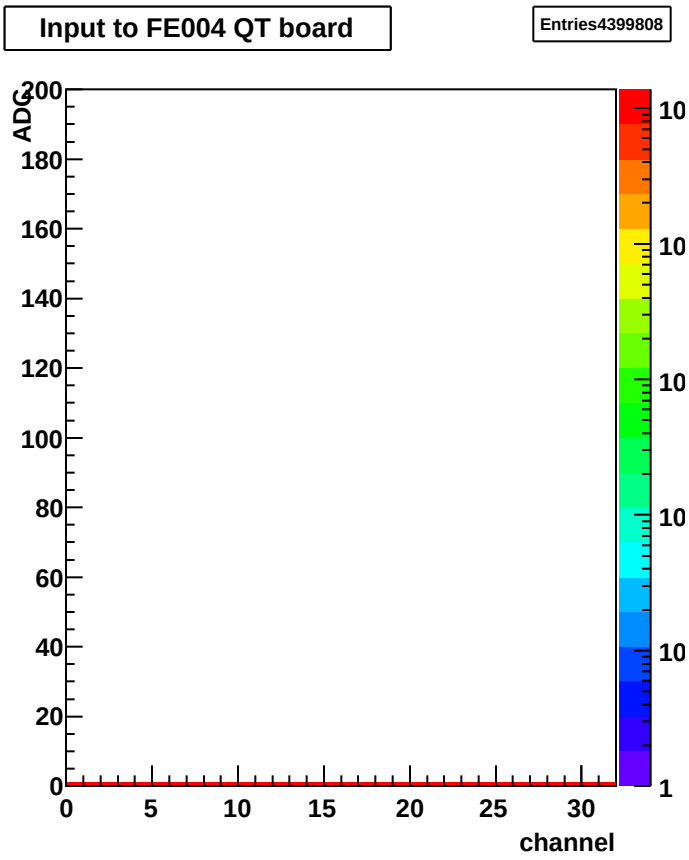

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0 FMS-HT-TH1 FMS-SML-CLUSTER-TH0 FMS-SML-CLUSTER-TH1 FMS-SML-CLUSTER-TH2 FMS-LRG-CLUSTER-TH0 FMS-LRG-CLUSTER-TH1 FMS-LRG-CLUSTER-TH2 FMS-JP-TH0 FMS-JP-TH1 FMS-JP-TH2 FMS-DIJET FPE

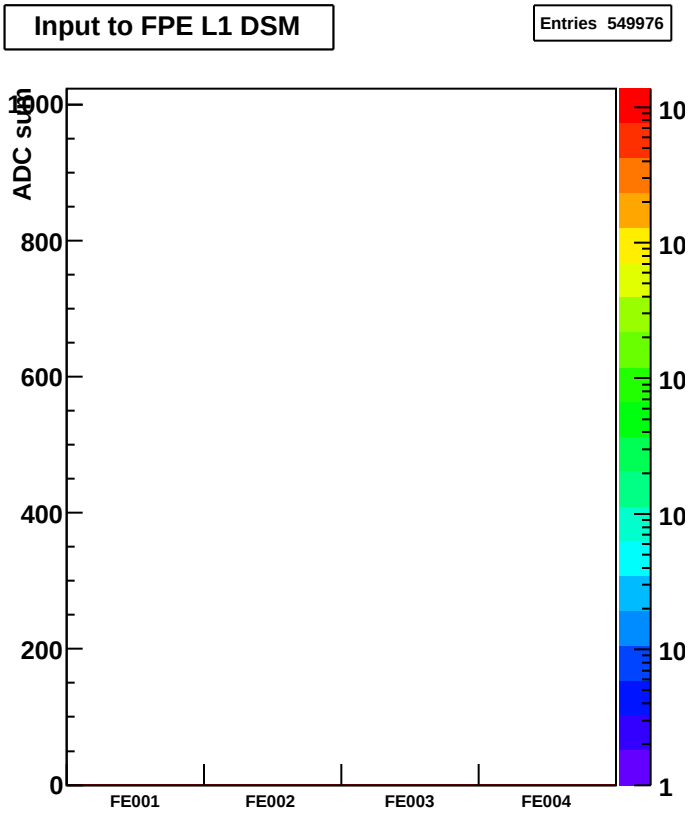

Input to FPD L2 DSM
Entries 549976
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

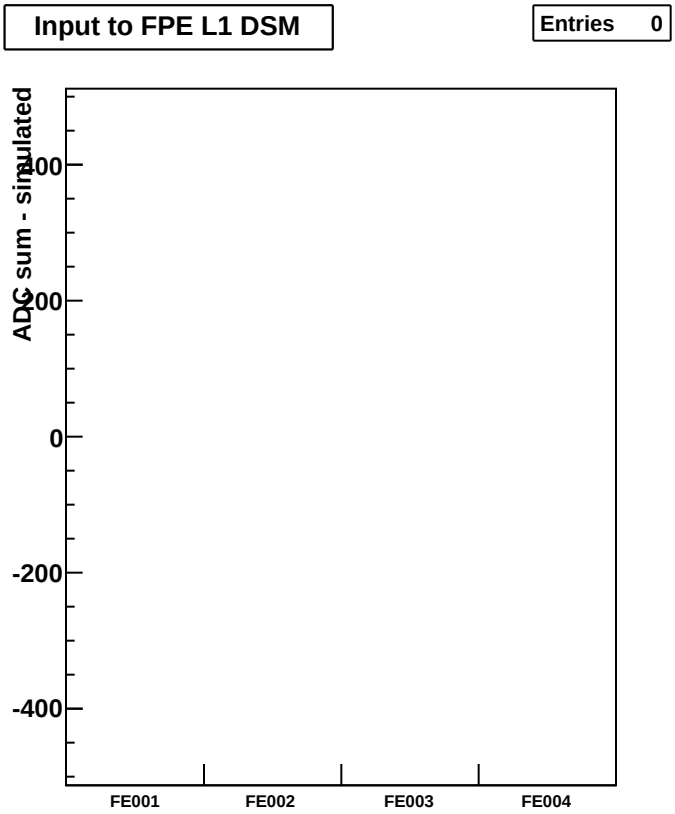

Input to FE001 QT board
Entries4399808
ADC
channel

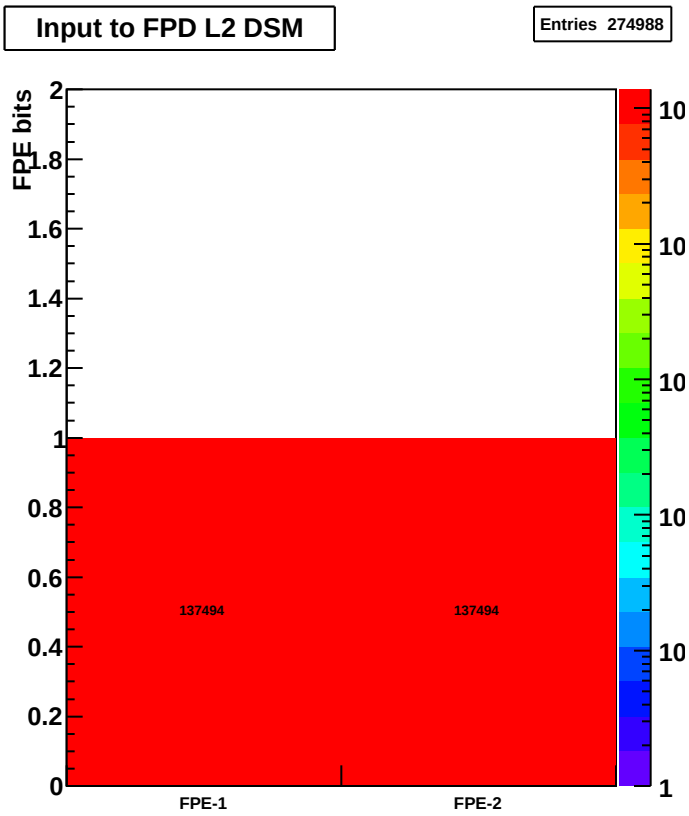

Input to FE002 QT board
Entries4399808
ADC
channel

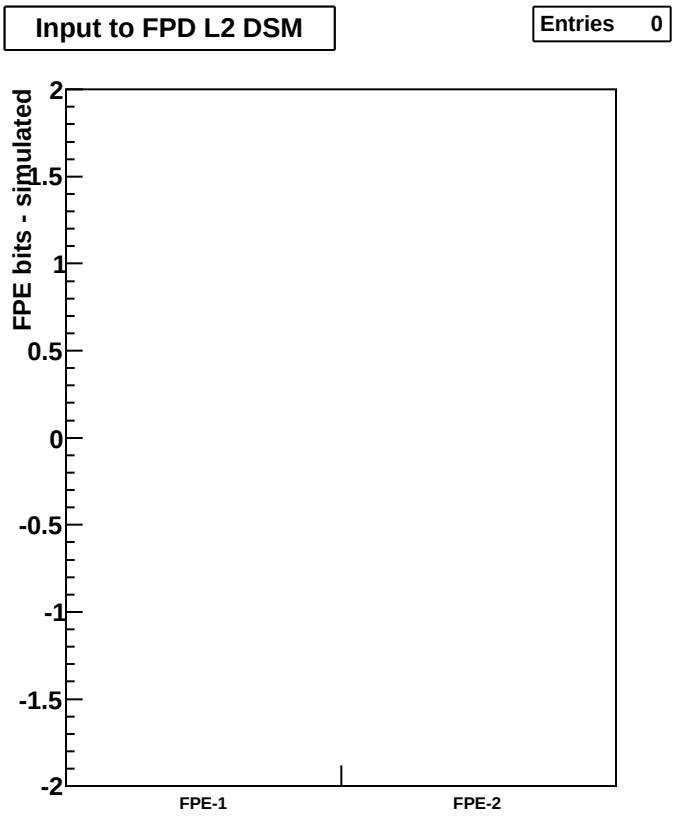

Input to FE003 QT board
Entries4399808
ADC
channel


Input to FE004 QT board
Entries4399808
ADC
channel


Input to FPE L1 DSM
Entries 549976
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 274988
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
137494
137494
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