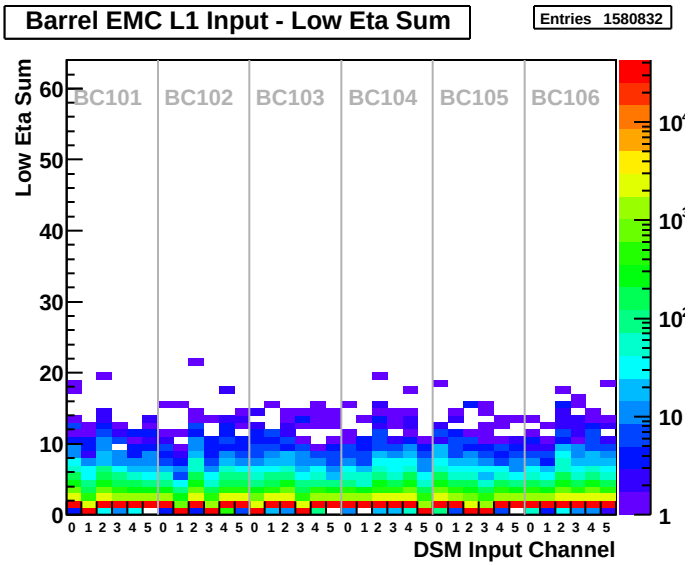
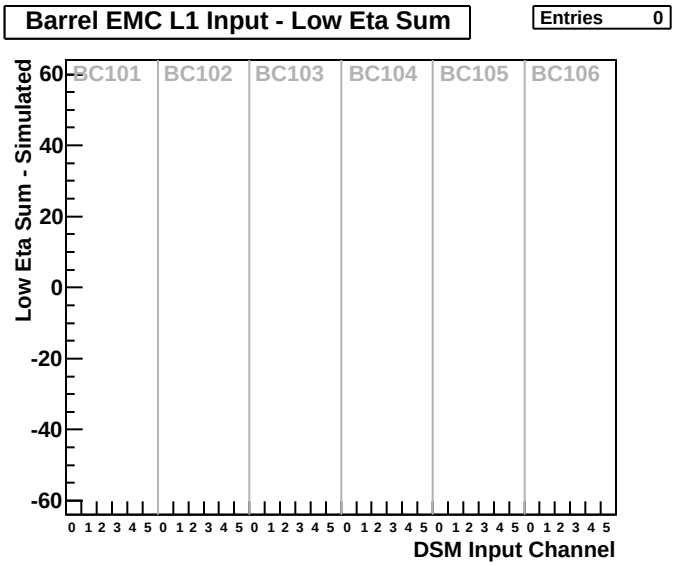
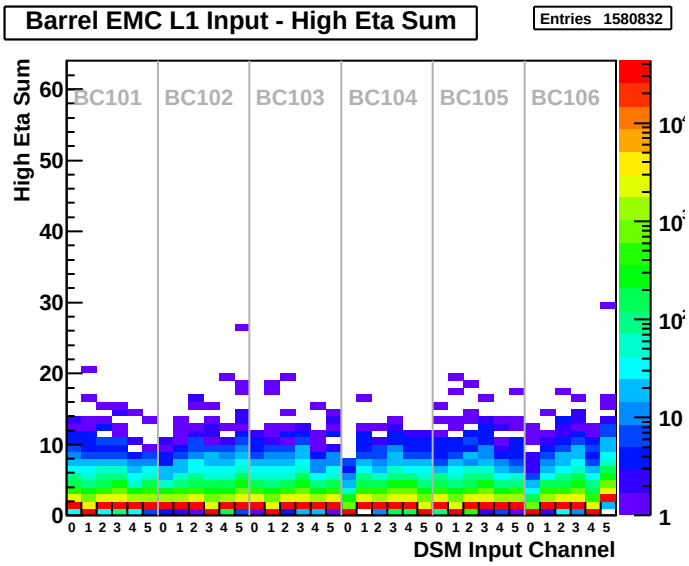
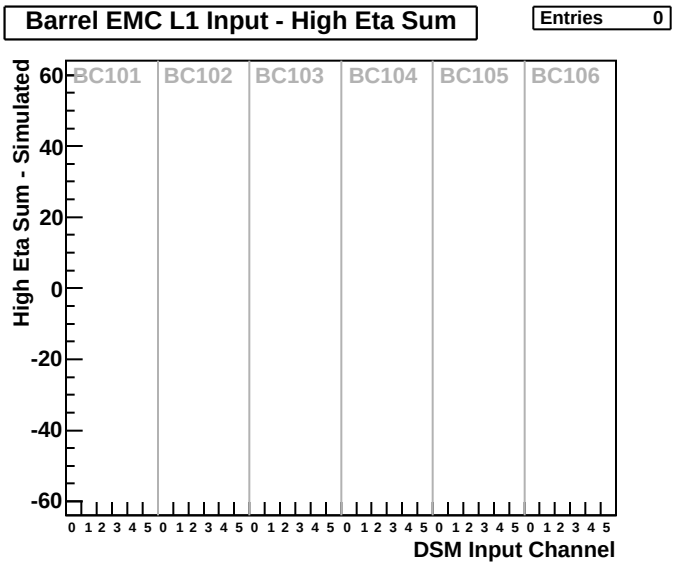
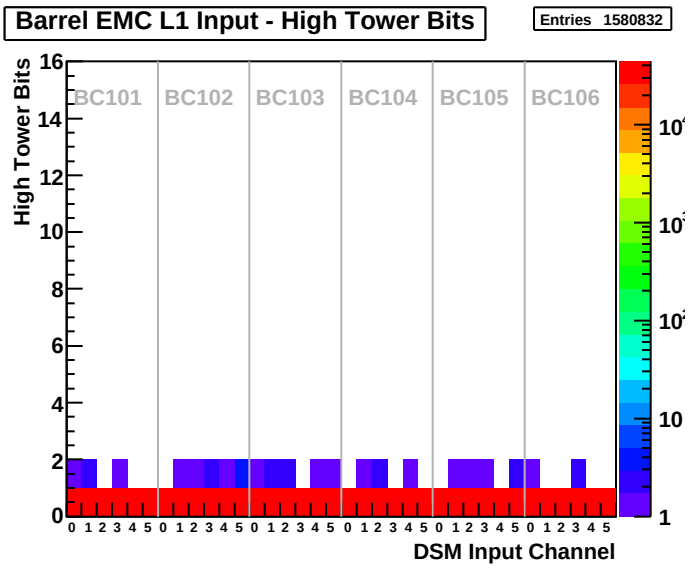
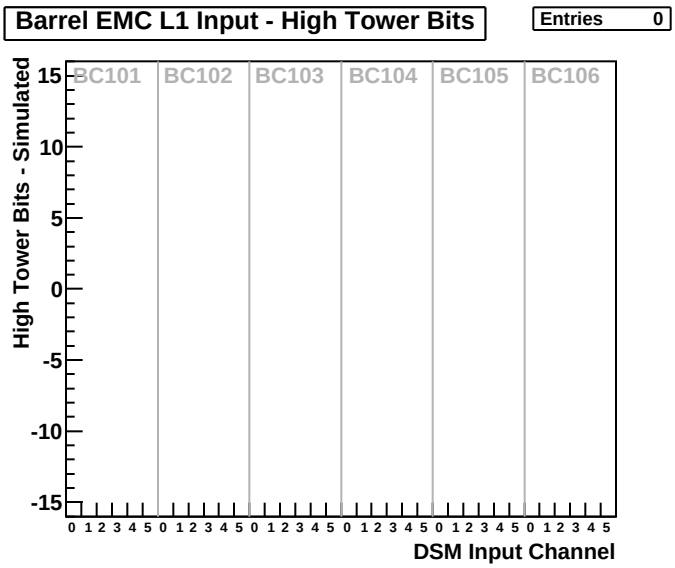

Barrel EMC L1 Input - Low Eta Sum
Entries 1580832
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

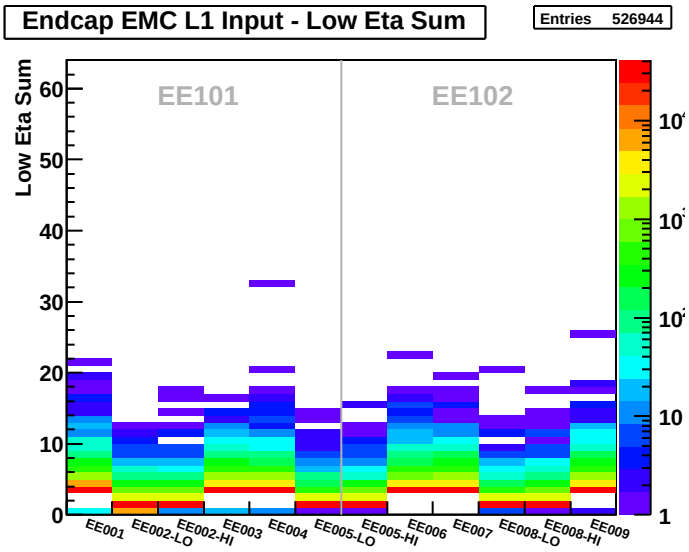

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

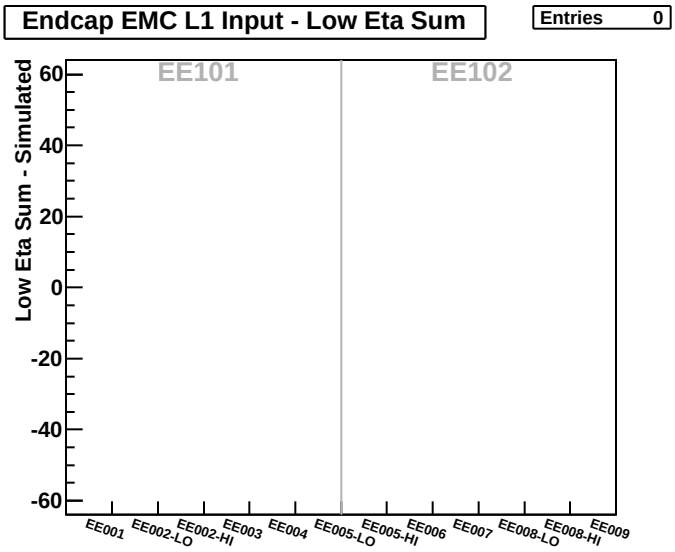

Barrel EMC L1 Input - High Eta Sum
Entries 1580832
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

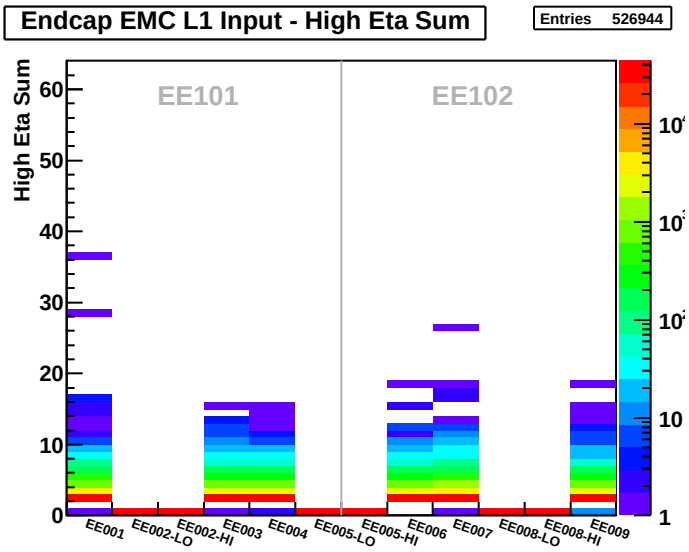

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

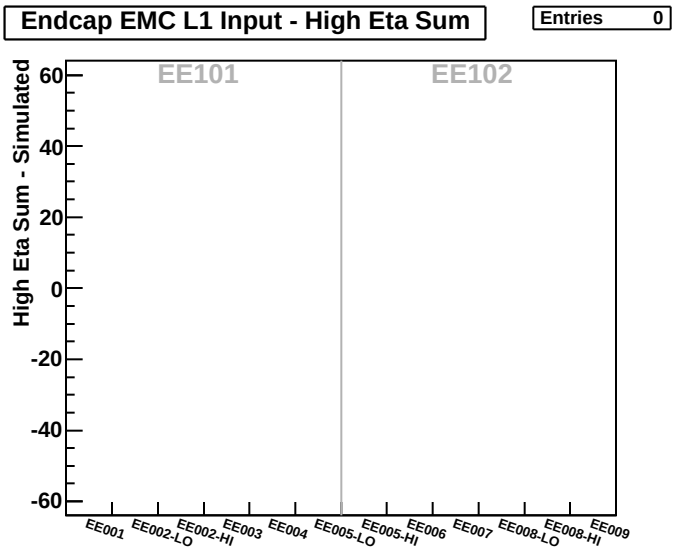

Barrel EMC L1 Input - High Tower Bits
Entries 1580832
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

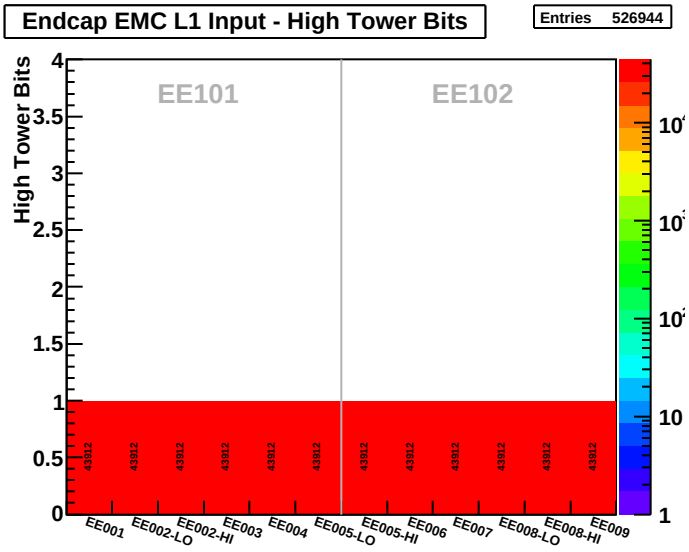

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

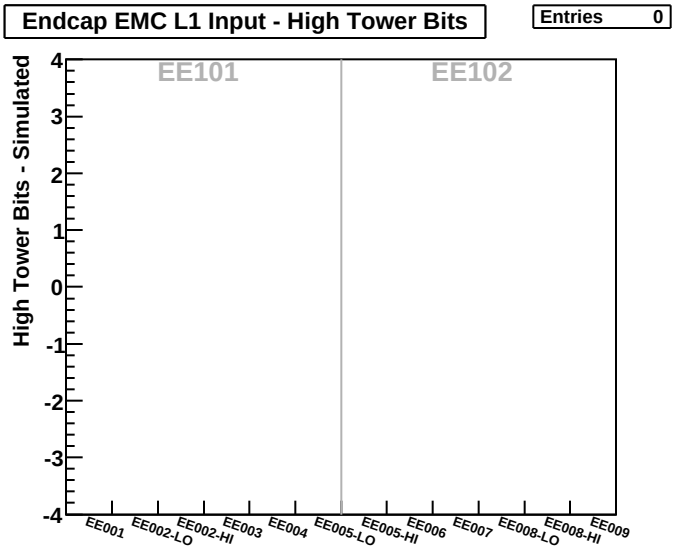

Endcap EMC L1 Input - Low Eta Sum
Entries 526944
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

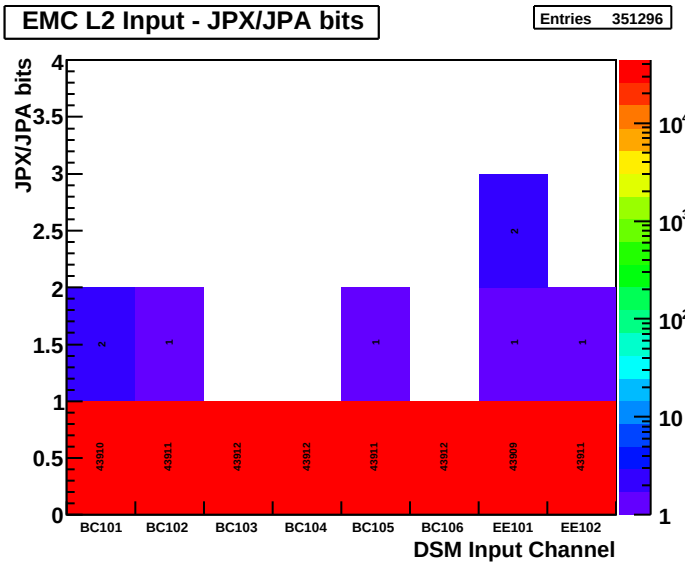

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

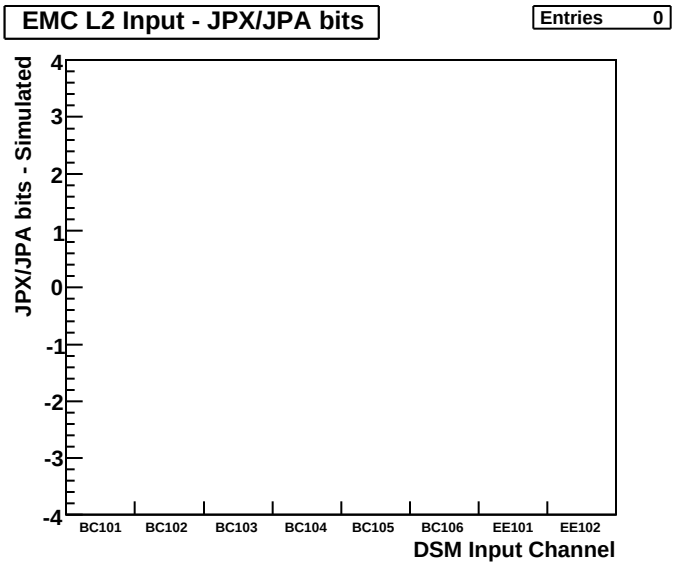

Endcap EMC L1 Input - High Eta Sum
Entries 526944
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

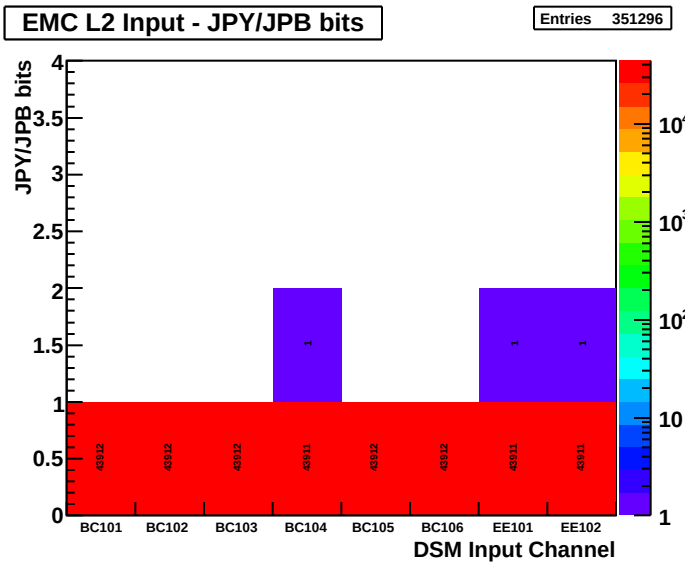

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

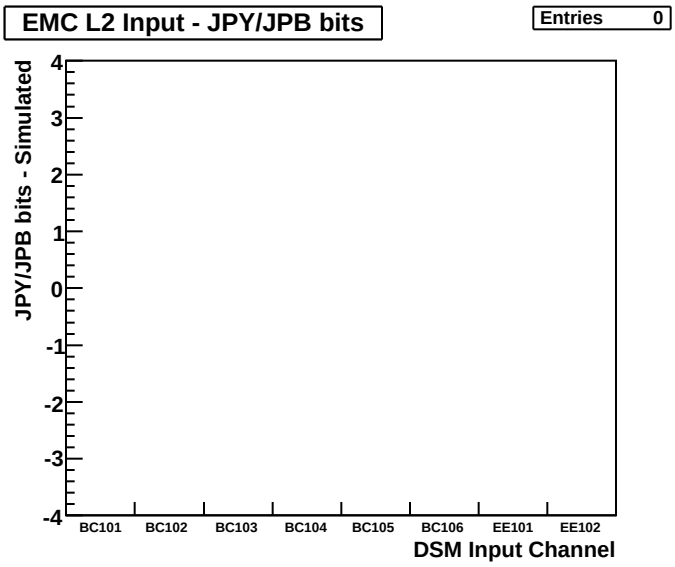

Endcap EMC L1 Input - High Tower Bits
Entries 526944
High Tower Bits
EE101
EE102
43912
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

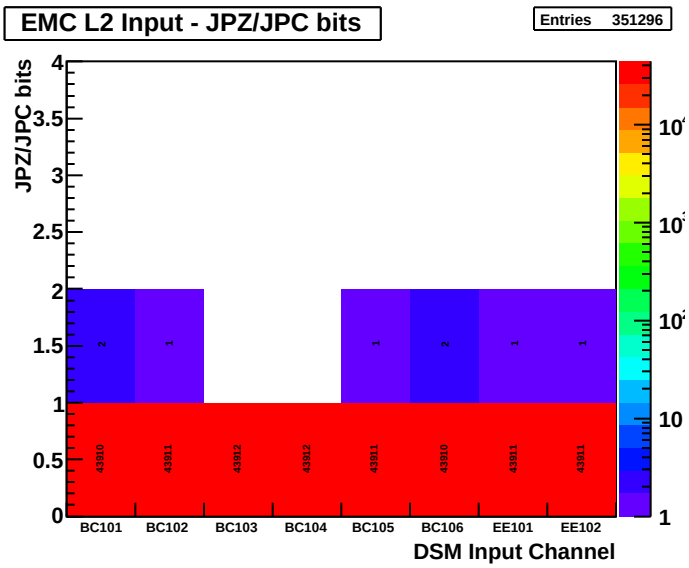

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

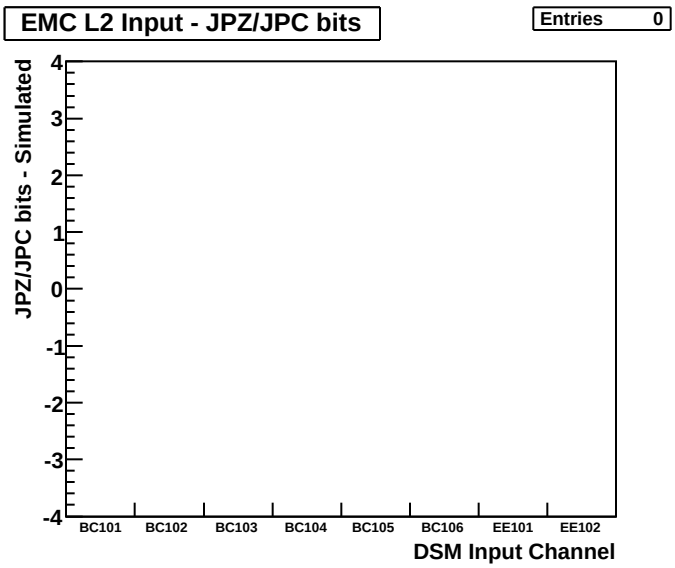

EMC L2 Input - JPX/JPA bits
Entries 351296
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

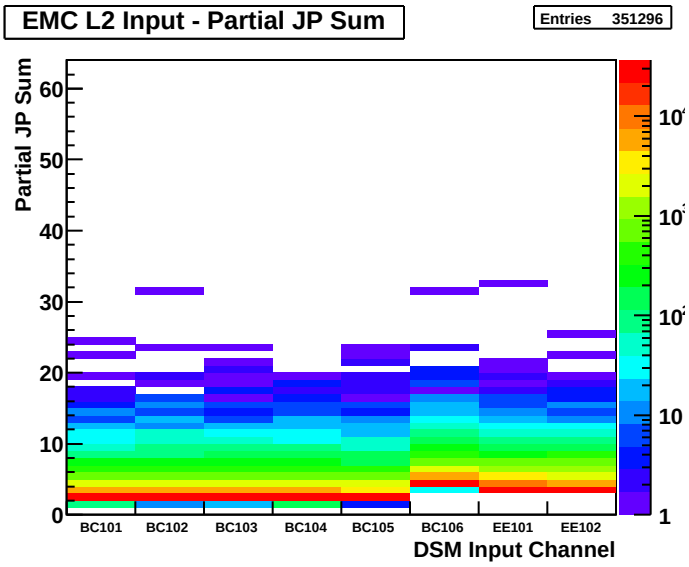

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

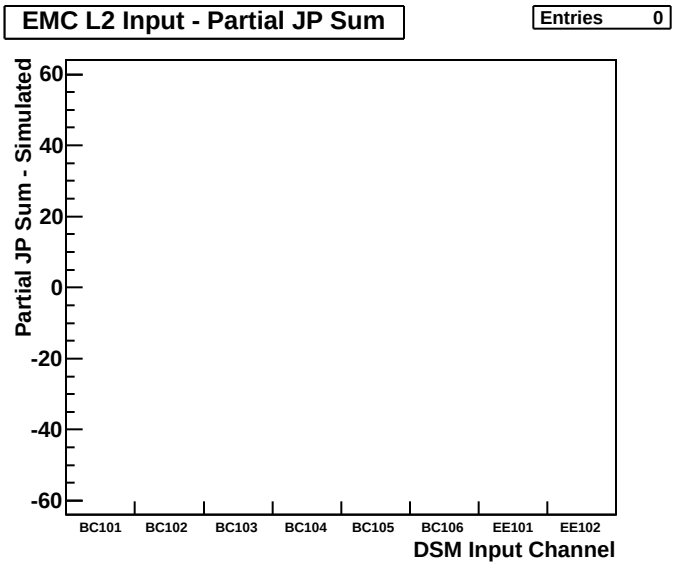

EMC L2 Input - JPY/JPB bits
Entries 351296
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

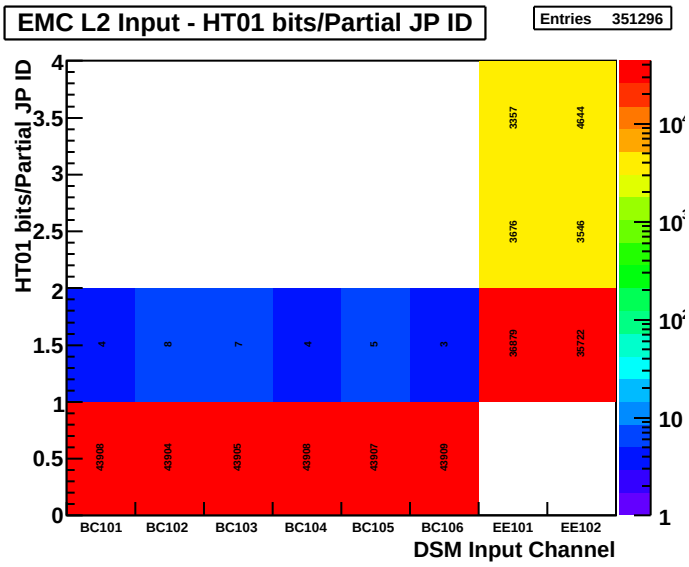

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

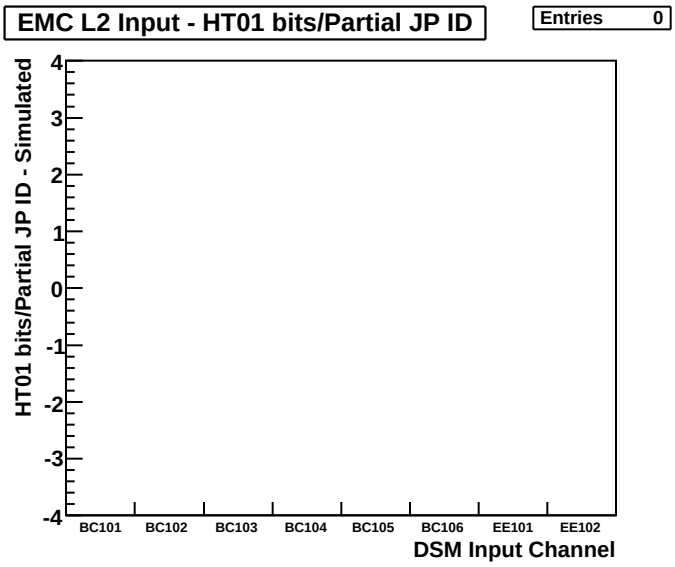

EMC L2 Input - JPZ/JPC bits
Entries 351296
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

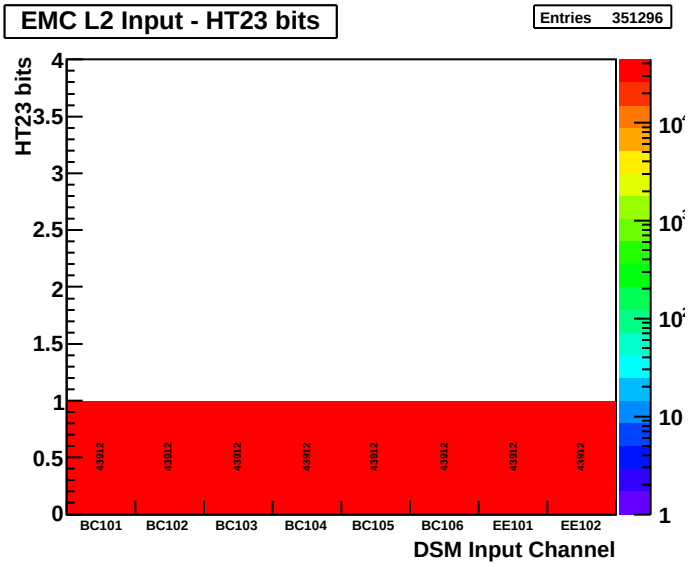

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

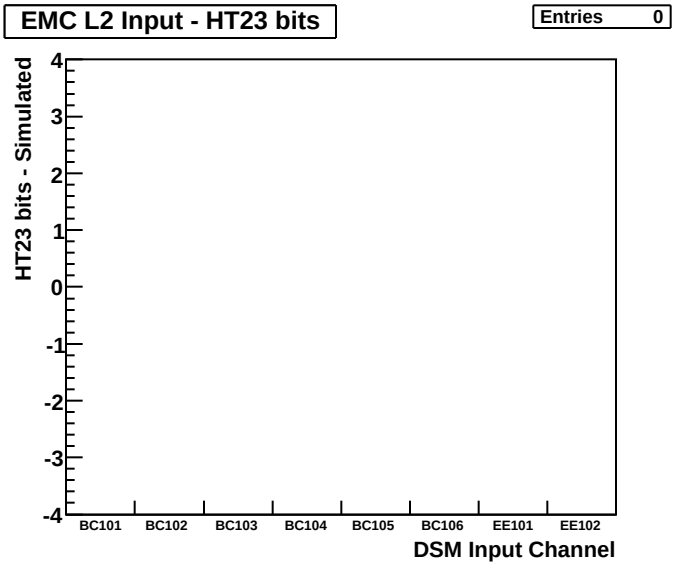

EMC L2 Input - Partial JP Sum
Entries 351296
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

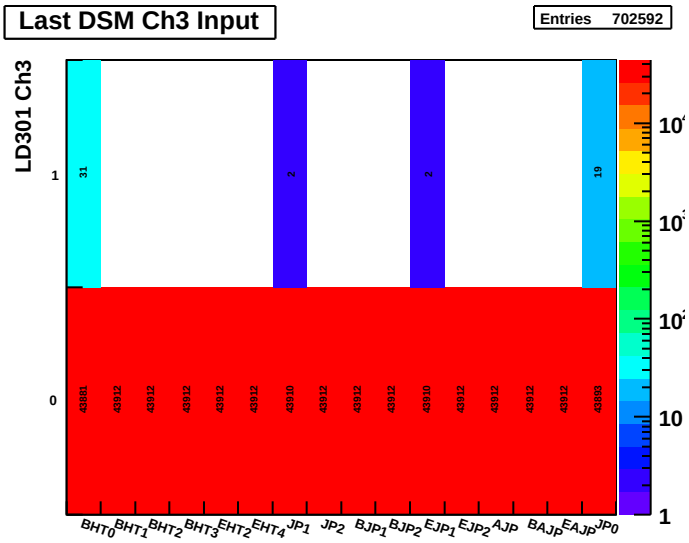

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

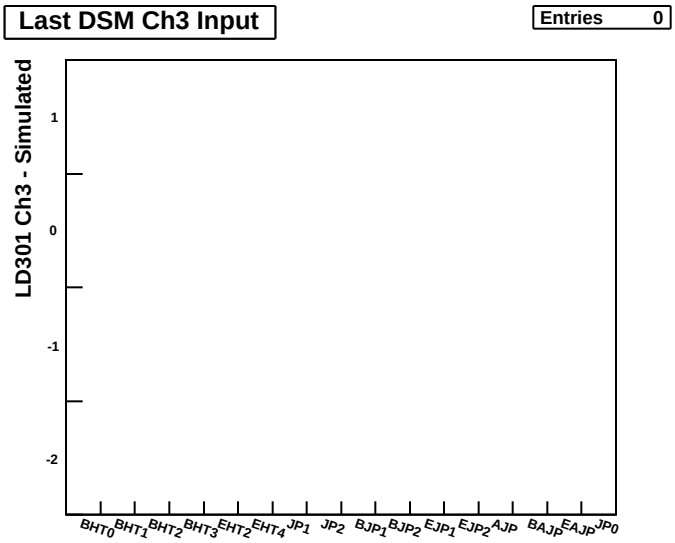

EMC L2 Input - HT01 bits/Partial JP ID
Entries 351296
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

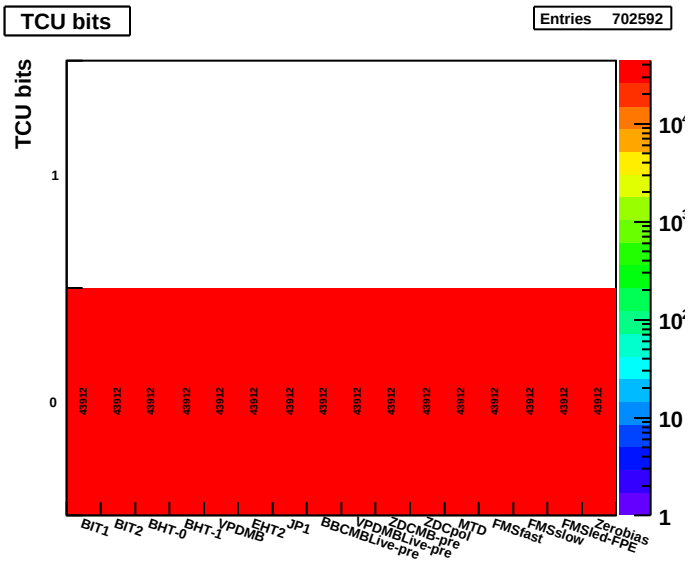

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

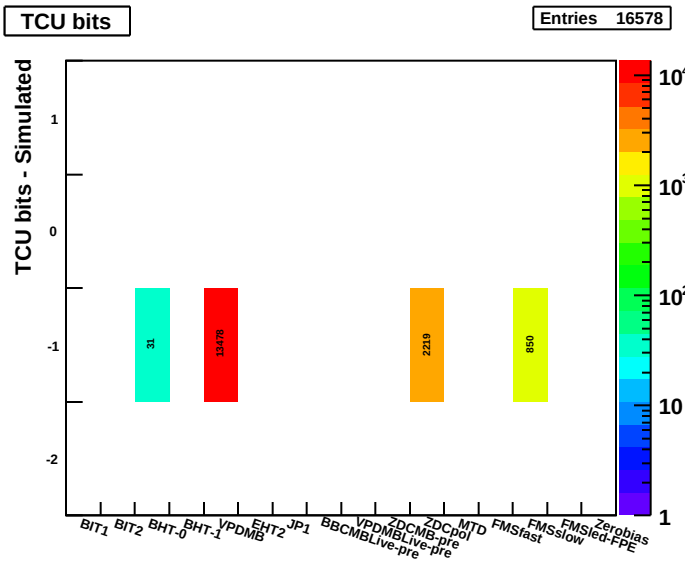

EMC L2 Input - HT23 bits
Entries 351296
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

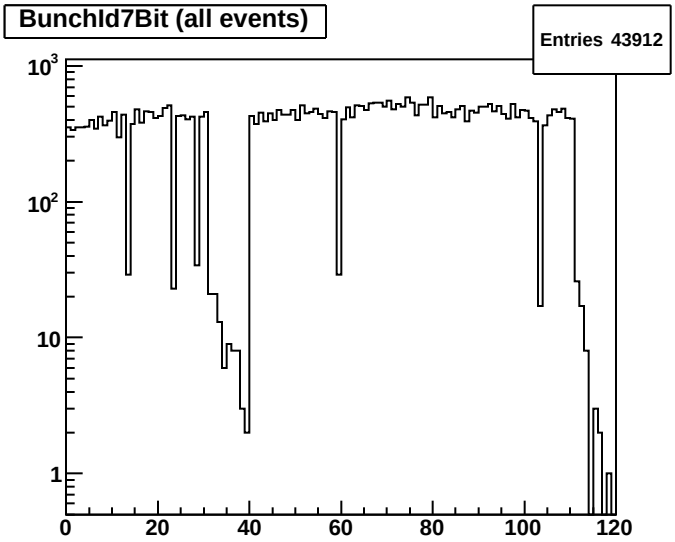

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

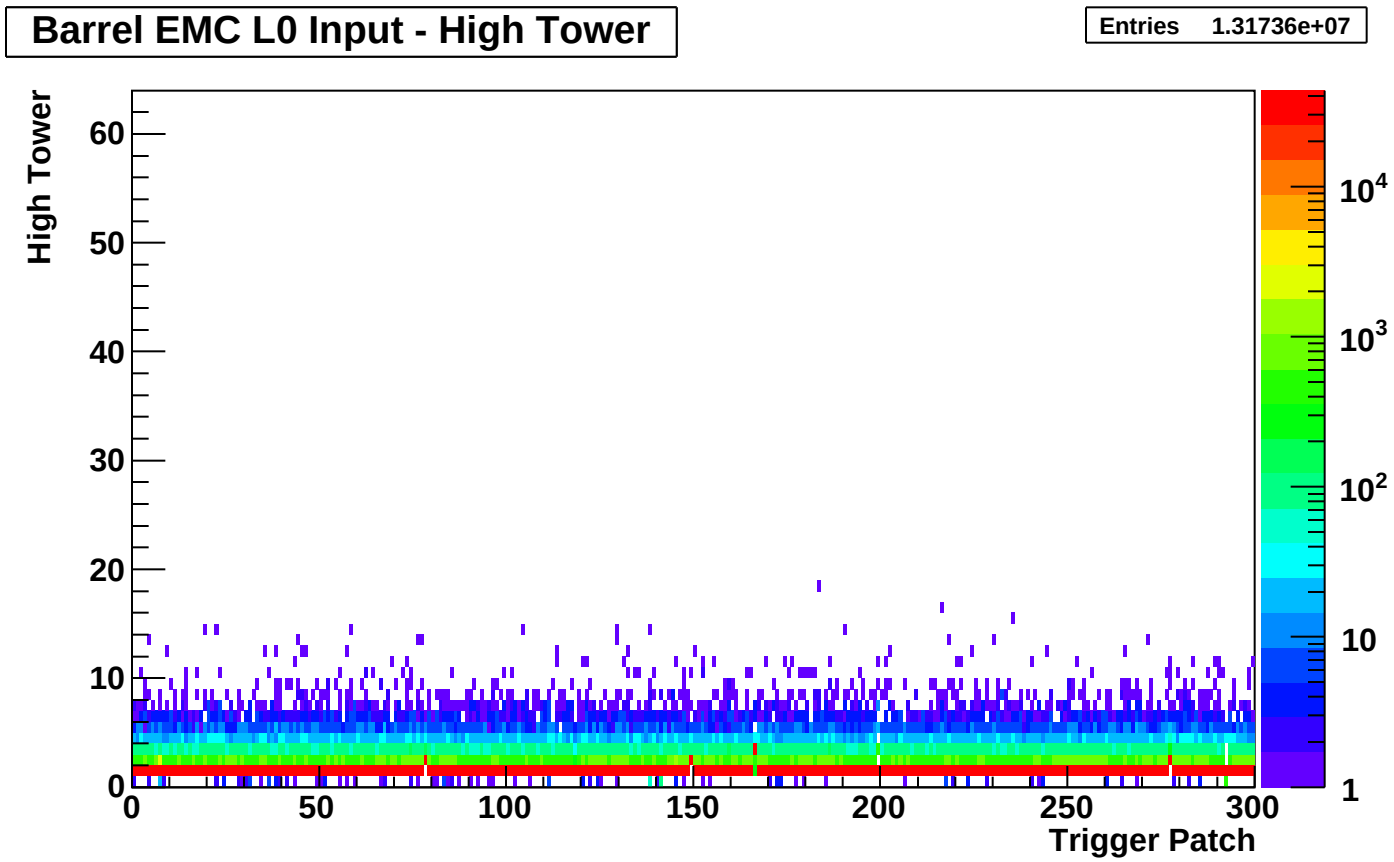

Last DSM Ch3 Input
Entries 702592
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

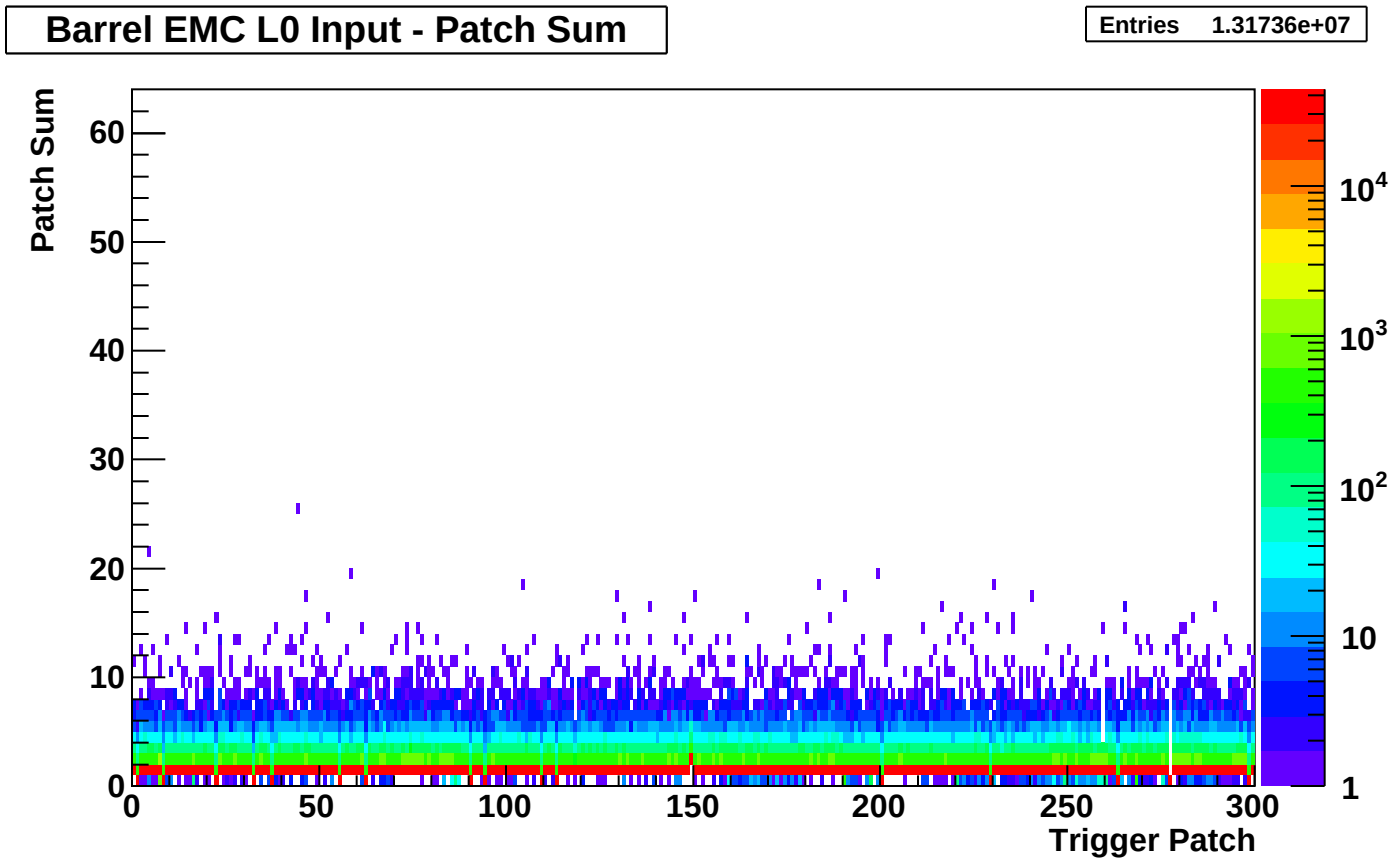

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

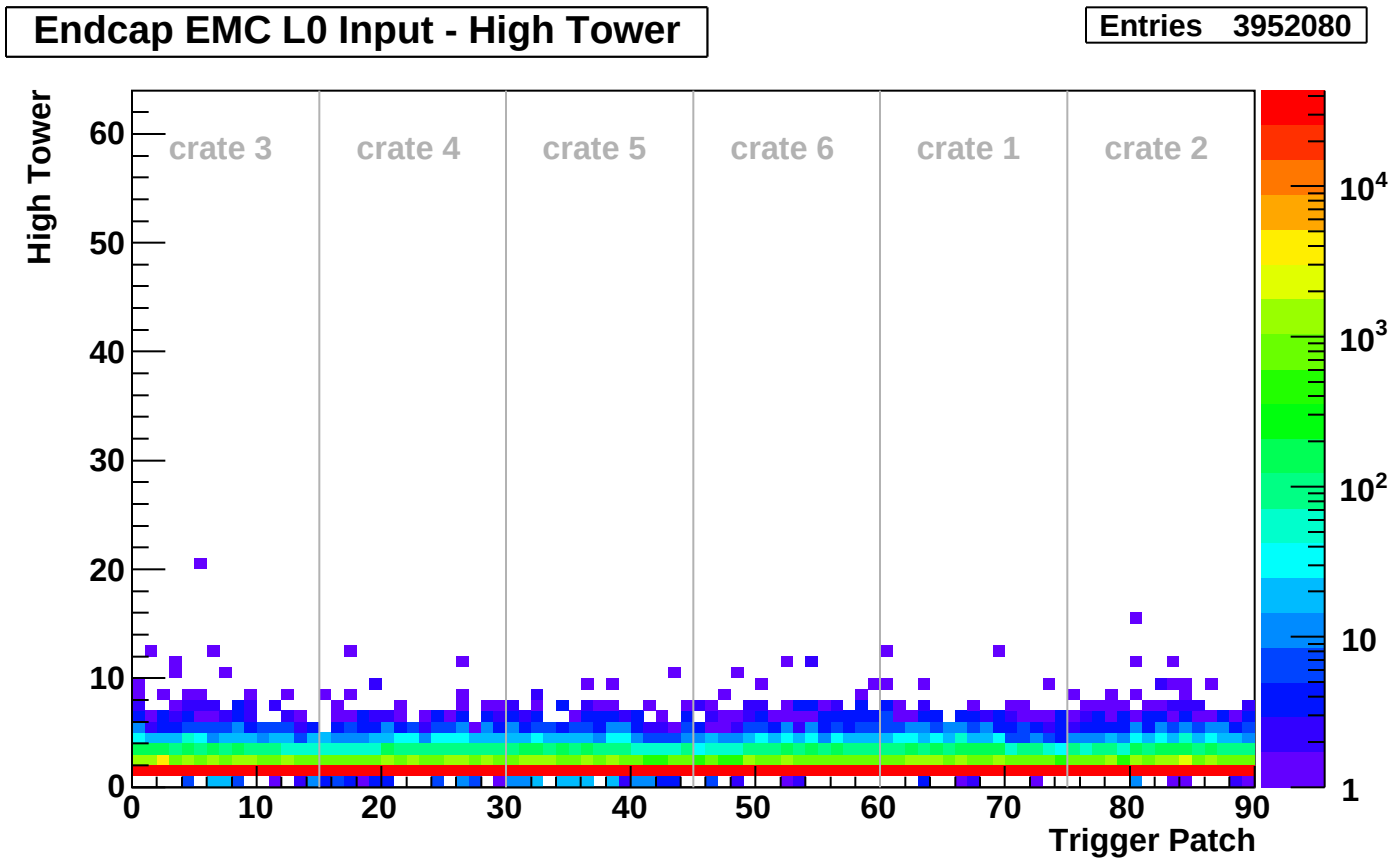

TCU bits
Entries 702592
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

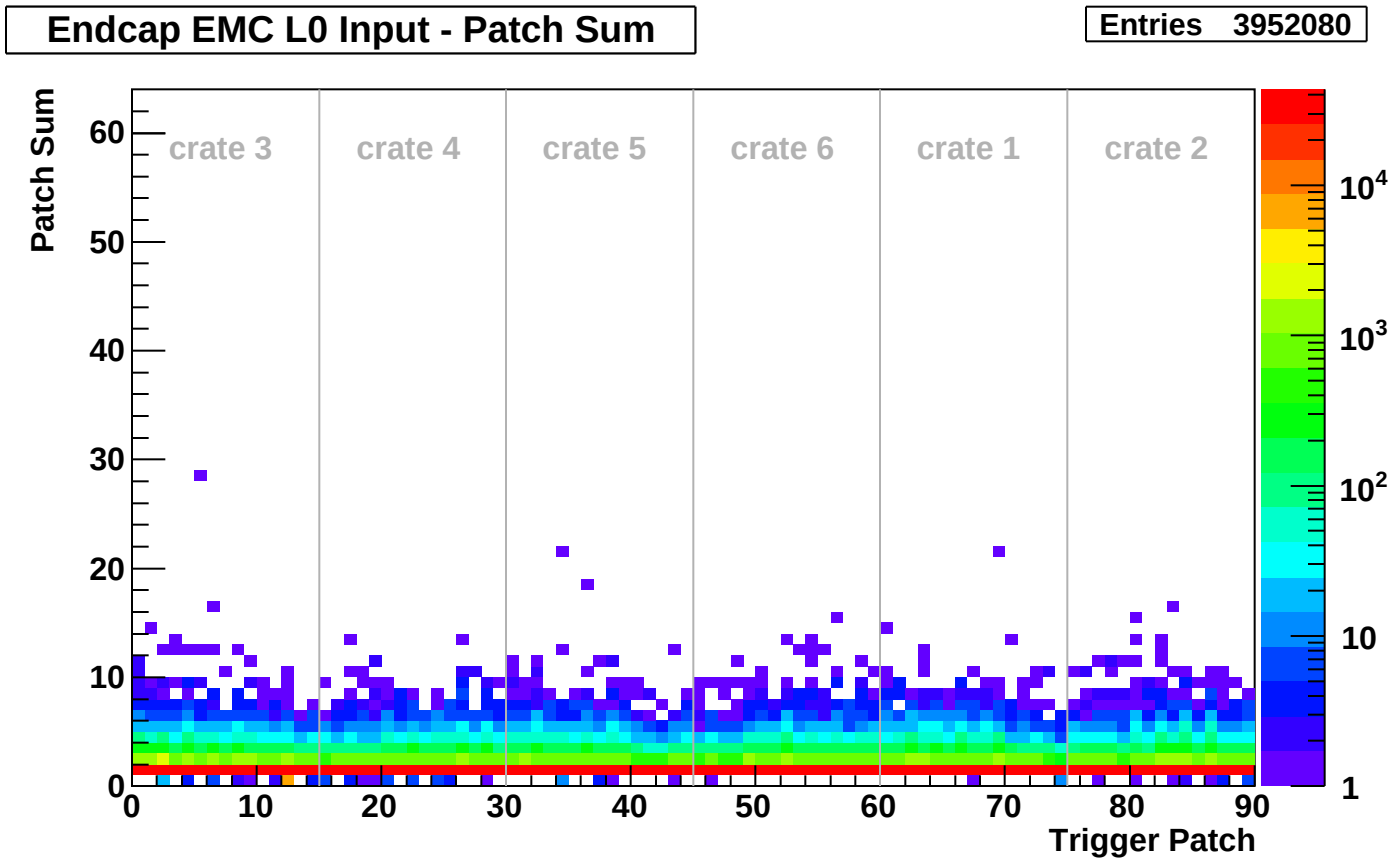

TCU bits
Entries 16578
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

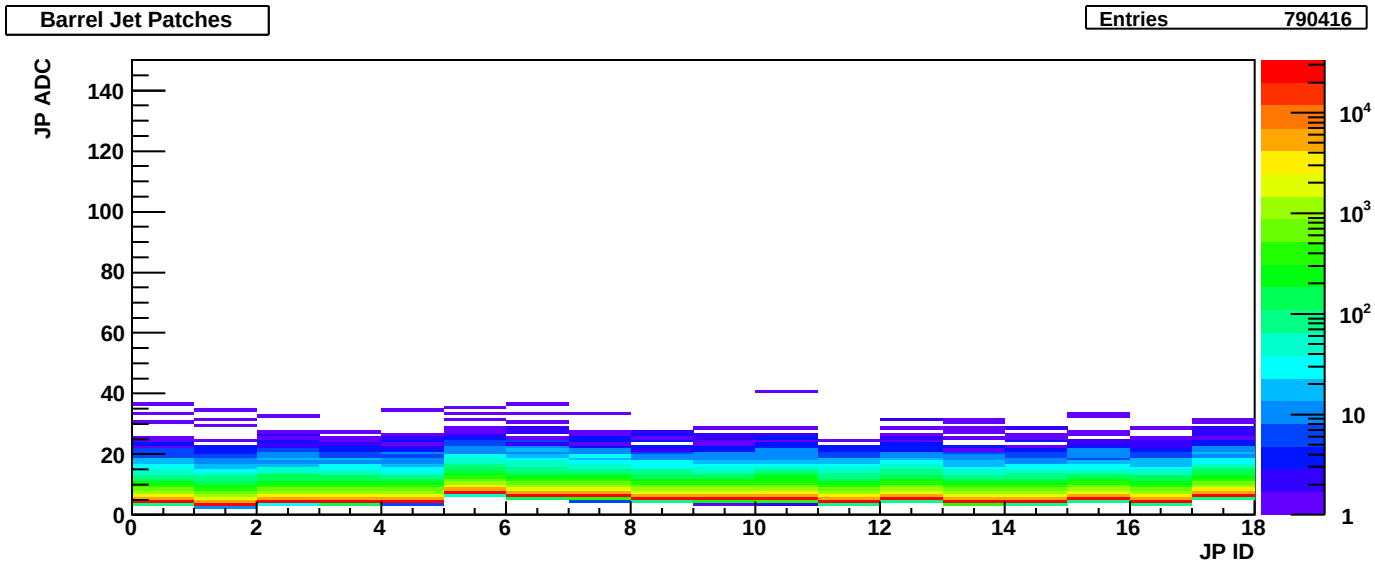

BunchId7Bit (all events)
Entries 43912

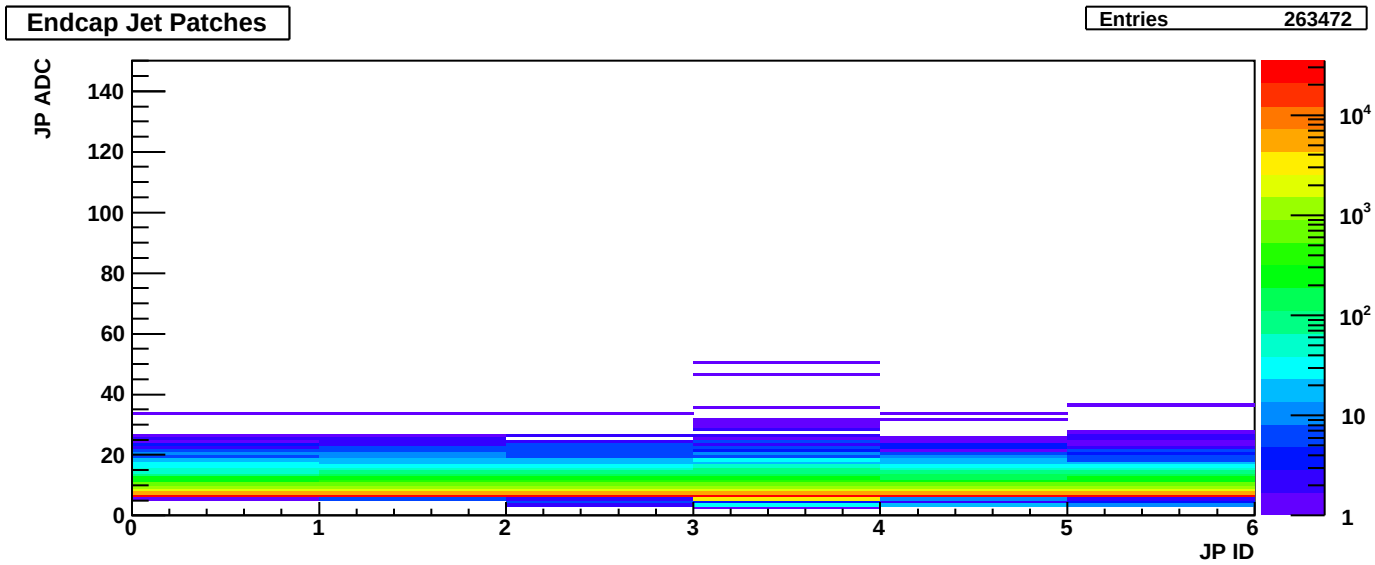

Barrel EMC L0 Input - High Tower
Entries 1.31736e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

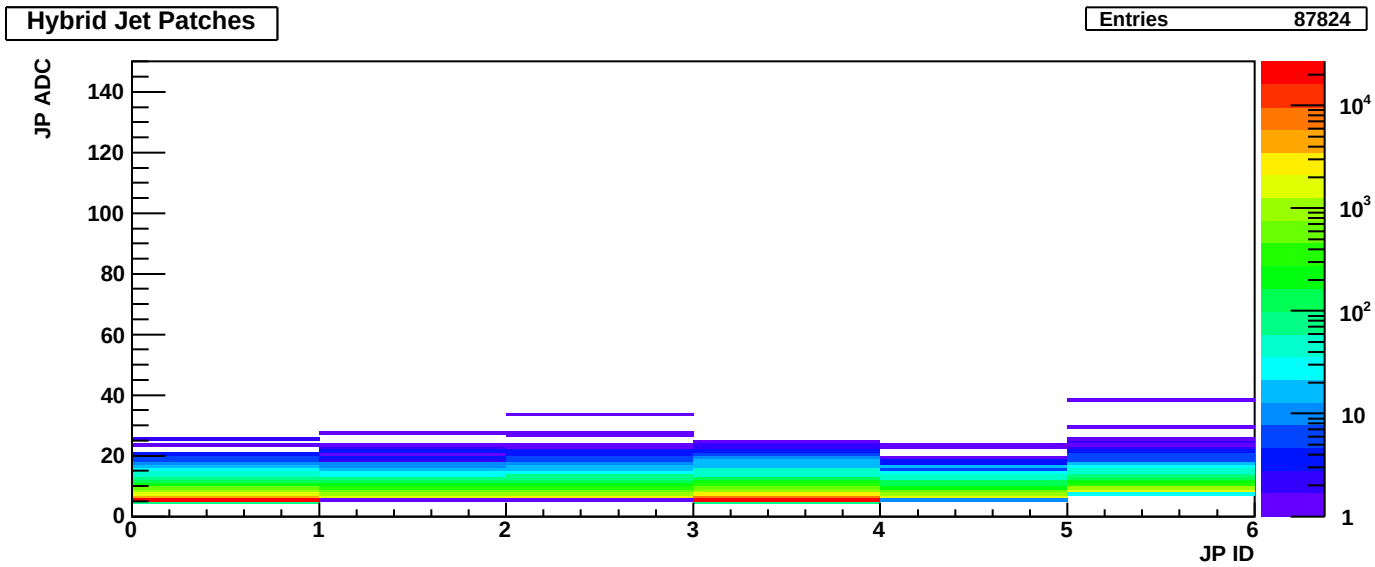

Barrel EMC L0 Input - Patch Sum
Entries 1.31736e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

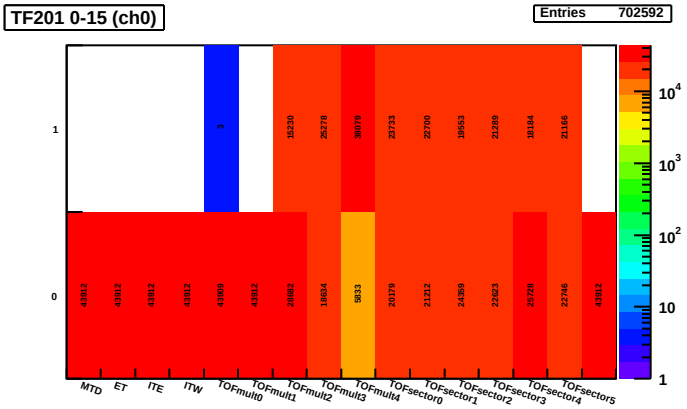

Endcap EMC L0 Input - High Tower
Entries 3952080
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

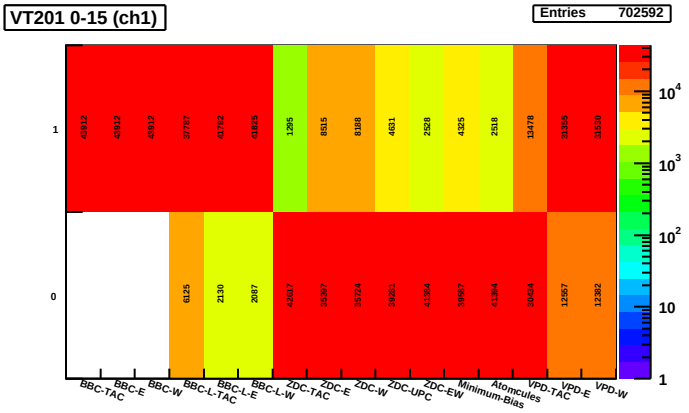

Endcap EMC L0 Input - Patch Sum
Entries 3952080
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

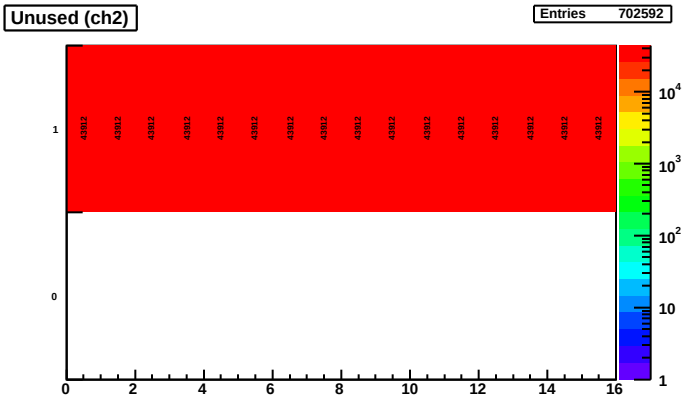

Barrel Jet Patches
Entries 790416
JP ADC
JP ID

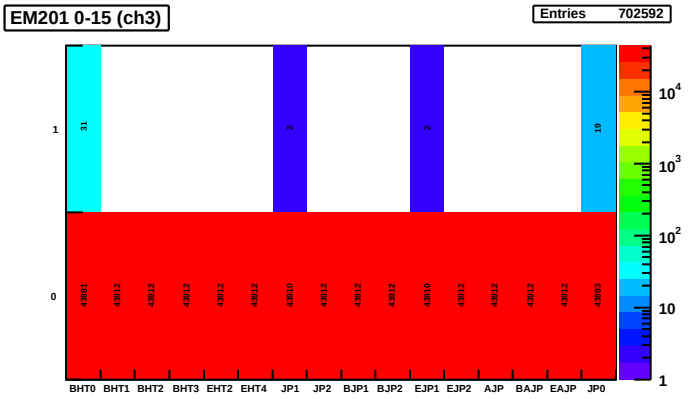

Endcap Jet Patches
Entries 263472
JP ADC
JP ID

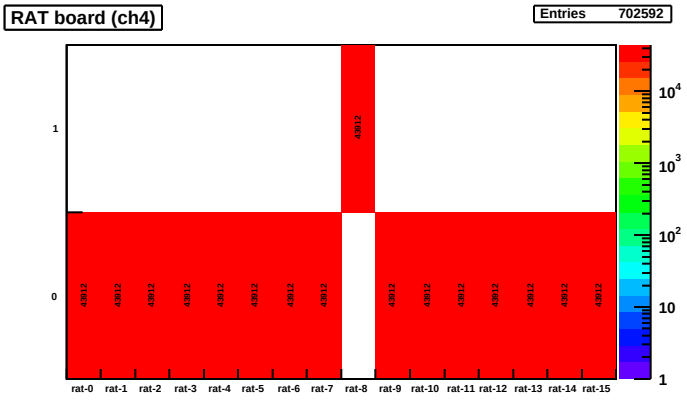

Hybrid Jet Patches
Entries 87824
JP ADC
JP ID

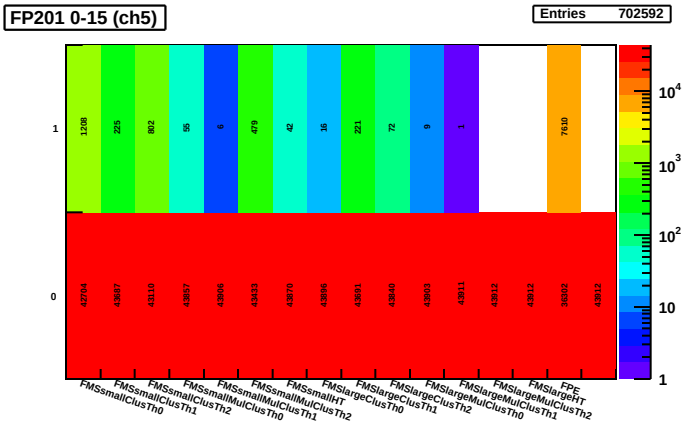

TF201 0-15 (ch0)
Entries 702592
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

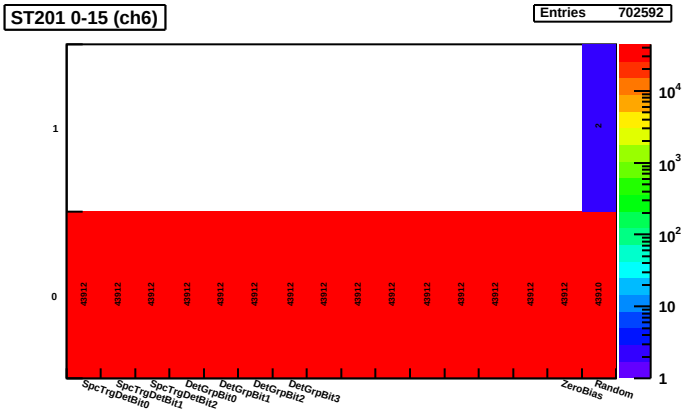

VT201 0-15 (ch1)
Entries 702592
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

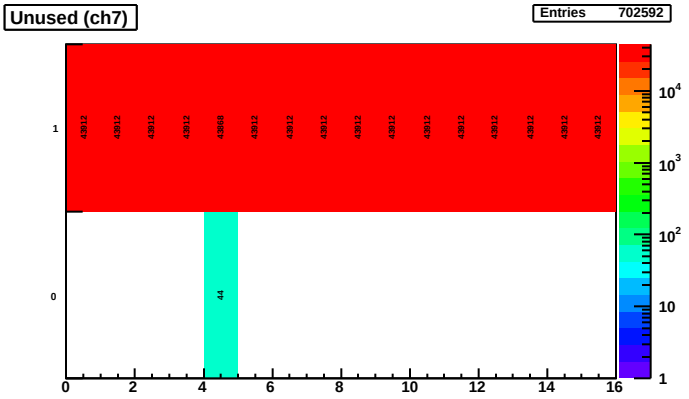

Unused (ch2)
Entries 702592

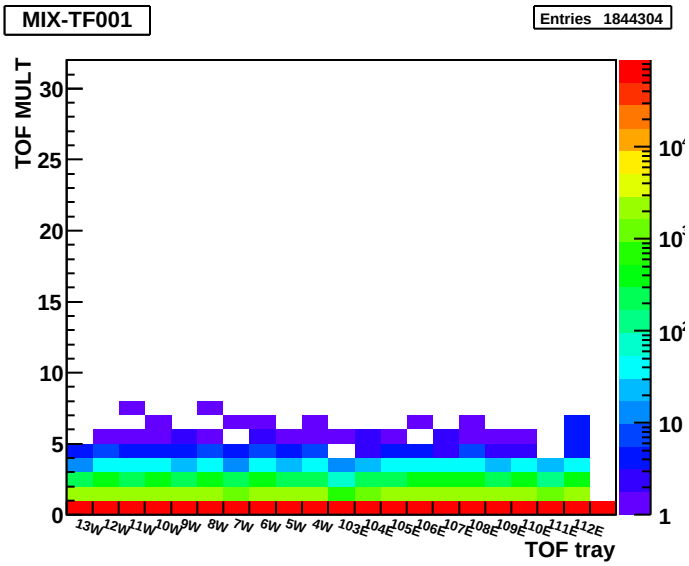

EM201 0-15 (ch3)
Entries 702592
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

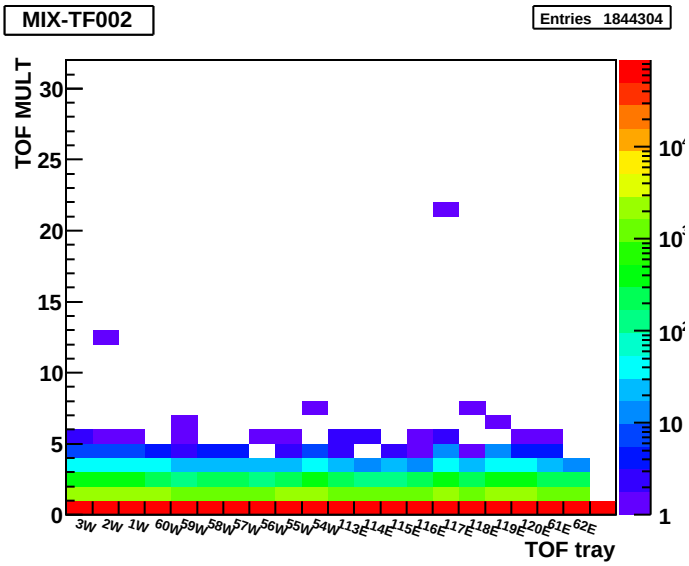

RAT board (ch4)
Entries 702592
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

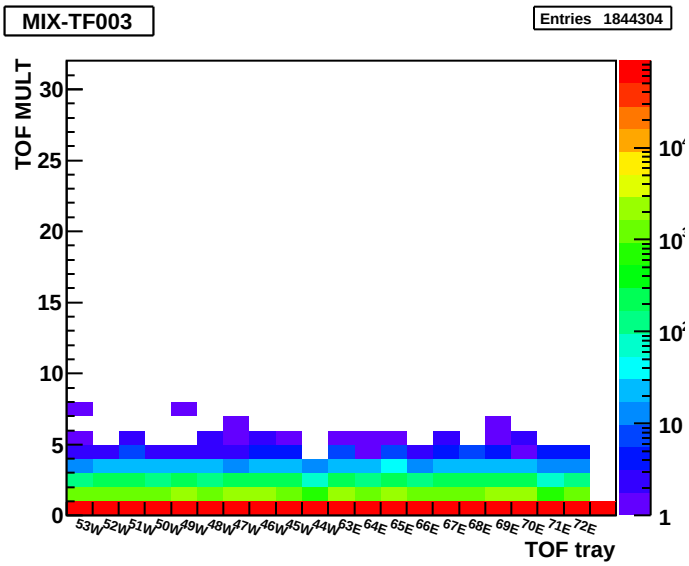

FP201 0-15 (ch5)
Entries 702592
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

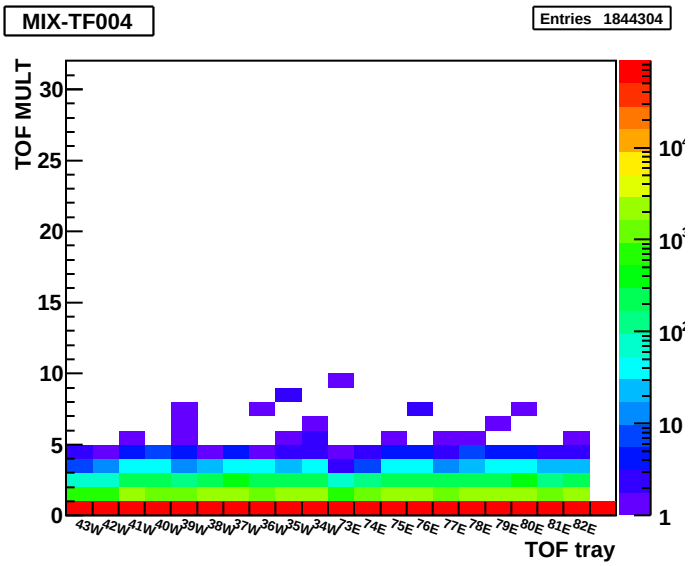

ST201 0-15 (ch6)
Entries 702592
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

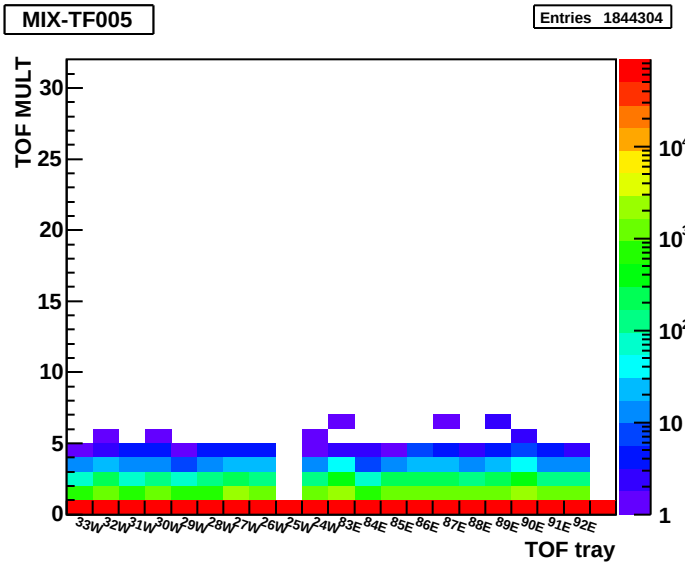

Unused (ch7)
Entries 702592

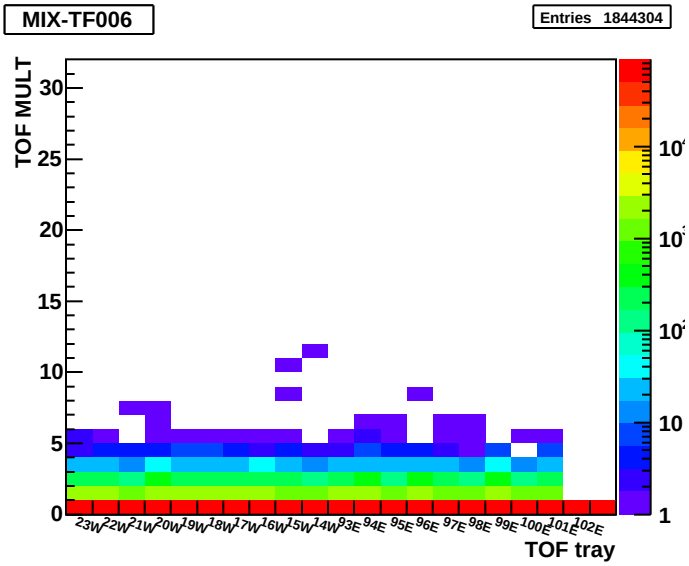

MIX-TF001
Entries 1844304
TOF MULT
TOF tray

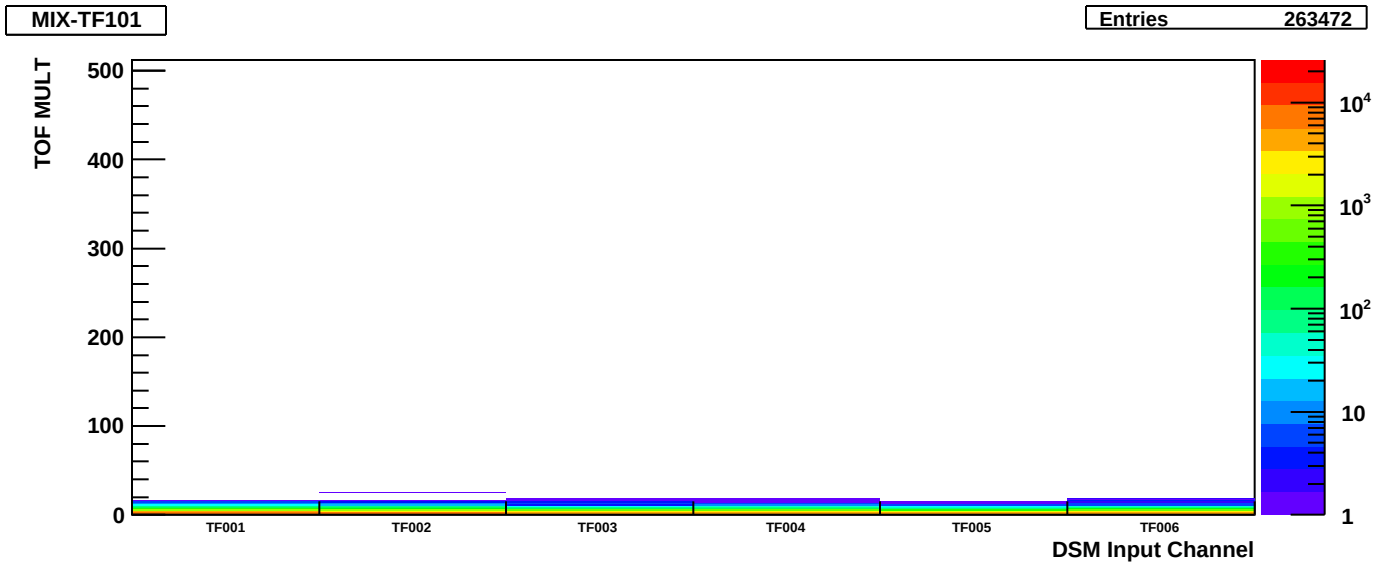

MIX-TF002
Entries 1844304
TOF MULT
TOF tray

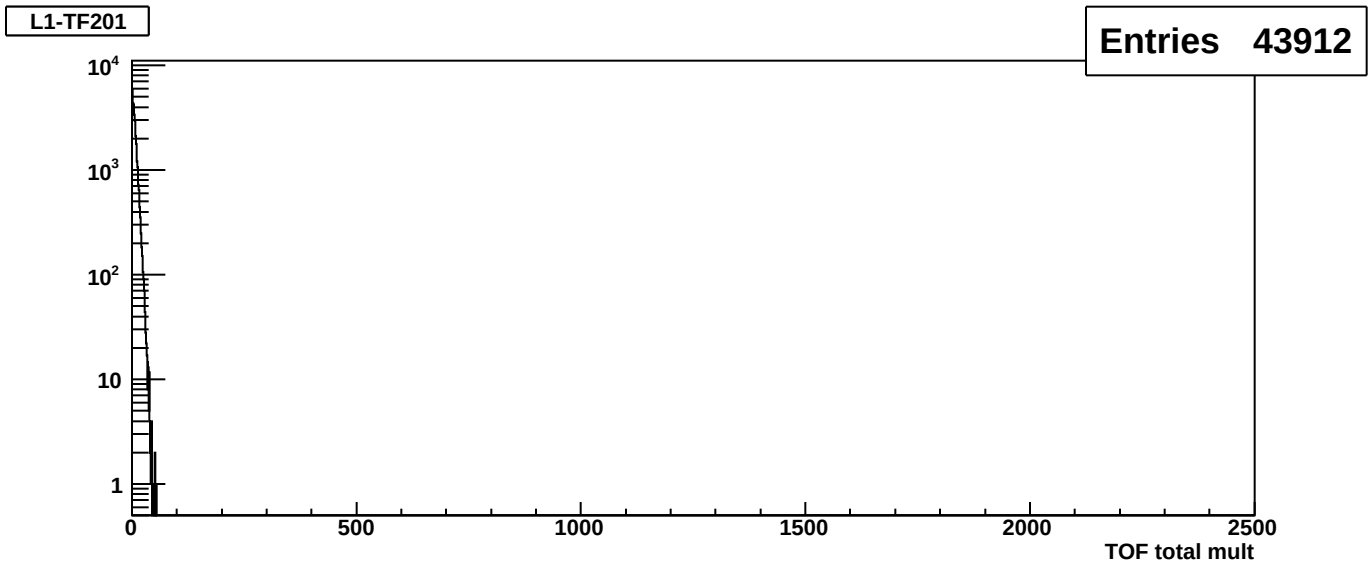

MIX-TF003
Entries 1844304
TOF MULT
TOF tray

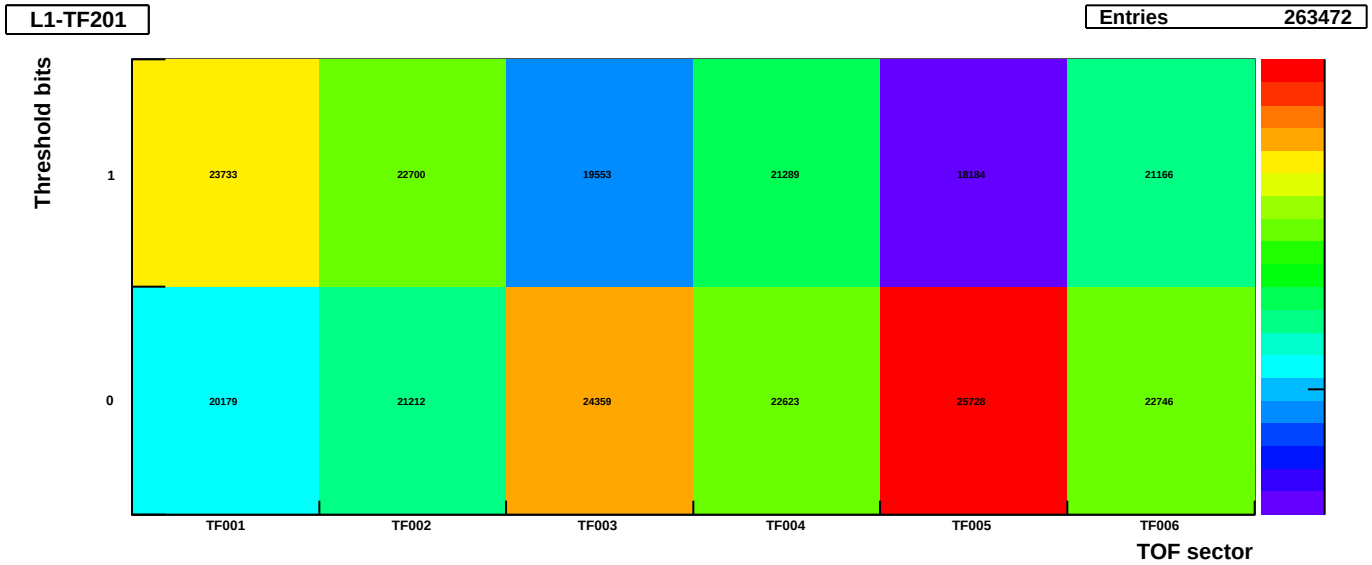

MIX-TF004
Entries 1844304
TOF MULT
TOF tray

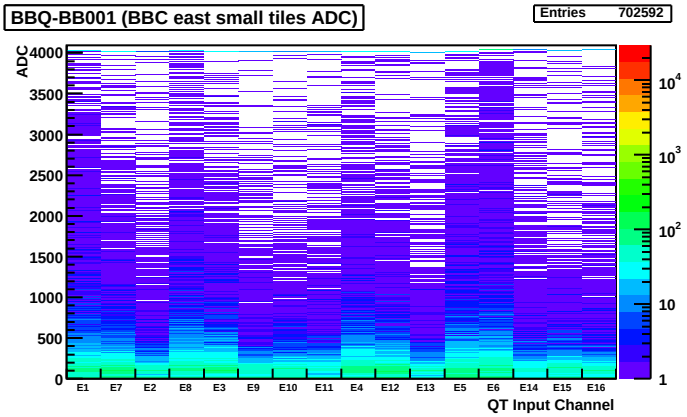

MIX-TF005
Entries 1844304
TOF MULT
TOF tray

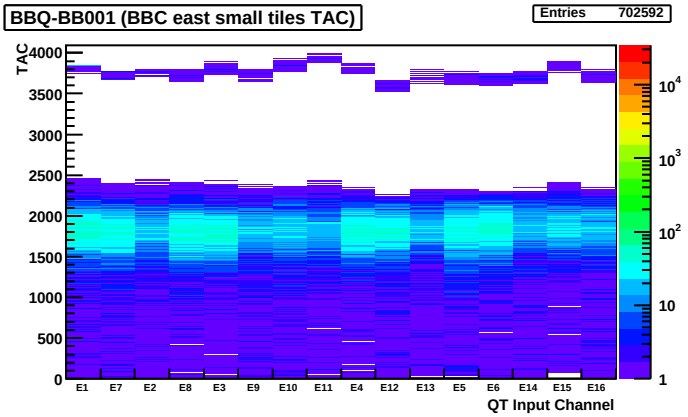

MIX-TF006
Entries 1844304
TOF MULT
TOF tray

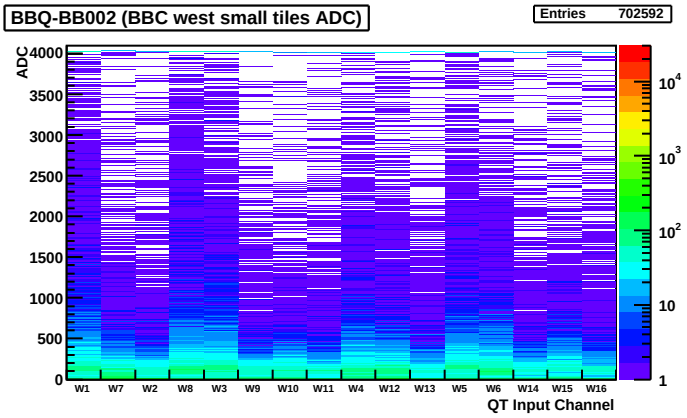

MIX-TF101
Entries 263472
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

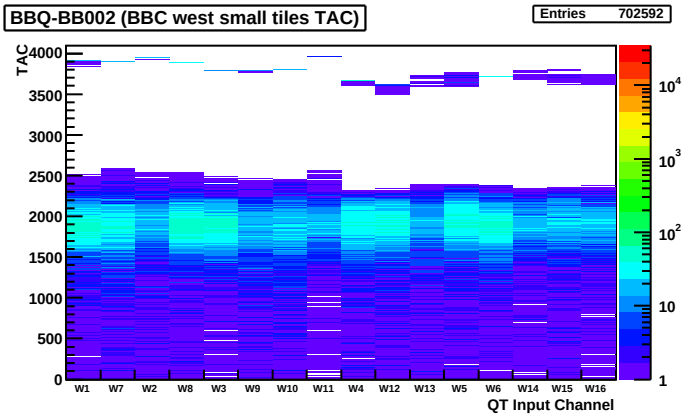

L1-TF201
Entries 43912
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

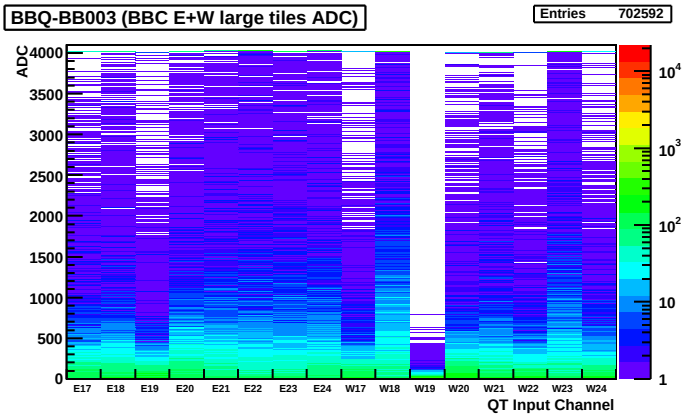

L1-TF201
Entries 263472
Threshold bits
1
0
23733
22700
19553
21289
18184
21166
20179
21212
24359
22623
25728
22746
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

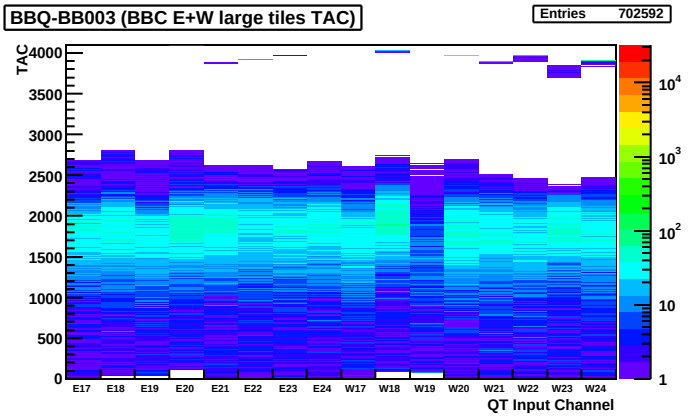

BBQ-BB001 (BBC east small tiles ADC)
Entries 702592
ADC
QT Input Channel

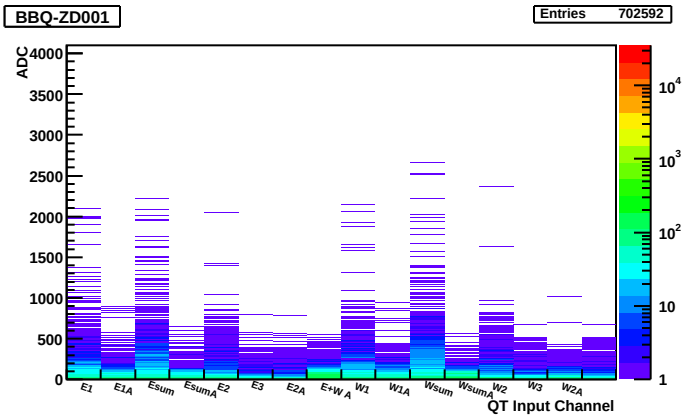

BBQ-BB001 (BBC east small tiles TAC)
Entries 702592
TAC
QT Input Channel

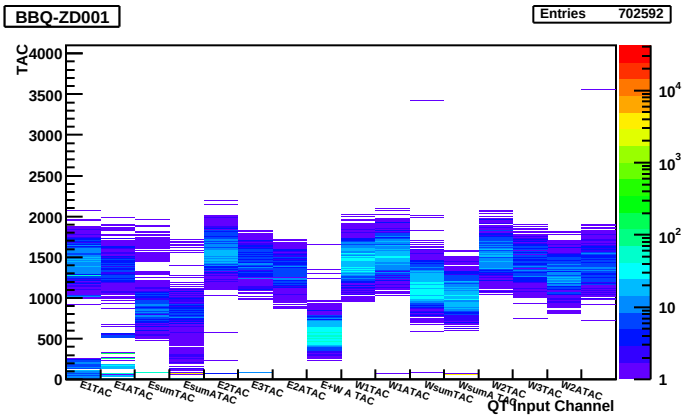

BBQ-BB002 (BBC west small tiles ADC)
Entries 702592
ADC
QT Input Channel

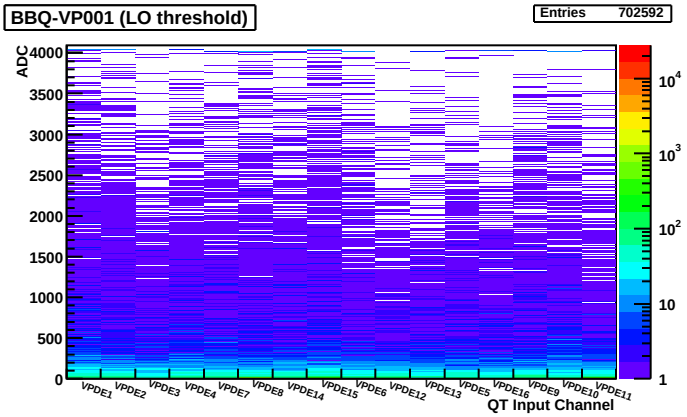

BBQ-BB002 (BBC west small tiles TAC)
Entries 702592
TAC
QT Input Channel

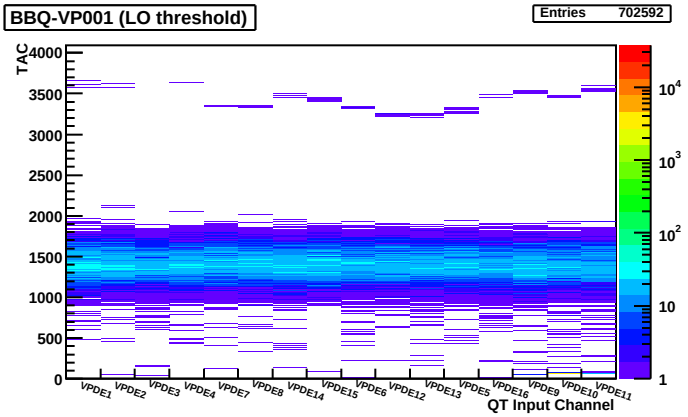

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 702592
ADC
QT Input Channel

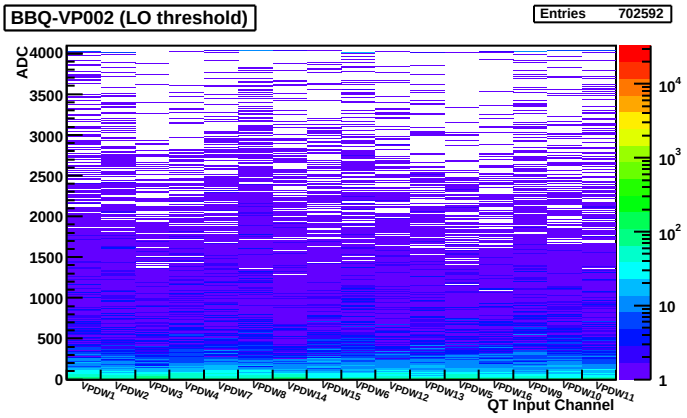

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 702592
TAC
QT Input Channel

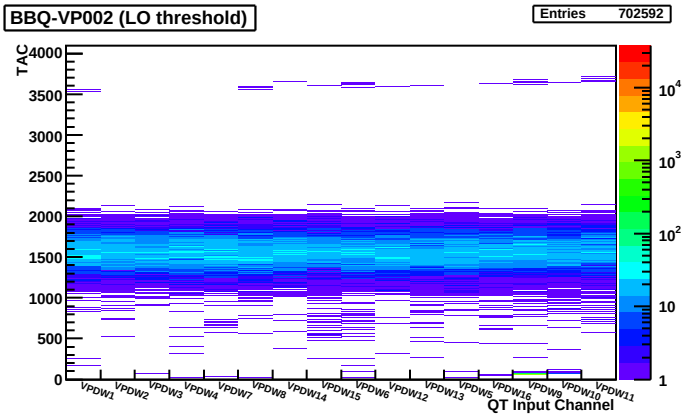

BBQ-ZD001
Entries 702592
ADC
QT Input Channel

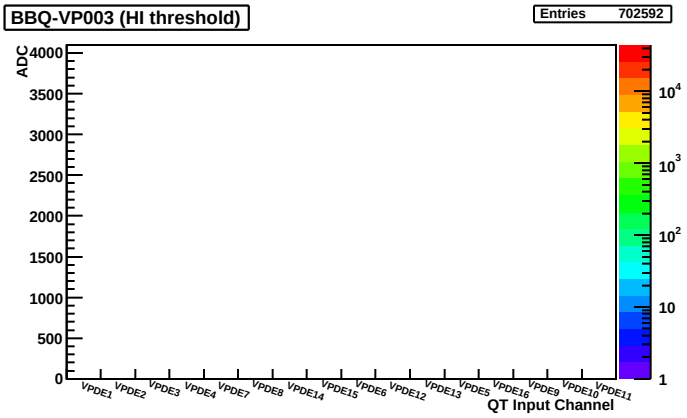

BBQ-ZD001
Entries 702592
TAC
QT Input Channel

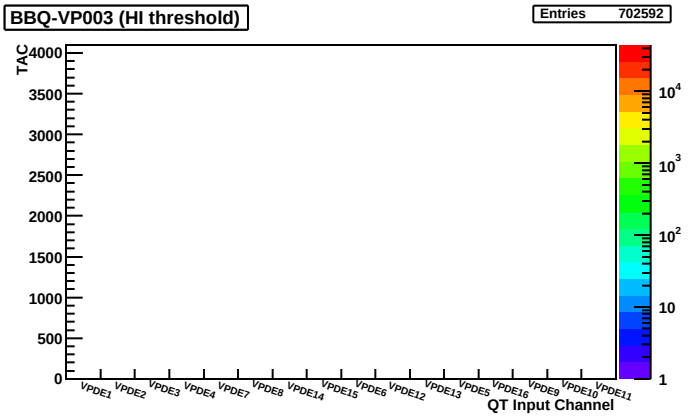

BBQ-VP001 (LO threshold)
Entries 702592
ADC
QT Input Channel

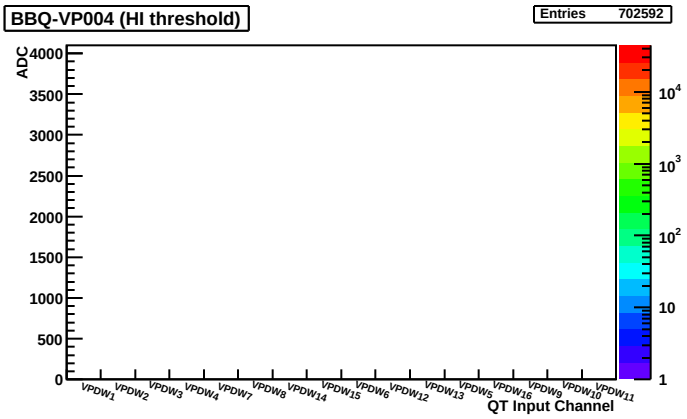

BBQ-VP001 (LO threshold)
Entries 702592
TAC
QT Input Channel

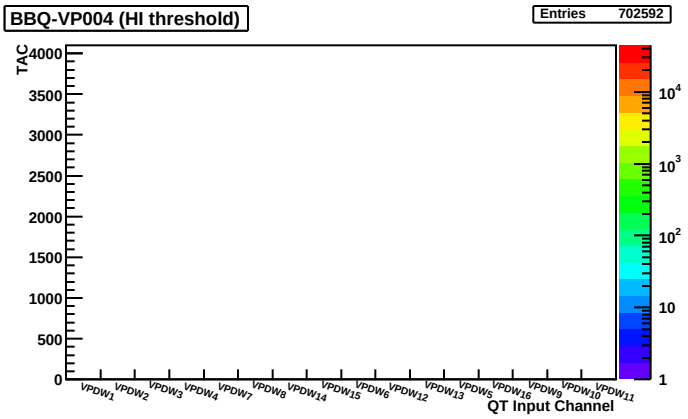

BBQ-VP002 (LO threshold)
Entries 702592
ADC
QT Input Channel

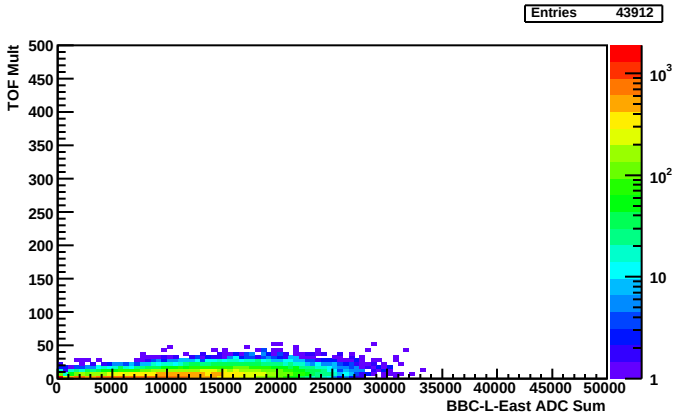

BBQ-VP002 (LO threshold)
Entries 702592
TAC
QT Input Channel

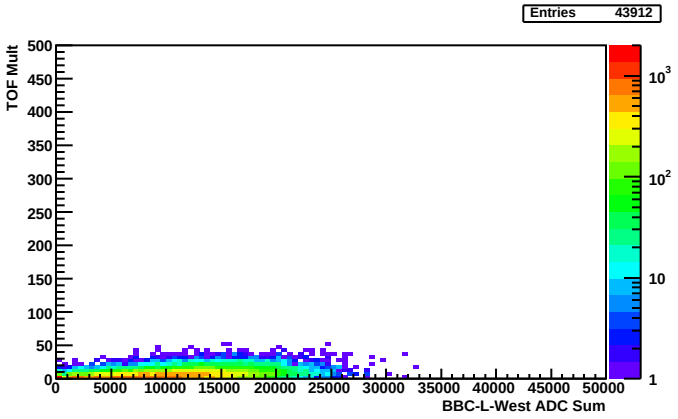

BBQ-VP003 (HI threshold)
Entries 702592
ADC
QT Input Channel

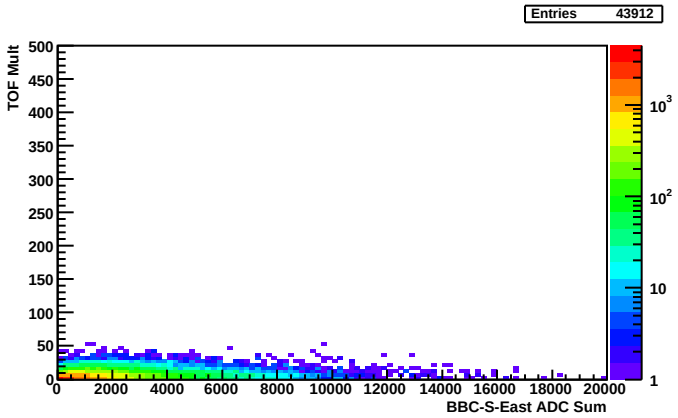

BBQ-VP003 (HI threshold)
Entries 702592
TAC
QT Input Channel

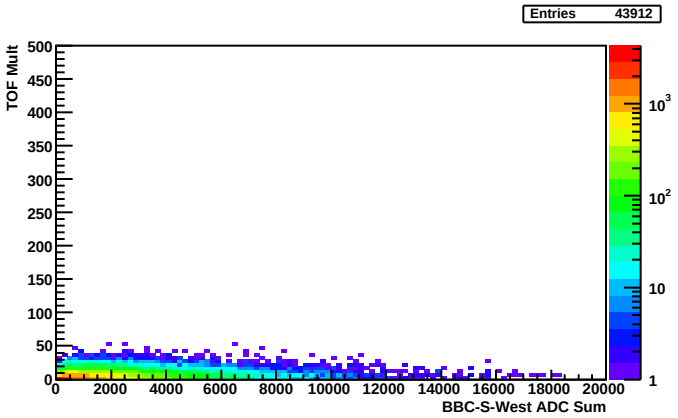

BBQ-VP004 (HI threshold)
Entries 702592
ADC
QT Input Channel

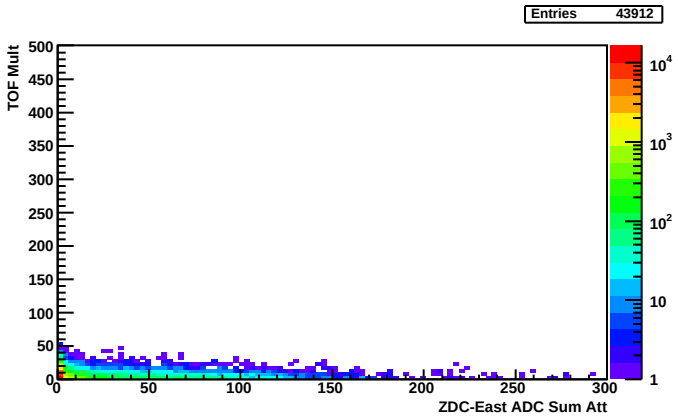

BBQ-VP004 (HI threshold)
Entries 702592
TAC
QT Input Channel

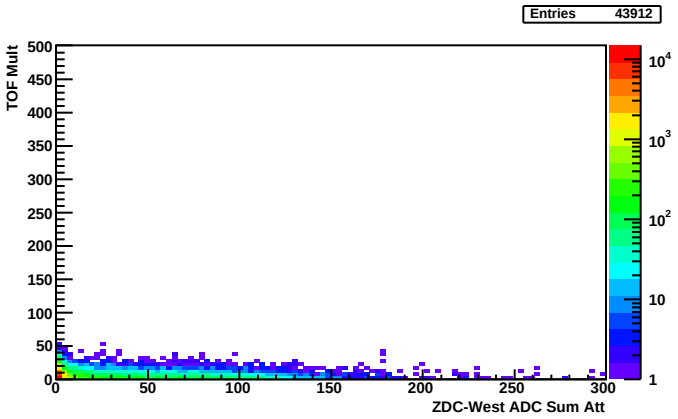

Entries 43912
TOF Mult
BBC-L-East ADC Sum

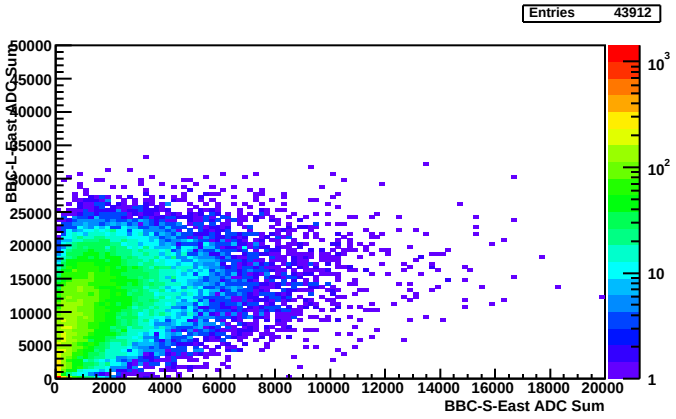

Entries 43912
TOF Mult
BBC-L-West ADC Sum

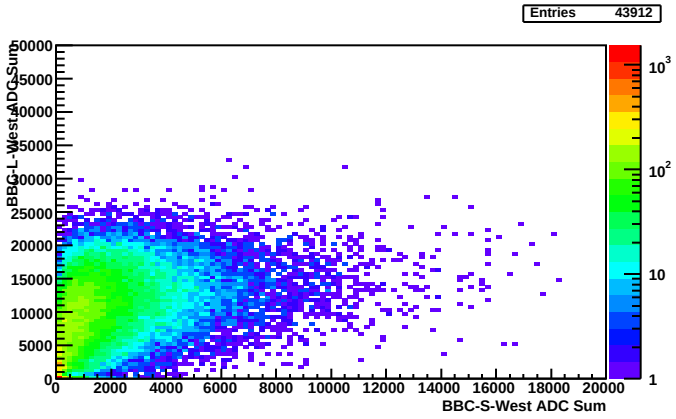

Entries 43912
TOF Mult
BBC-S-East ADC Sum

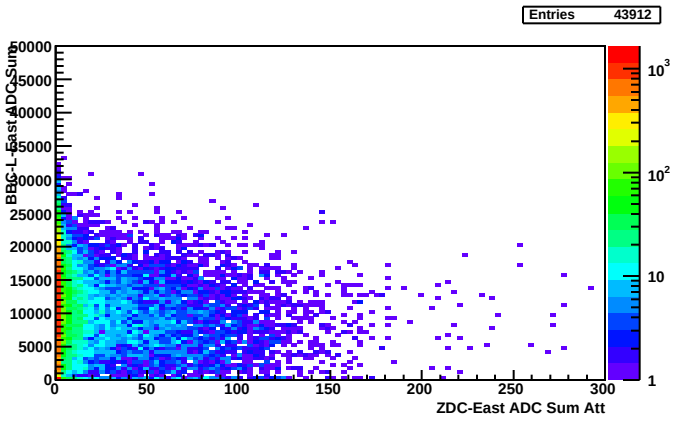

Entries 43912
TOF Mult
BBC-S-West ADC Sum

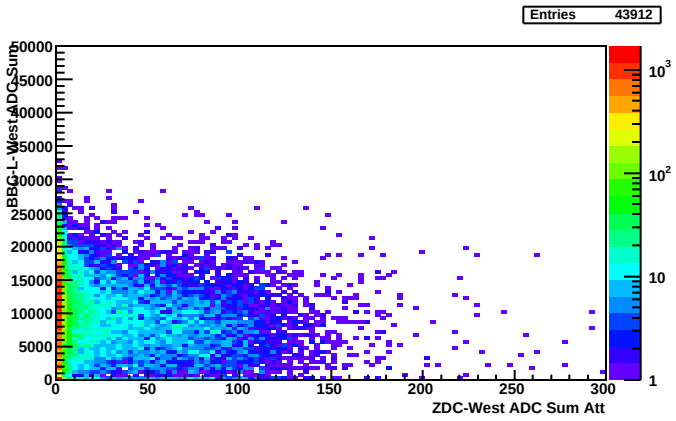

Entries 43912
TOF Mult
ZDC-East ADC Sum Att

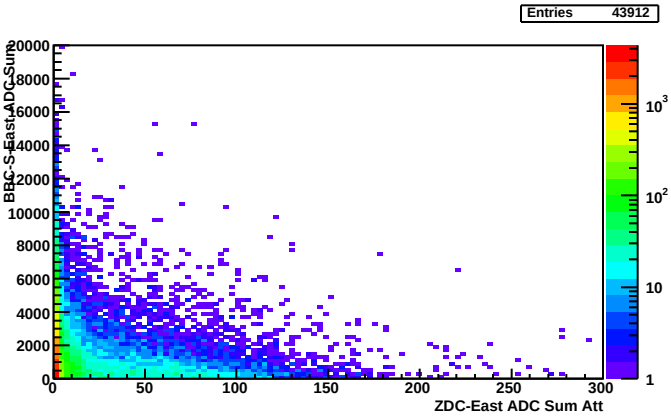

Entries 43912
TOF Mult
ZDC-West ADC Sum Att

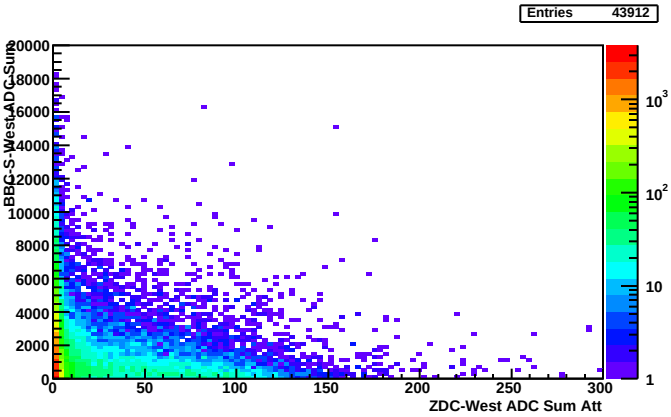

Entries 43912
BBC-L-East ADC Sum
BBC-S-East ADC Sum

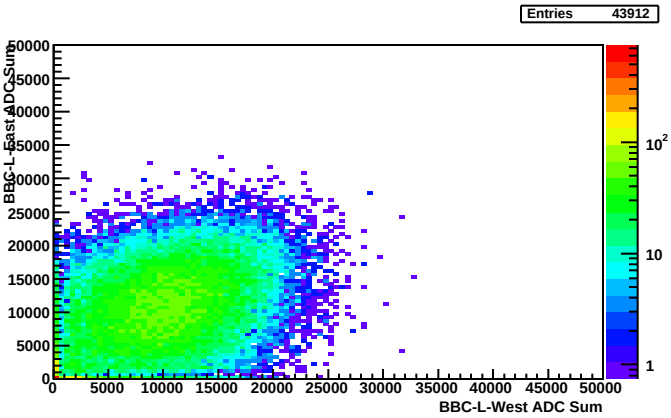

Entries 43912
BBC-L-West ADC Sum
BBC-S-West ADC Sum

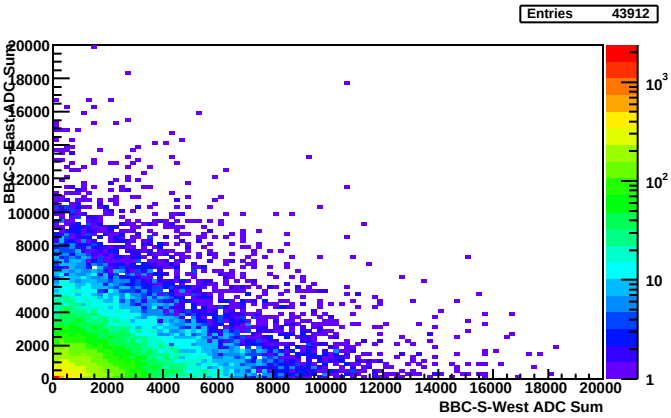

Entries 43912
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

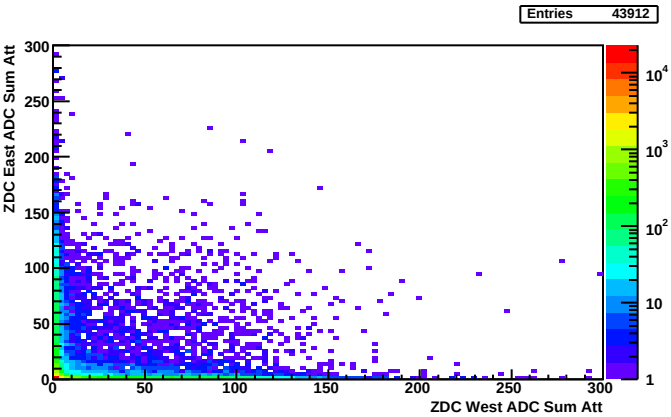

Entries 43912
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

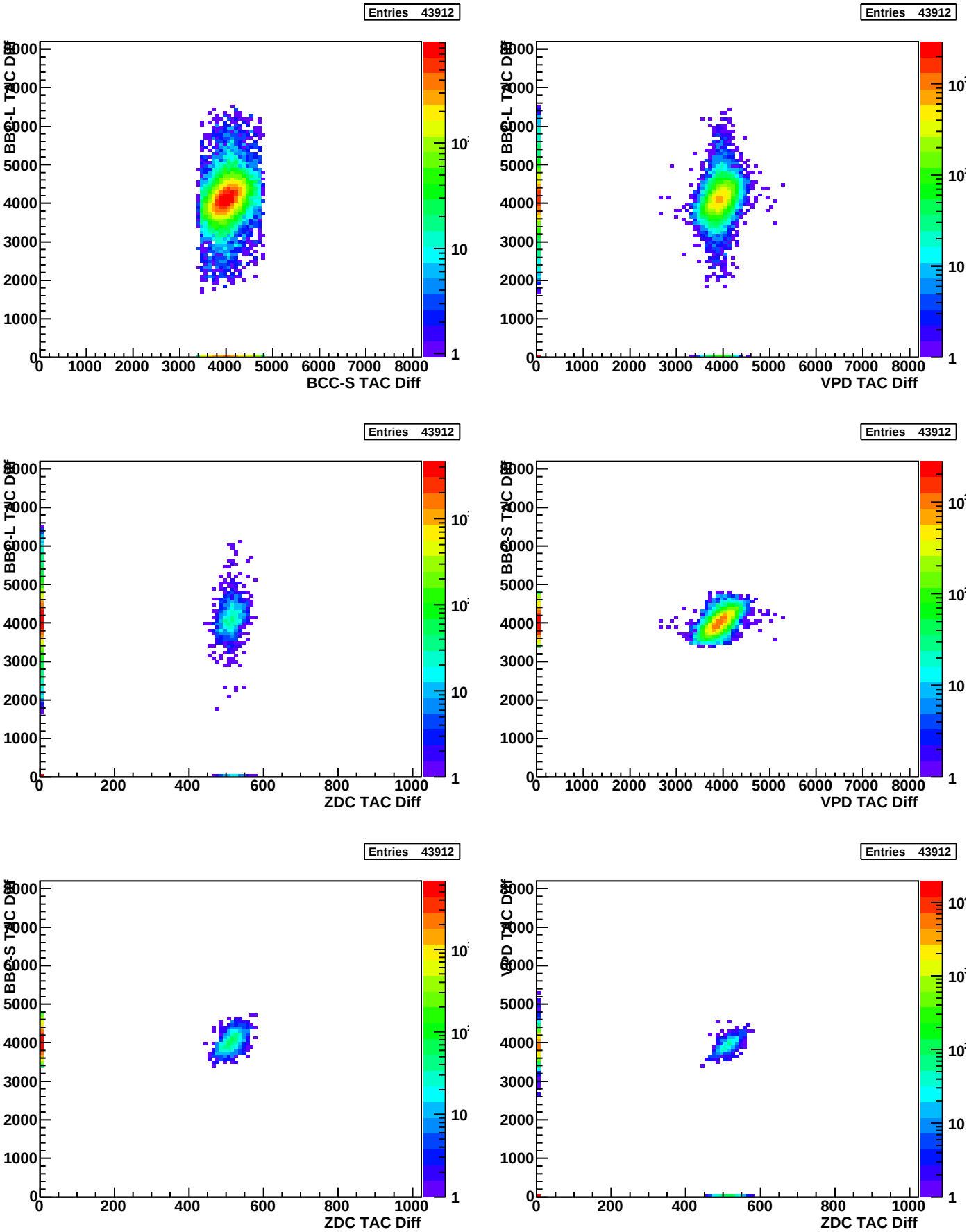

Entries 43912
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

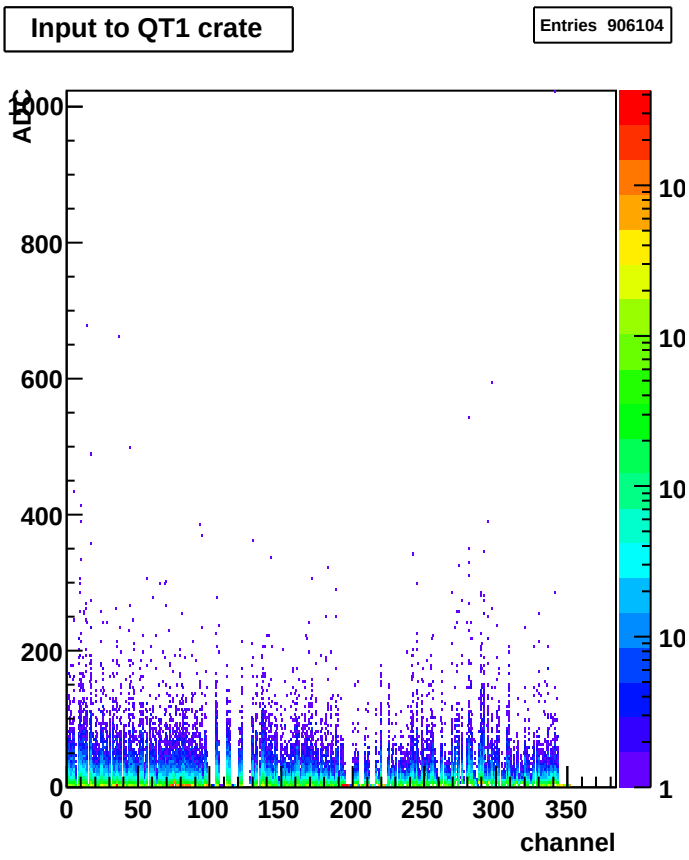

Entries 43912
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

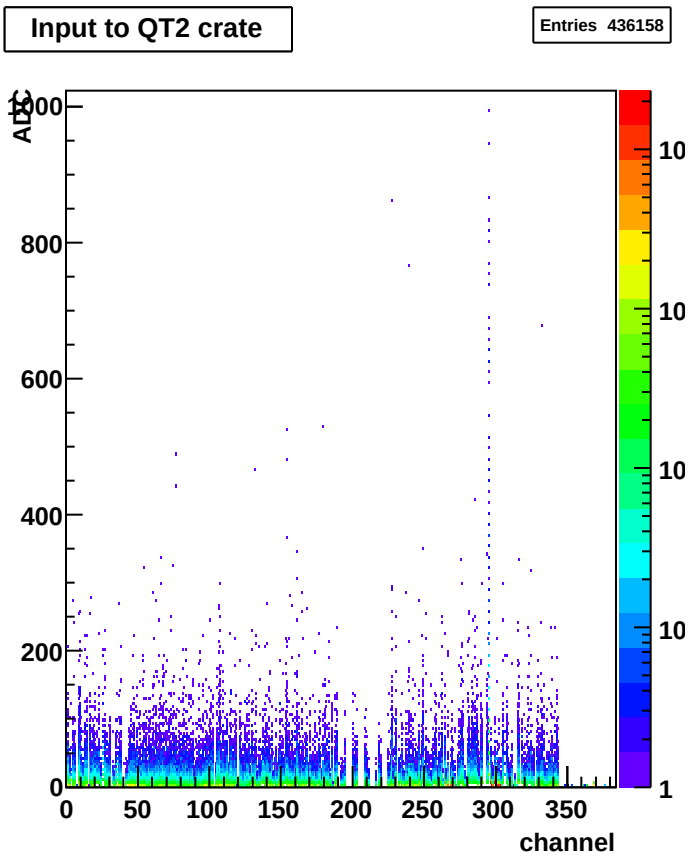

Entries 43912
BBC-L-East ADC Sum
BBC-L-West ADC Sum

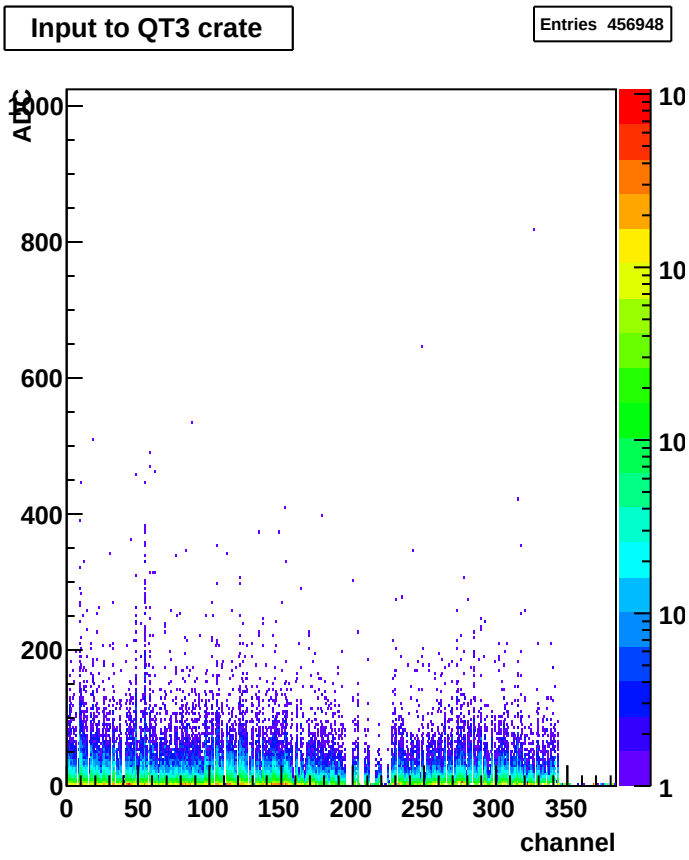

Entries 43912
BBC-S-East ADC Sum
BBC-S-West ADC Sum

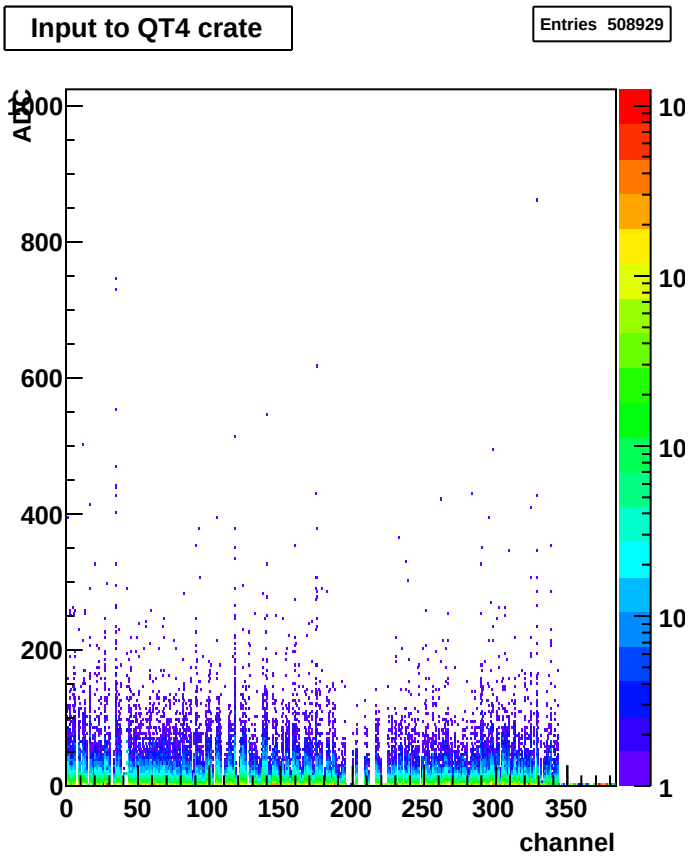

Entries 43912
ZDC East ADC Sum Att
ZDC West ADC Sum Att

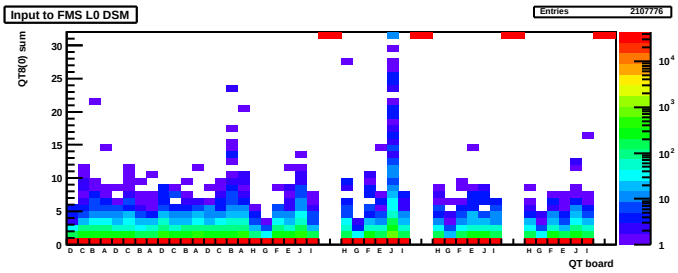

Entries 43912
BBC-L TAC Diff
BCC-S TAC Diff
Entries 43912
BBC-L TAC Diff
VPD TAC Diff
Entries 43912
BBC-L TAC Diff
ZDC TAC Diff
Entries 43912
BBC-S TAC Diff
VPD TAC Diff
Entries 43912
BBC-S TAC Diff
ZDC TAC Diff
Entries 43912
VPD TAC Diff
ZDC TAC Diff

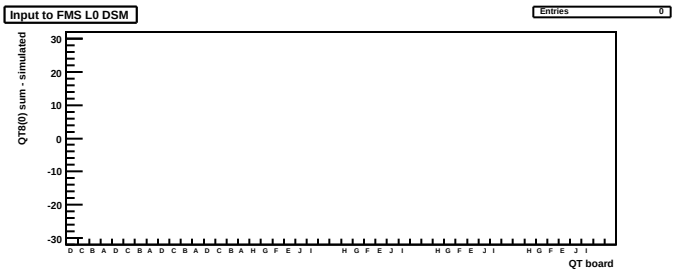

Input to QT1 crate
Entries 906104
ADC
channel

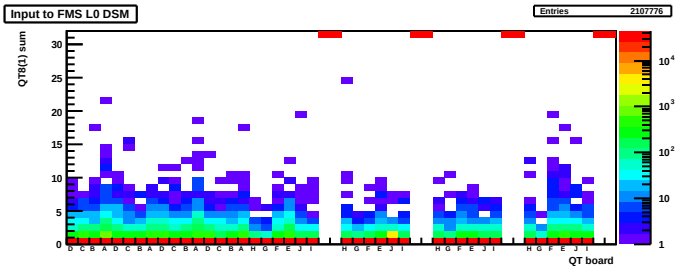

Input to QT2 crate
Entries 436158
ADC
channel

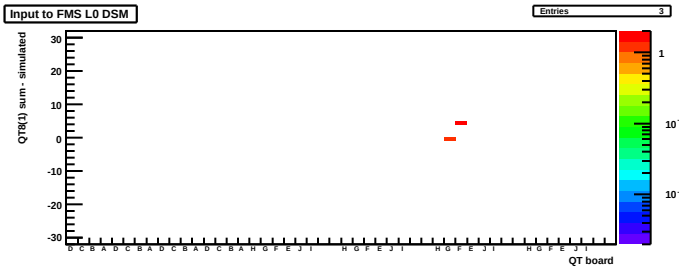

Input to QT3 crate
Entries 456948
ADC
channel

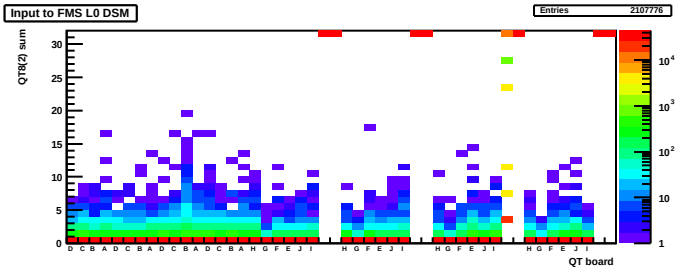

Input to QT4 crate
Entries 508929
ADC
channel

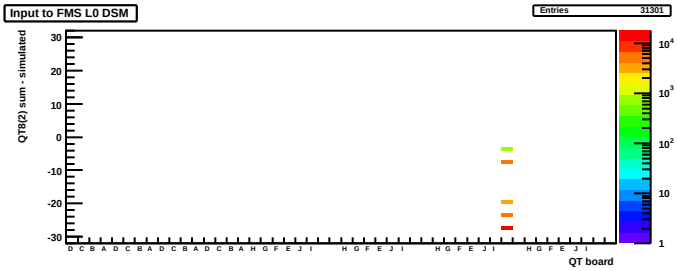

Input to FMS L0 DSM
Entries 2107776
QT8(0) sum
QT board

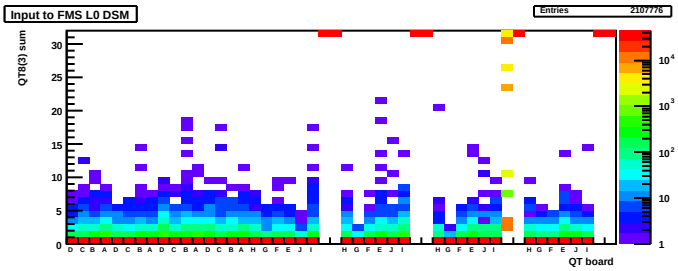

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

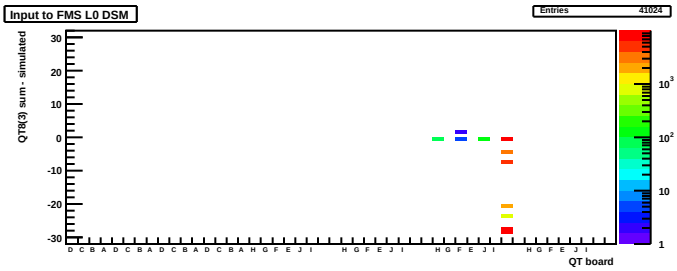

Input to FMS L0 DSM
Entries 2107776
QT8(1) sum
QT board

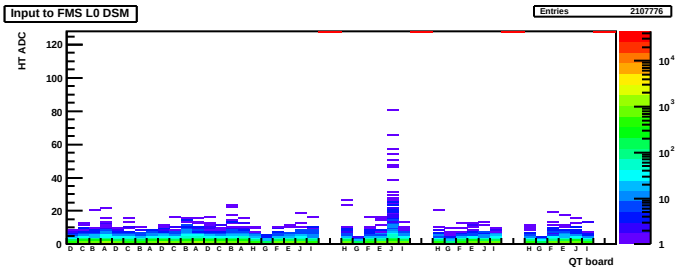

Input to FMS L0 DSM
Entries 3
QT8(1) sum - simulated
QT board

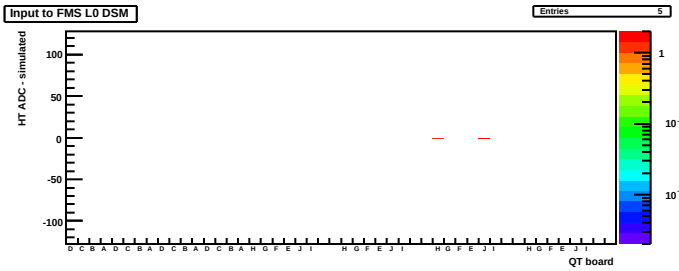

Input to FMS L0 DSM
Entries 2107776
QT8(2) sum
QT board

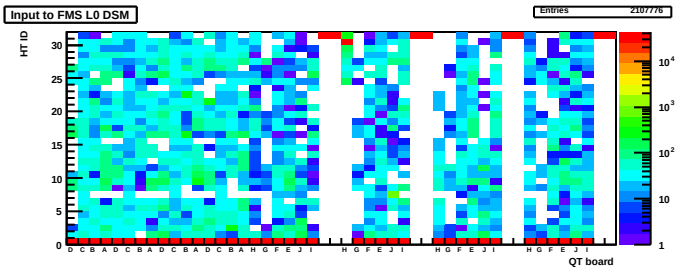

Input to FMS L0 DSM
Entries 31301
QT8(2) sum - simulated
QT board

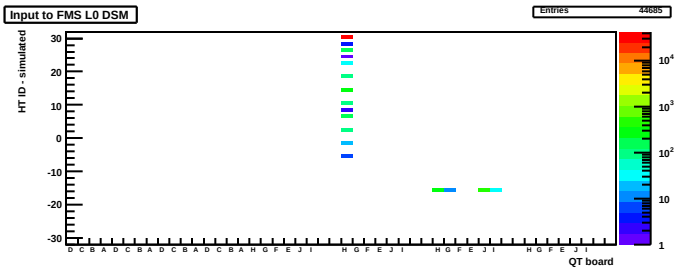

Input to FMS L0 DSM
Entries 2107776
QT8(3) sum
QT board

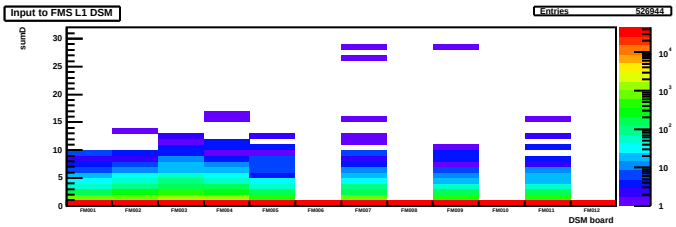

Input to FMS L0 DSM
Entries 41024
QT8(3) sum - simulated
QT board

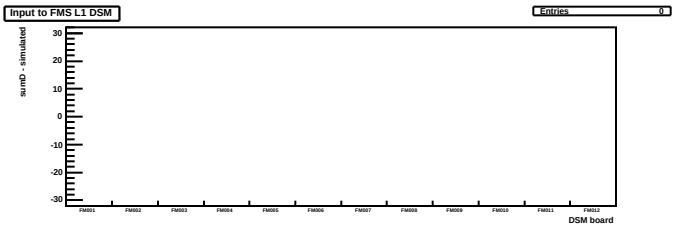

Input to FMS L0 DSM
Entries 2107776
HT ADC
QT board

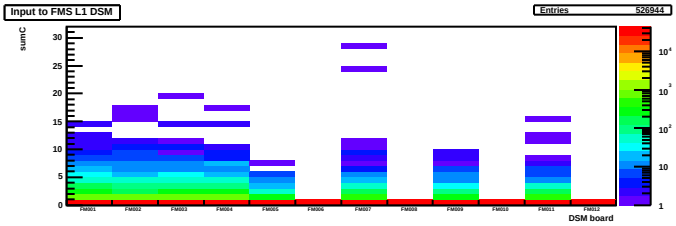

Input to FMS L0 DSM
Entries 5
HT ADC - simulated
QT board

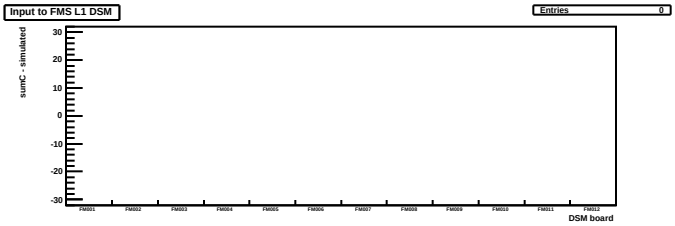

Input to FMS L0 DSM
Entries 2107776
HT ID
QT board

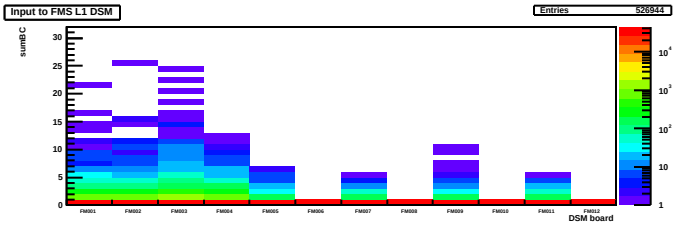

Input to FMS L0 DSM
Entries 44685
HT ID - simulated
QT board

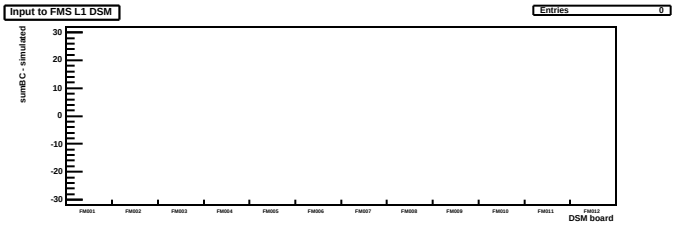

Input to FMS L1 DSM
Entries 526944
sumD
DSM board

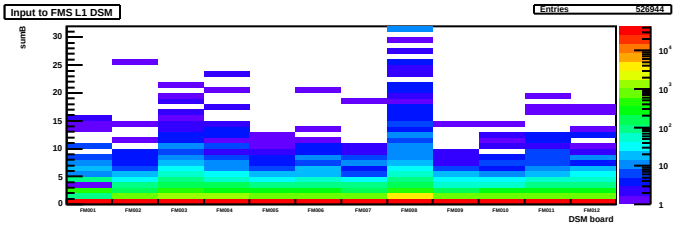

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

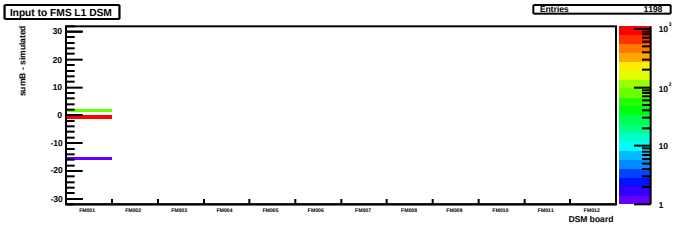

Input to FMS L1 DSM
Entries 526944
sumC
DSM board

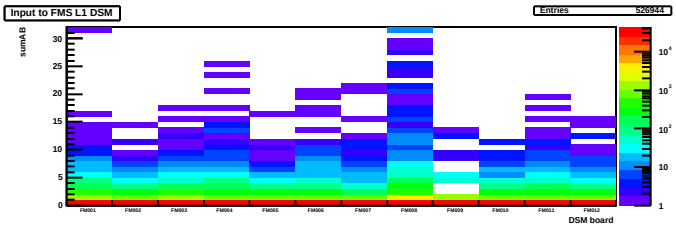

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

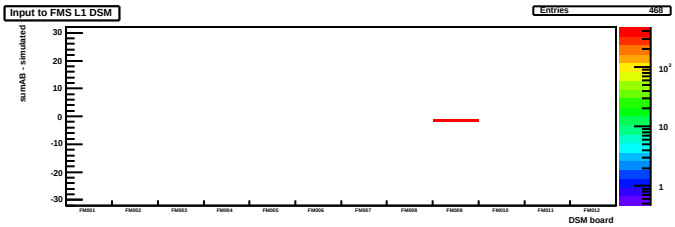

Input to FMS L1 DSM
Entries 526944
sumBC
DSM board

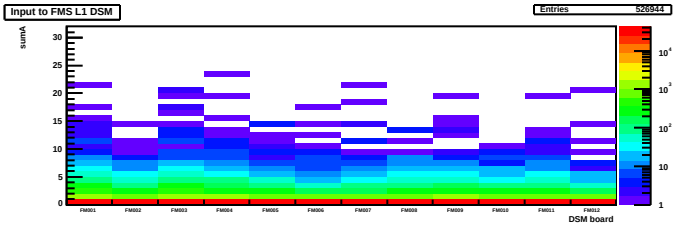

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

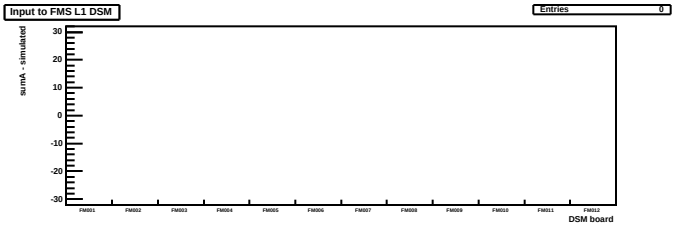

Input to FMS L1 DSM
Entries 526944
sumB
DSM board

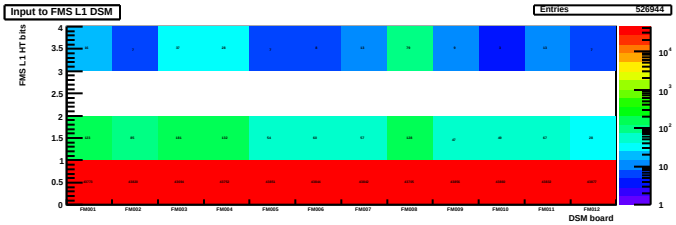

Input to FMS L1 DSM
Entries 1198
sumB - simulated
DSM board

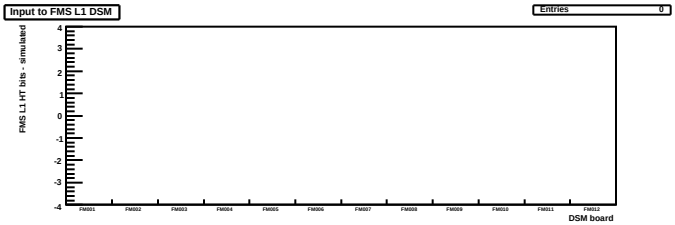

Input to FMS L1 DSM
Entries 526944
sumAB
DSM board

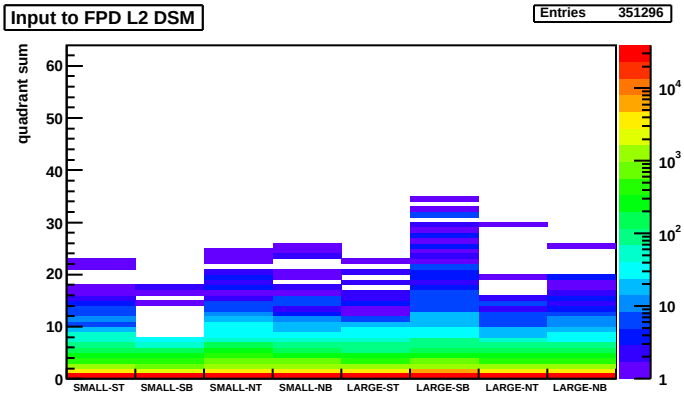

Input to FMS L1 DSM
Entries 468
sumAB - simulated
DSM board

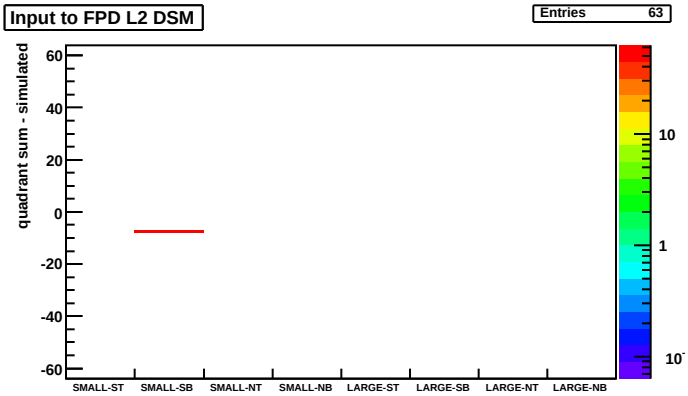

Input to FMS L1 DSM
Entries 526944
sumA
DSM board

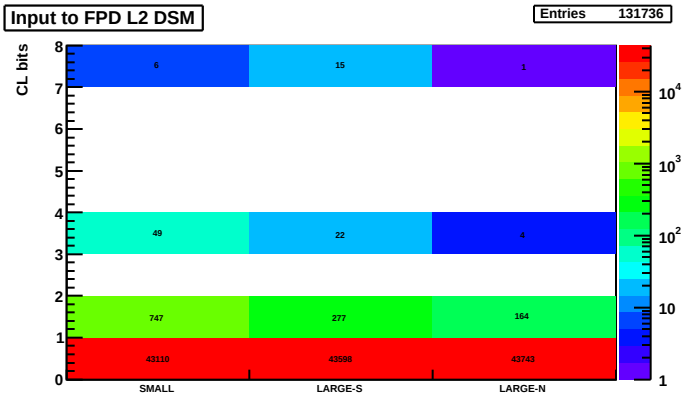

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

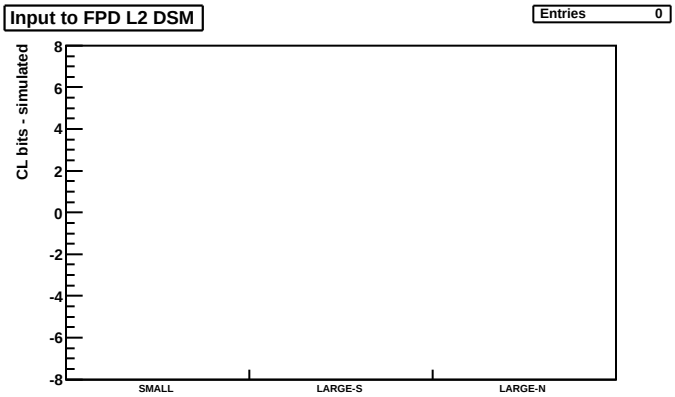

Input to FMS L1 DSM
Entries 526944
FMS L1 HT bits
DSM board

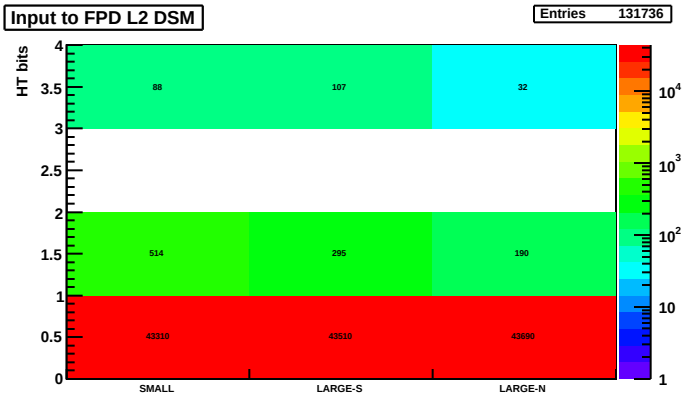

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

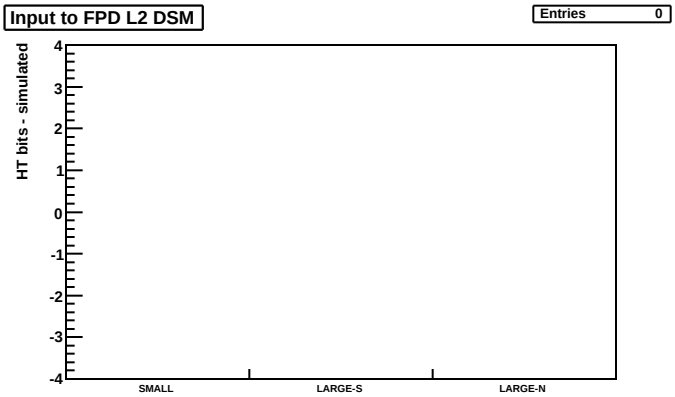

Input to FPD L2 DSM
Entries 351296
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

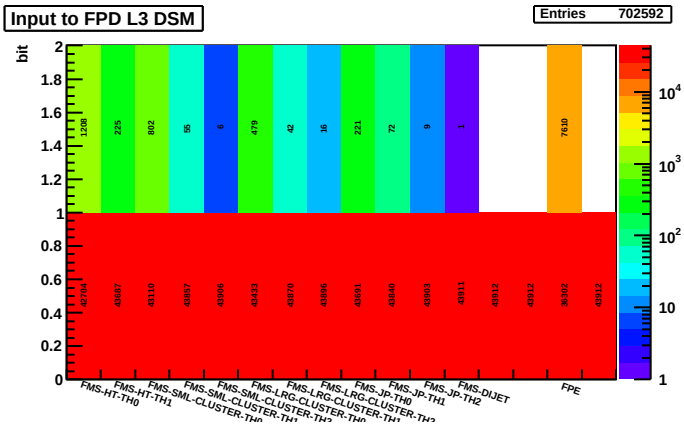

Input to FPD L2 DSM
Entries 63
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

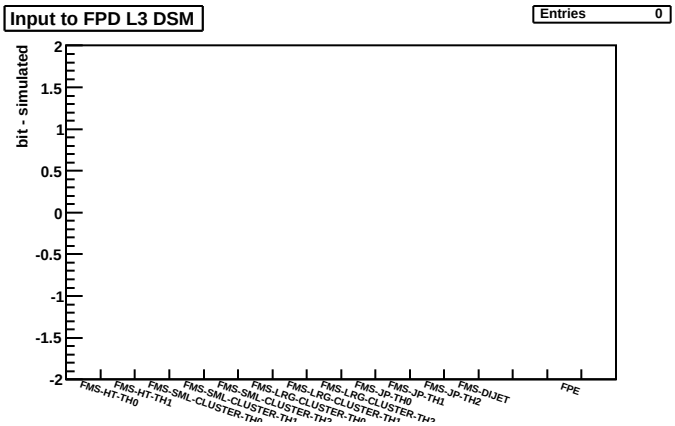

Input to FPD L2 DSM
Entries 131736
CL bits
6
15
1
49
22
4
747
277
164
43110
43598
43743
SMALL
LARGE-S
LARGE-N

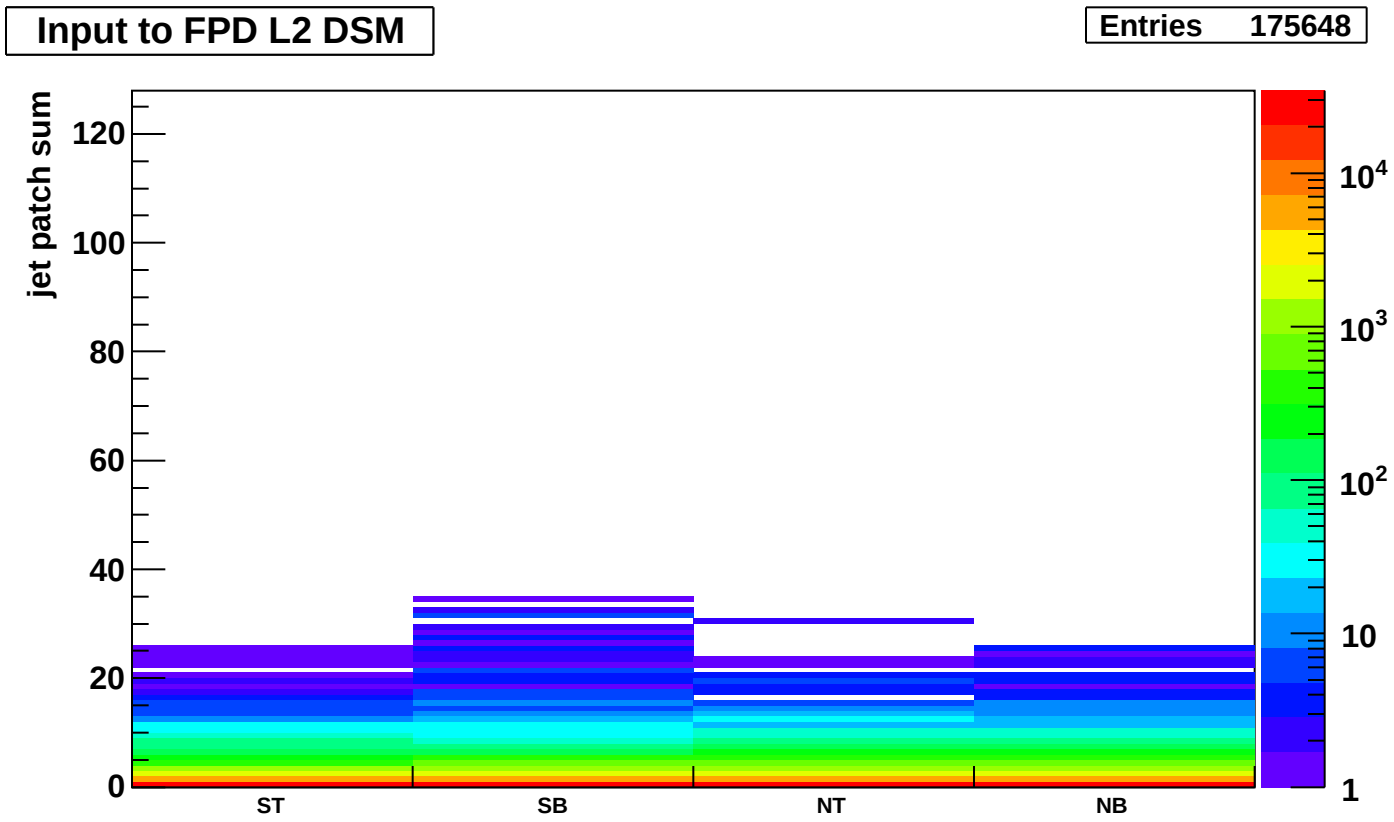

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

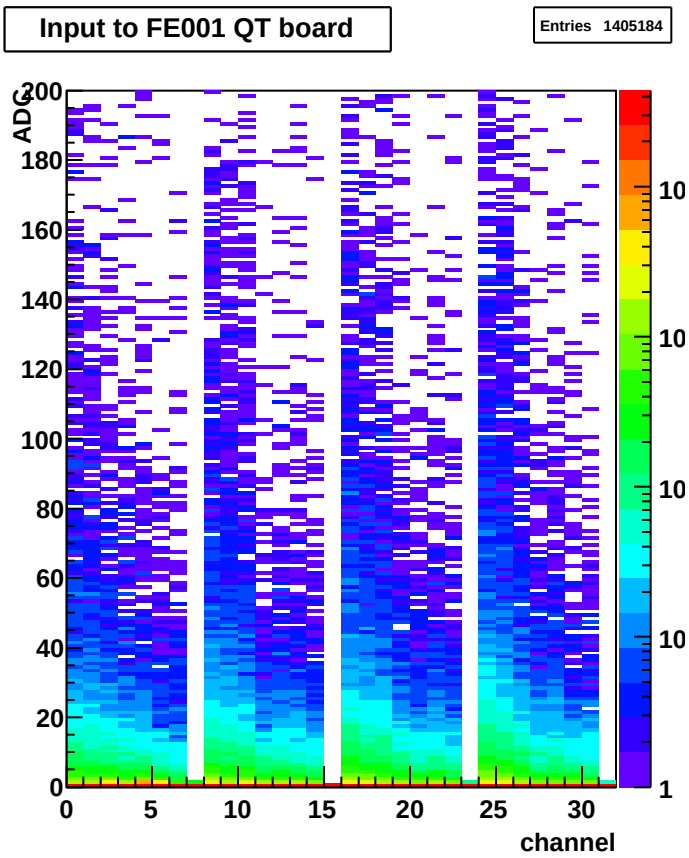

Input to FPD L2 DSM
Entries 131736
HT bits
88
107
32
514
295
190
43310
43510
43690
SMALL
LARGE-S
LARGE-N

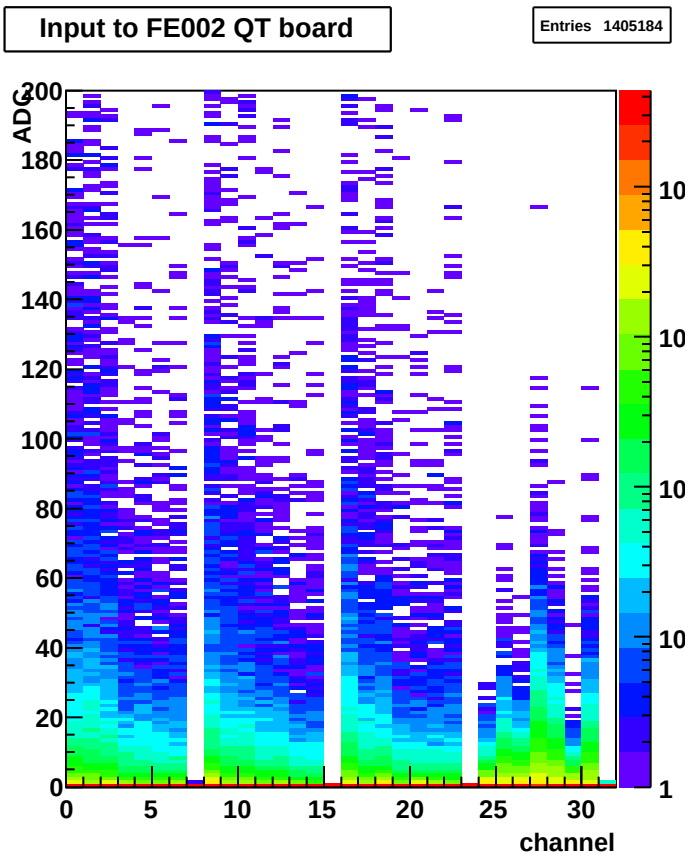

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

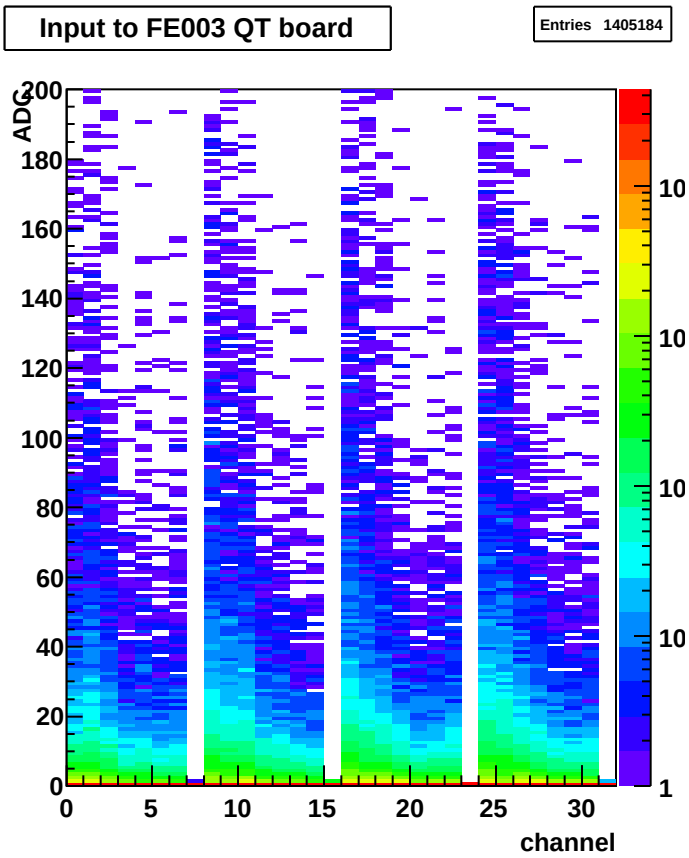

Input to FPD L3 DSM
Entries 702592
bit
1208
225
802
55
6
479
42
16
221
72
9
1
7610
42704
43687
43110
43857
43906
43433
43870
43896
43691
43840
43903
43911
43912
43912
30302
43912
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

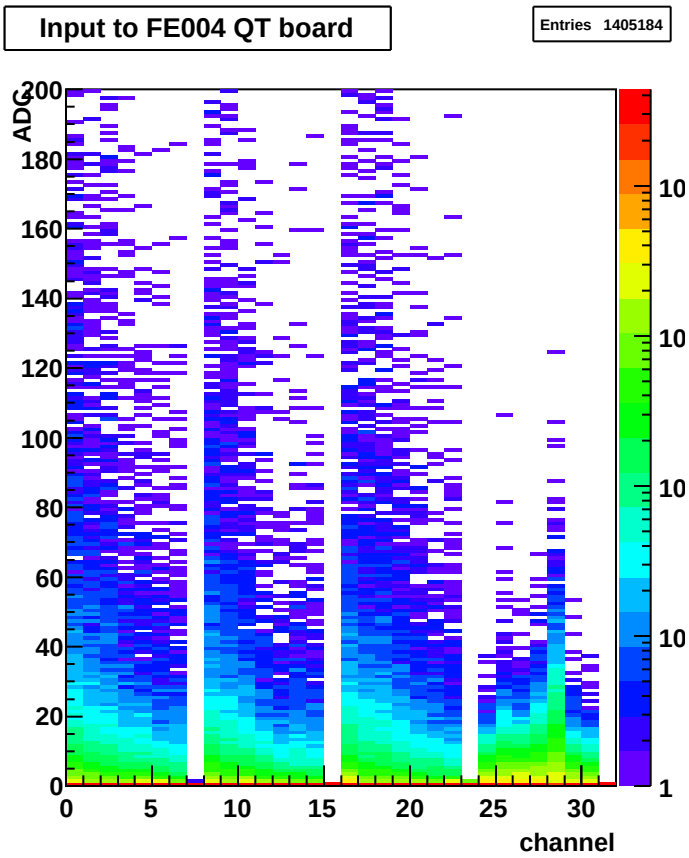

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

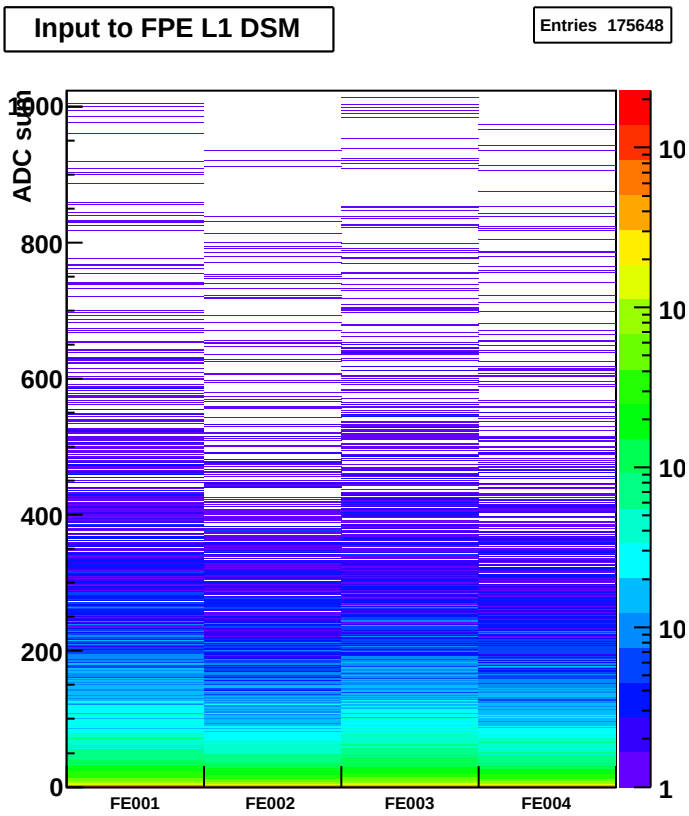

Input to FPD L2 DSM
Entries 175648
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

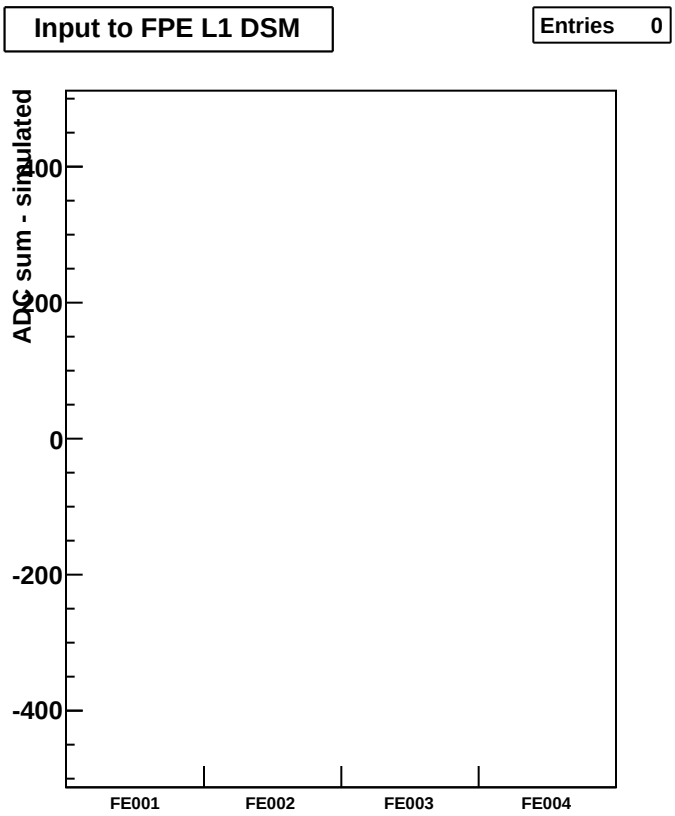

Input to FE001 QT board
Entries 1405184
ADC
channel

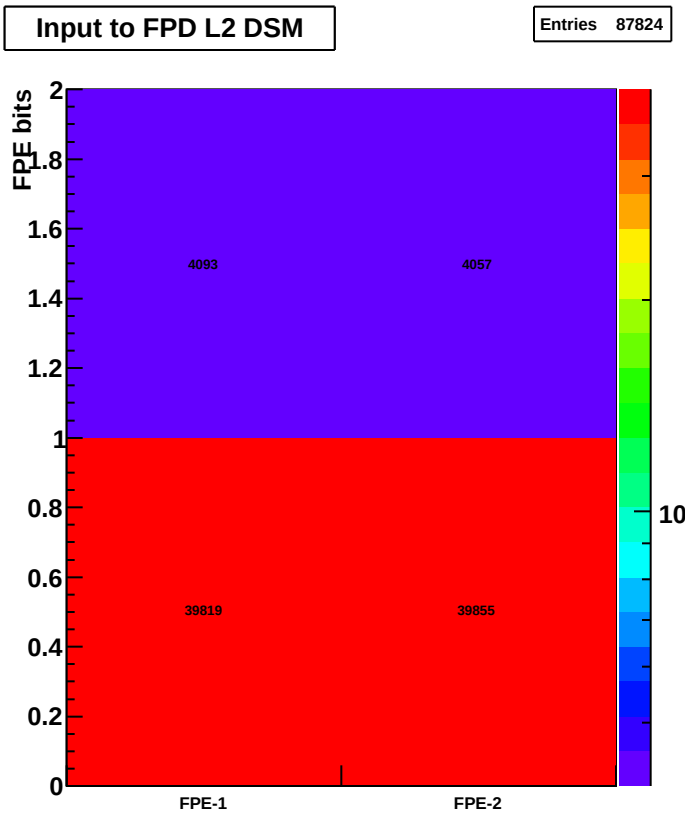

Input to FE002 QT board
Entries 1405184
ADC
channel

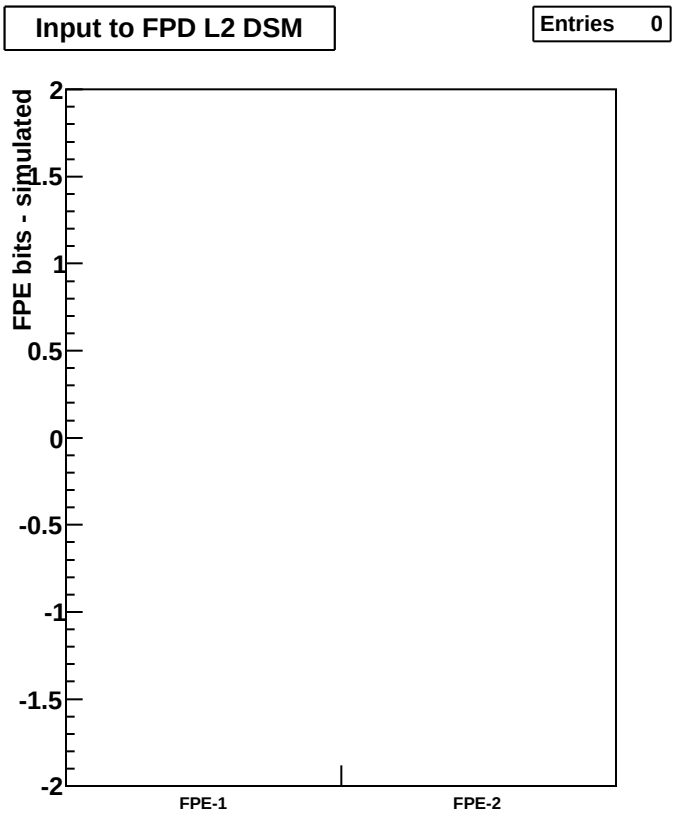

Input to FE003 QT board
Entries 1405184
ADC
channel


Input to FE004 QT board
Entries 1405184
ADC
channel


Input to FPE L1 DSM
Entries 175648
ADC sum
1000
800
600
400
200
0
FE001
FE002
FE003
FE004
10
10
10
10
1


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


Input to FPD L2 DSM
Entries 87824
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
4093
4057
39819
39855
FPE-1
FPE-2
10


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