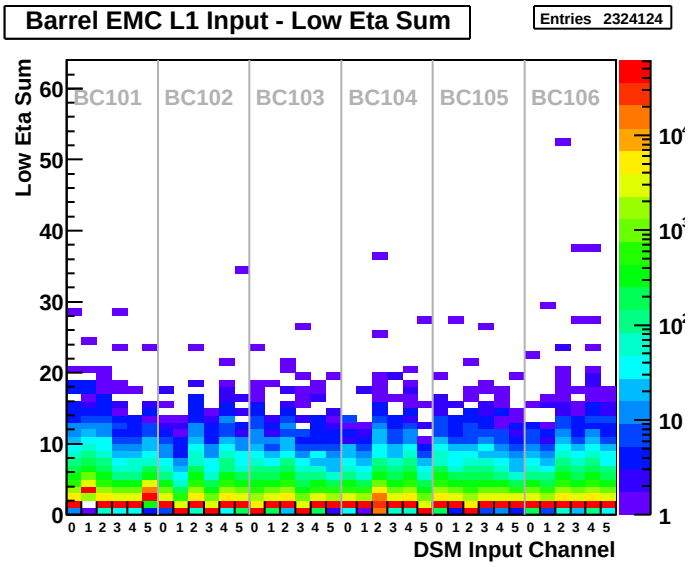
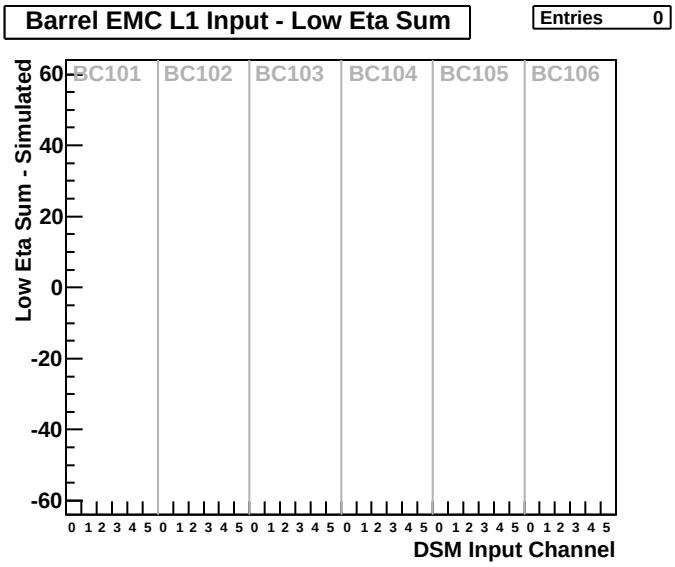
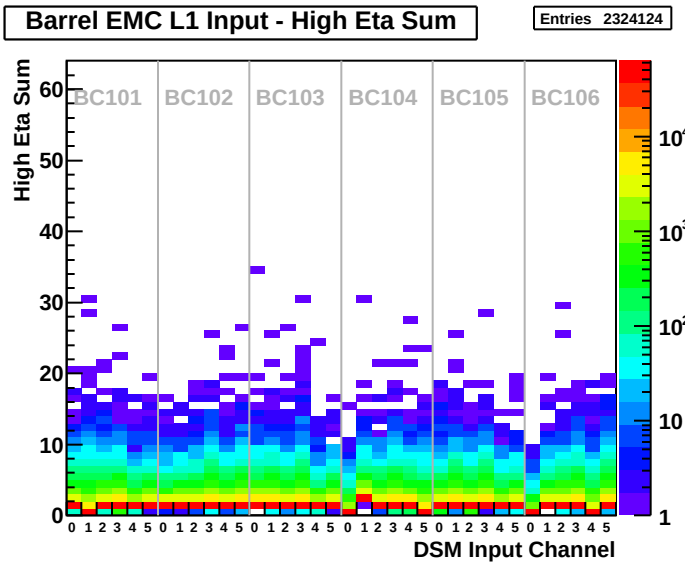
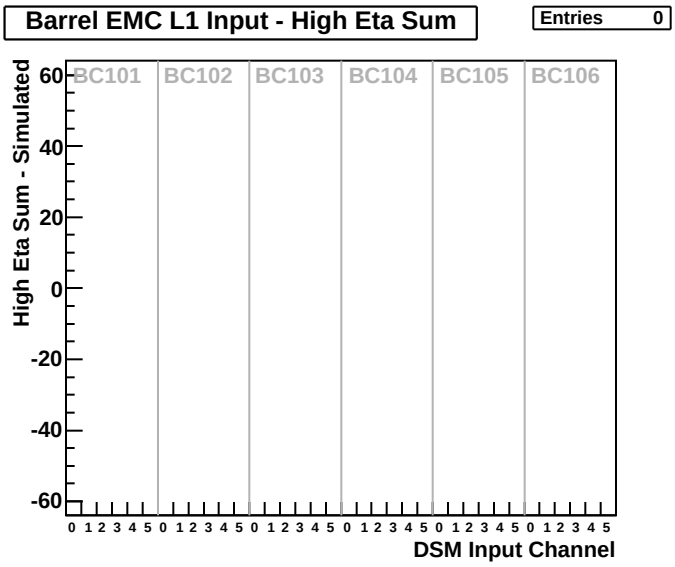
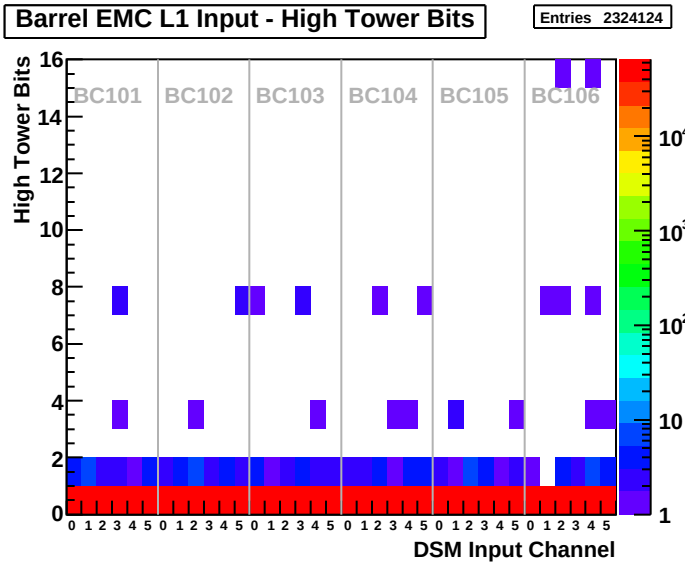
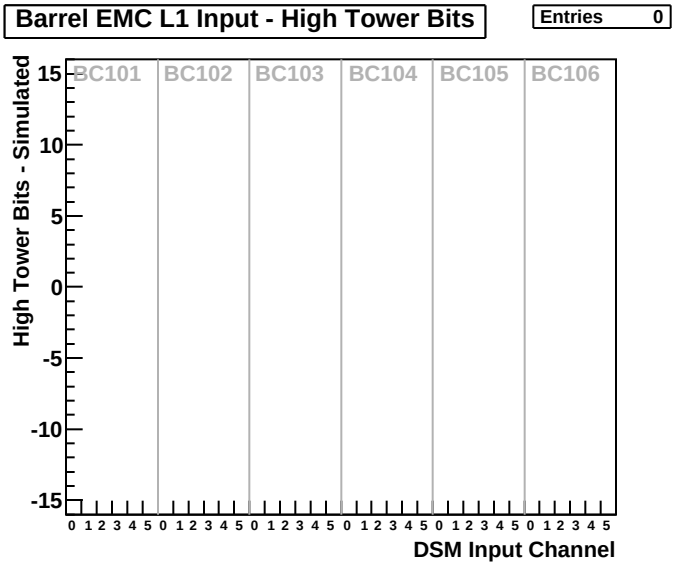

Barrel EMC L1 Input - Low Eta Sum
Entries 2324124
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

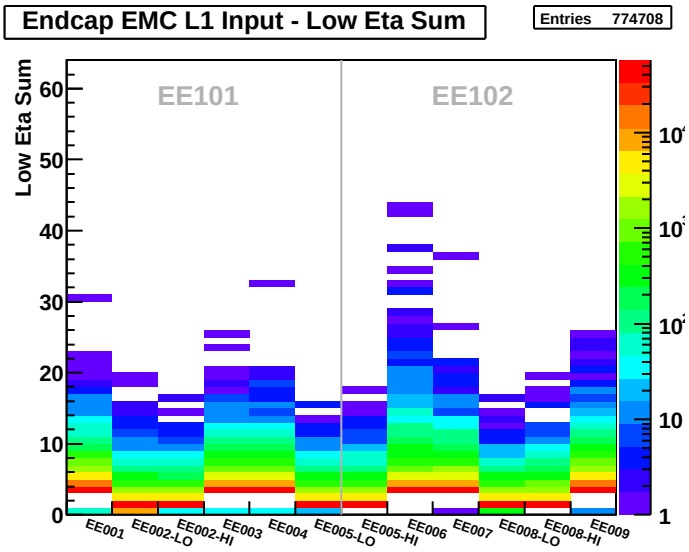

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

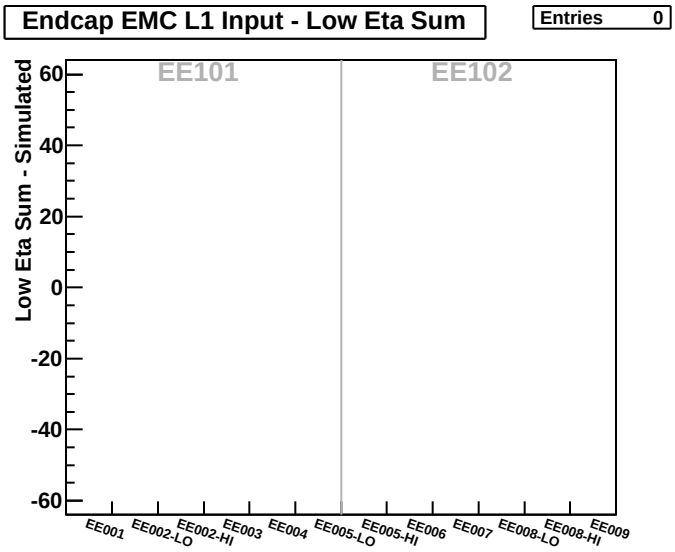

Barrel EMC L1 Input - High Eta Sum
Entries 2324124
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

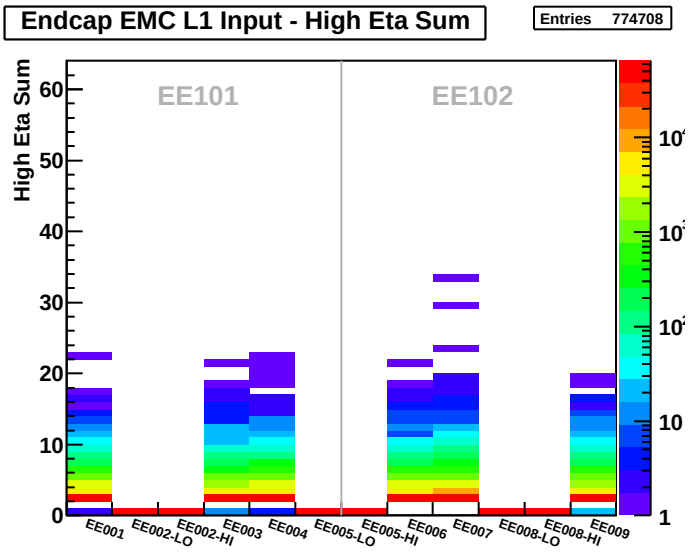

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

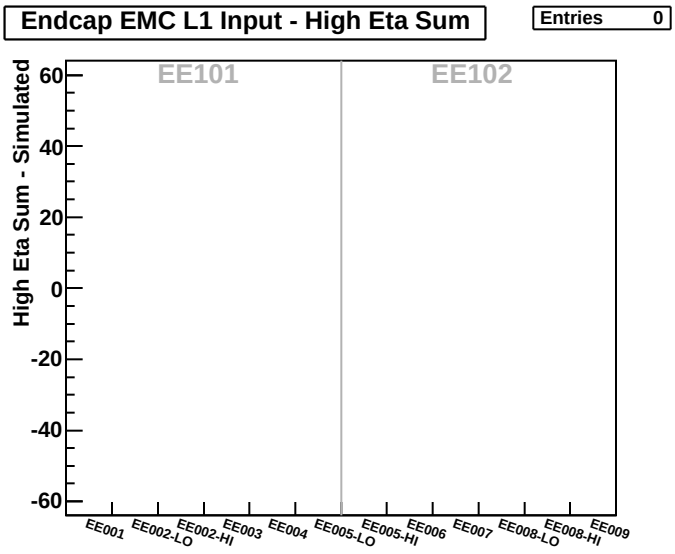

Barrel EMC L1 Input - High Tower Bits
Entries 2324124
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

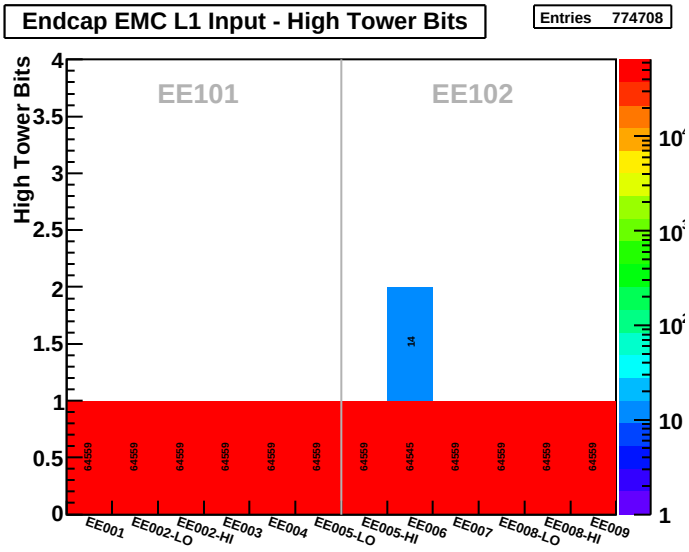

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

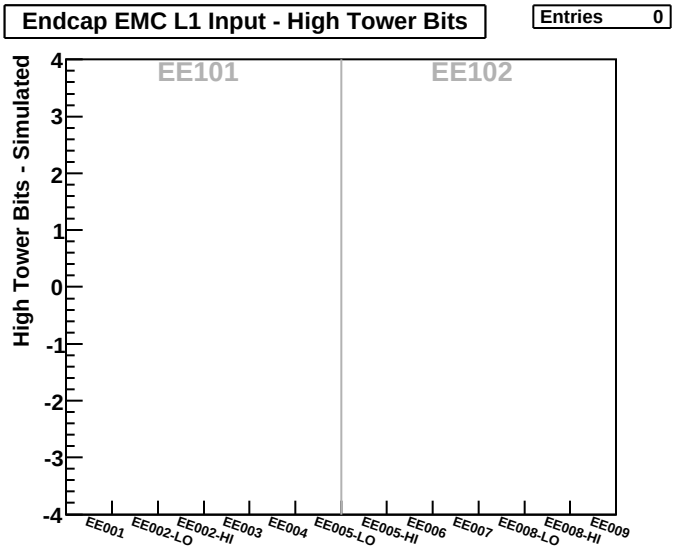

Endcap EMC L1 Input - Low Eta Sum
Entries 774708
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

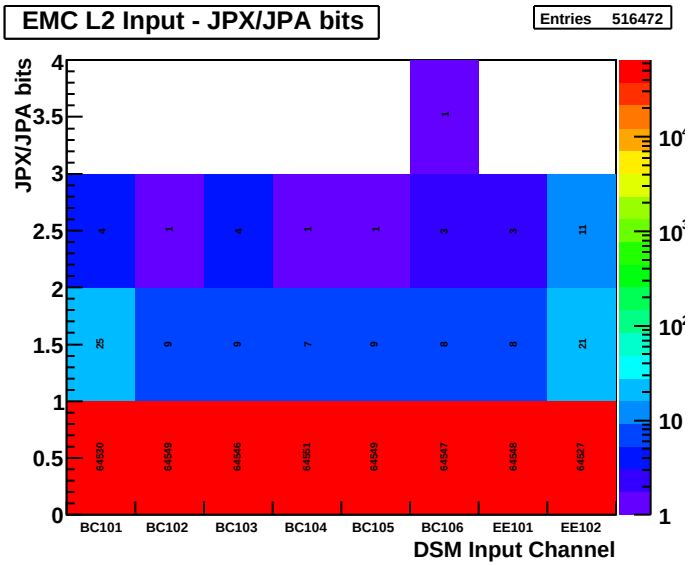

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

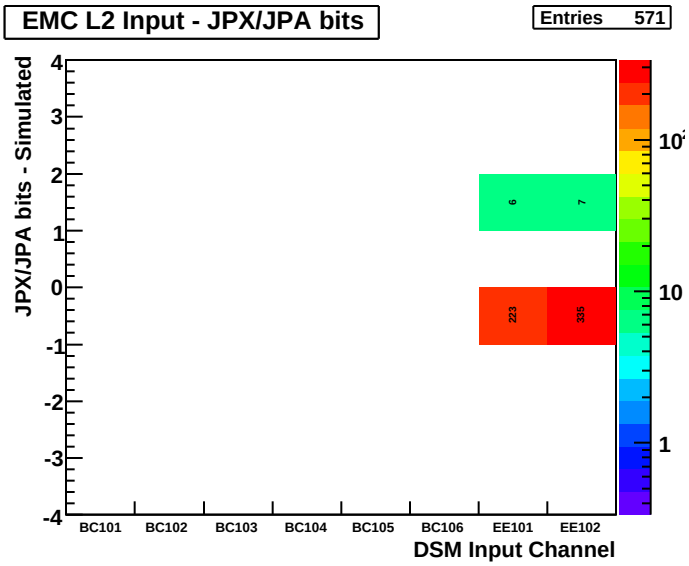

Endcap EMC L1 Input - High Eta Sum
Entries 774708
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

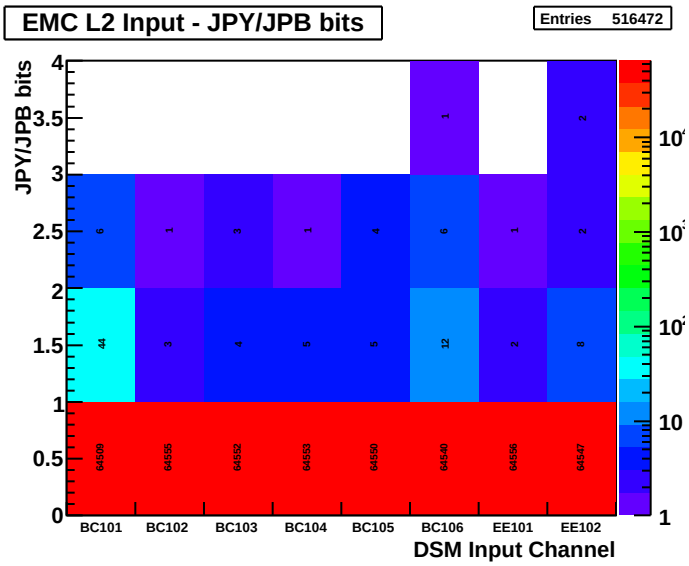

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

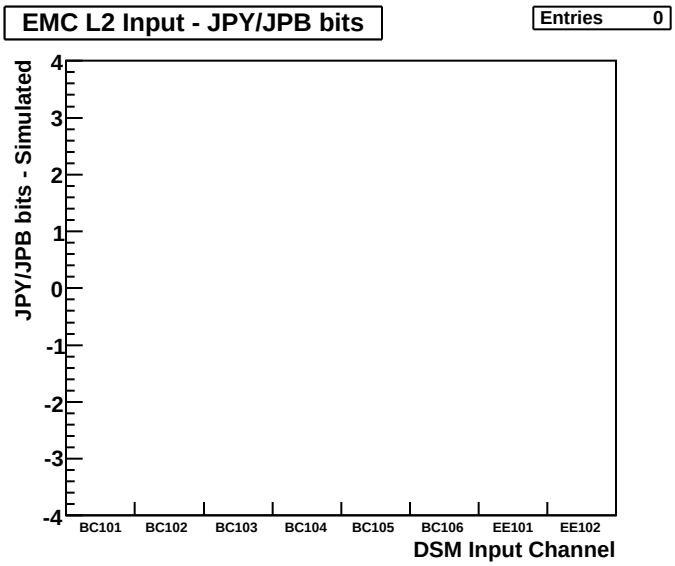

Endcap EMC L1 Input - High Tower Bits
Entries 774708
High Tower Bits
EE101
EE102
14
64559 64559 64559 64559 64559 64559 64559 64545 64559 64559 64559 64559
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

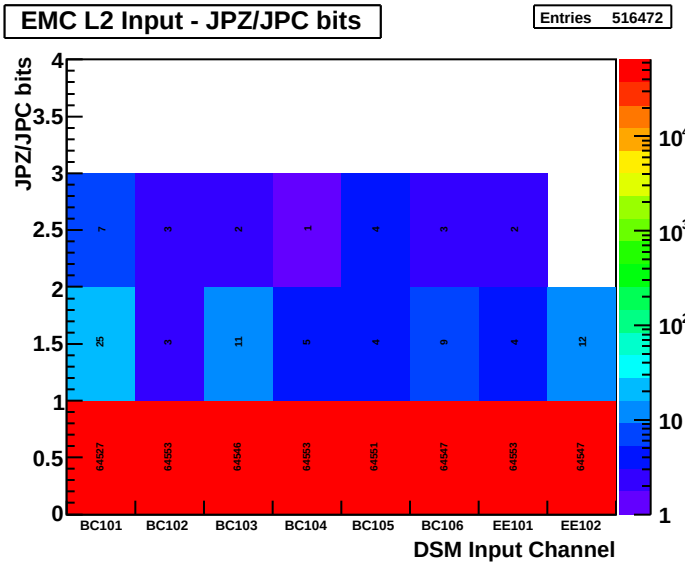

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

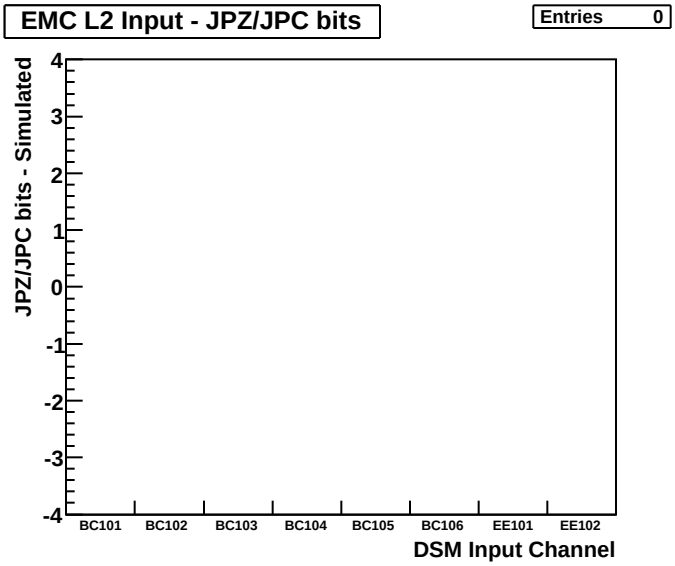

EMC L2 Input - JPX/JPA bits
Entries 516472
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

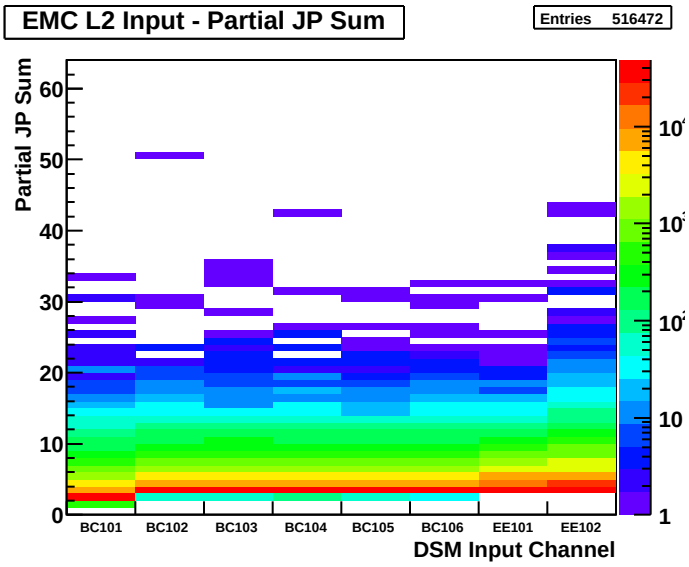

EMC L2 Input - JPX/JPA bits
Entries 571
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

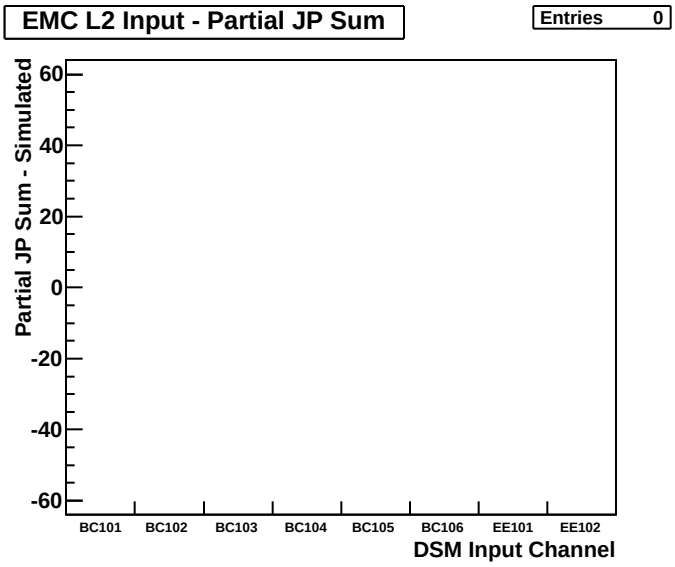

EMC L2 Input - JPY/JPB bits
Entries 516472
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

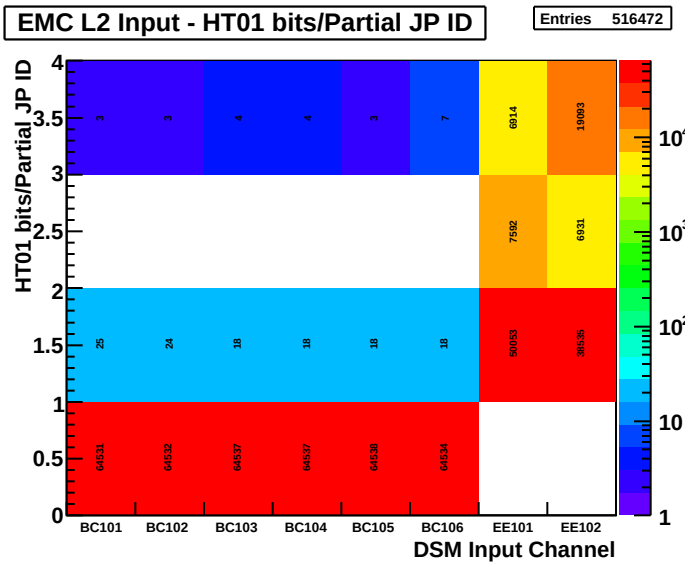

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

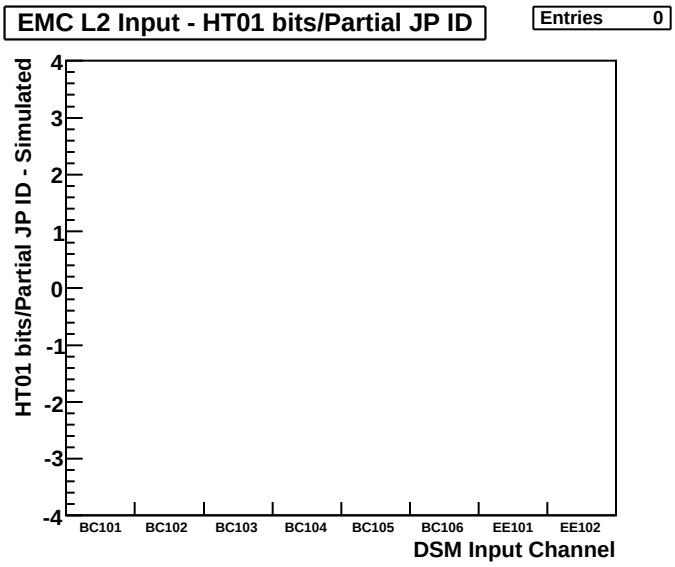

EMC L2 Input - JPZ/JPC bits
Entries 516472
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

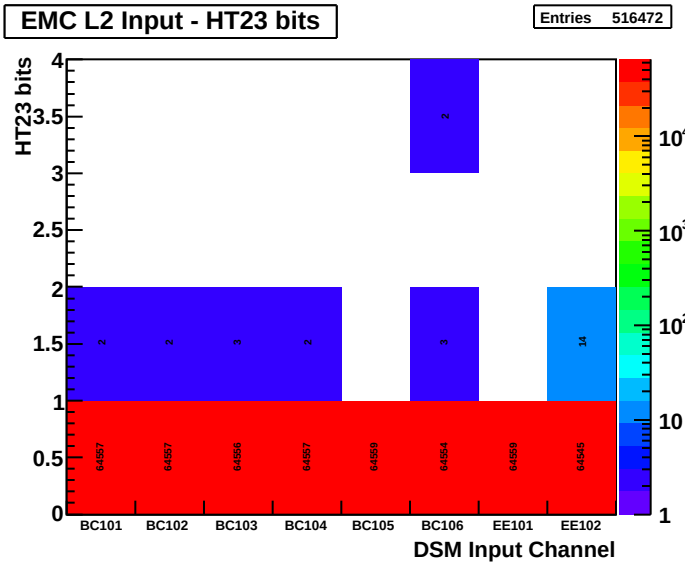

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

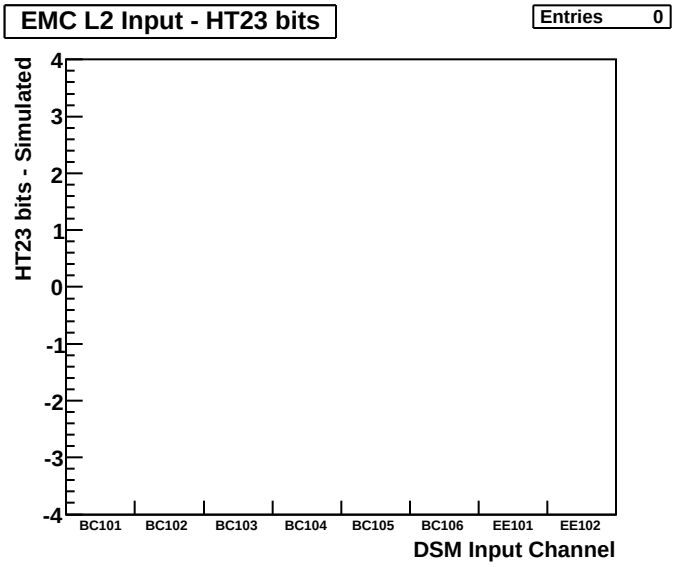

EMC L2 Input - Partial JP Sum
Entries 516472
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

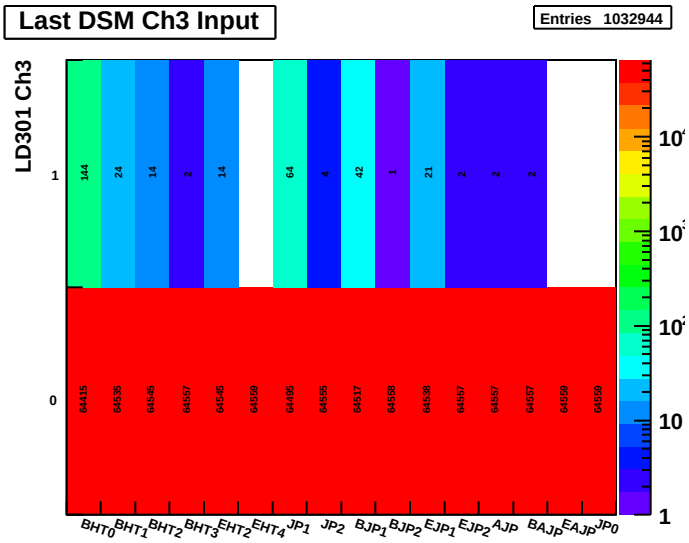

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

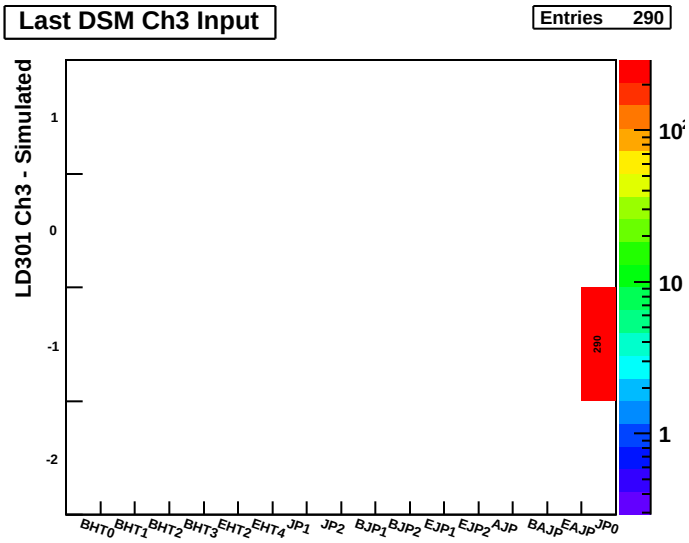

EMC L2 Input - HT01 bits/Partial JP ID
Entries 516472
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

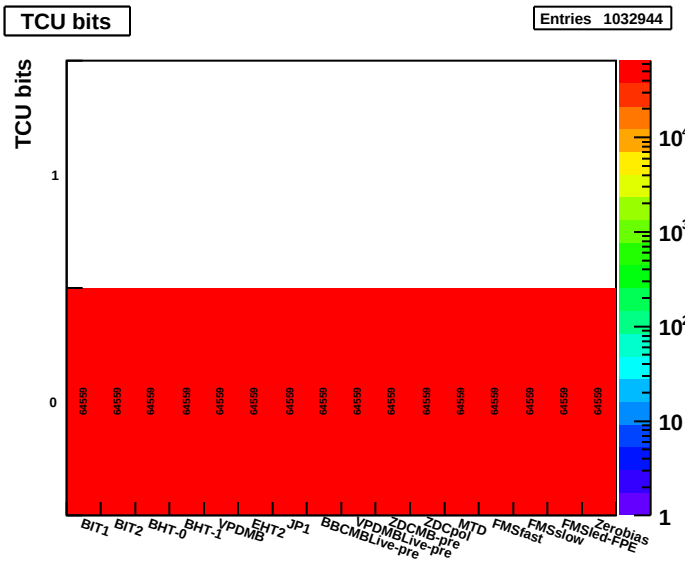

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

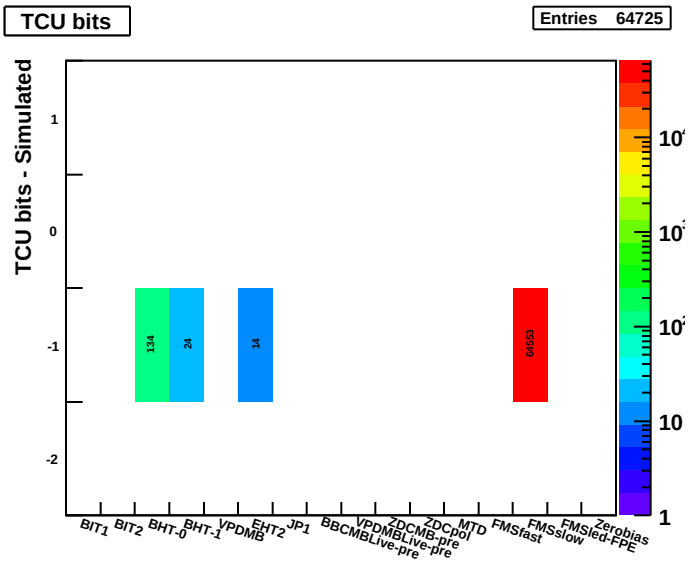

EMC L2 Input - HT23 bits
Entries 516472
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

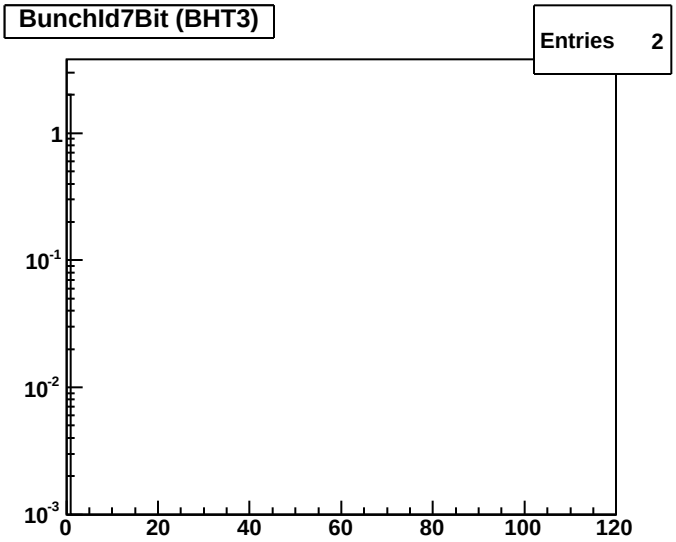

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

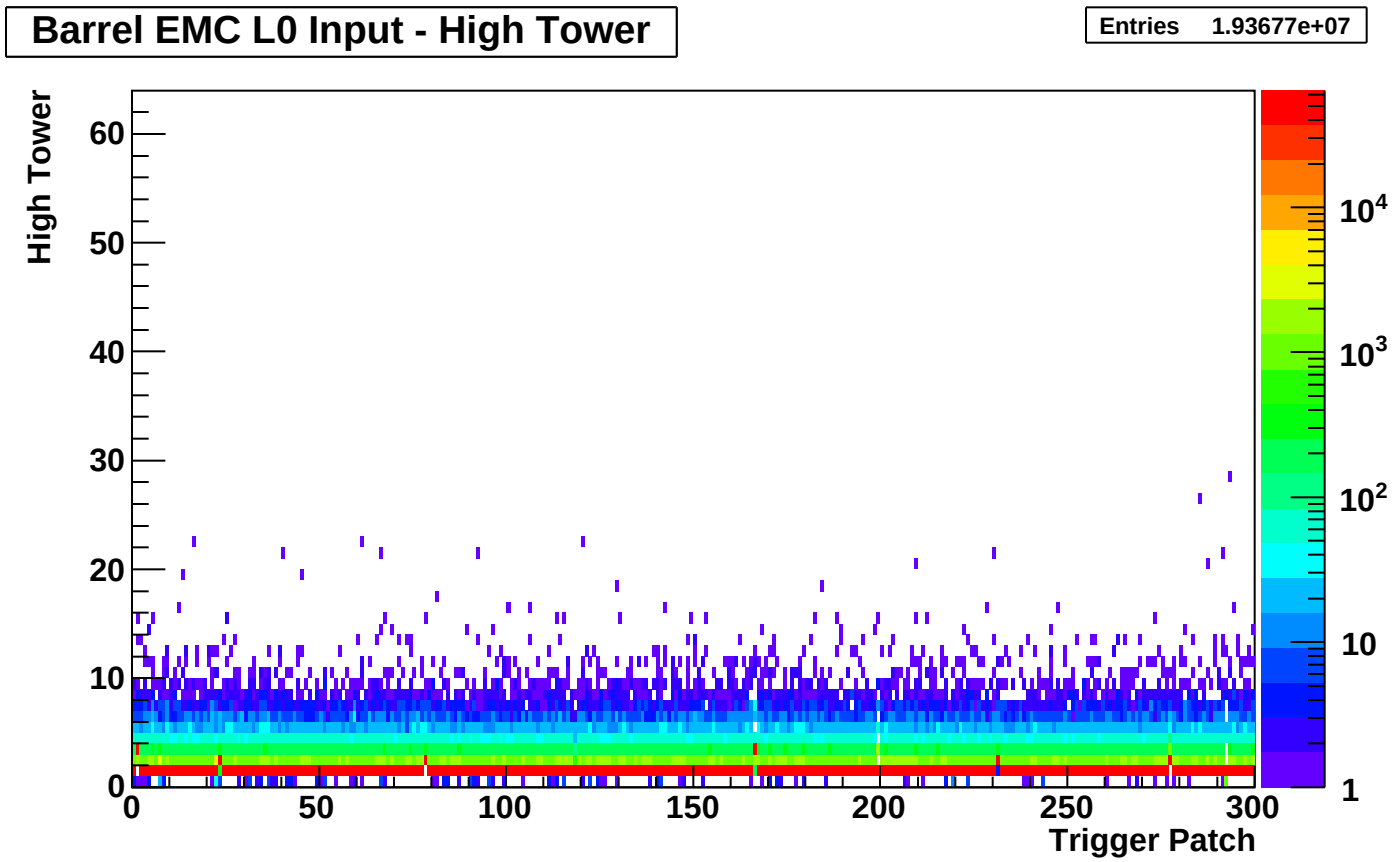

Last DSM Ch3 Input
Entries 1032944
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

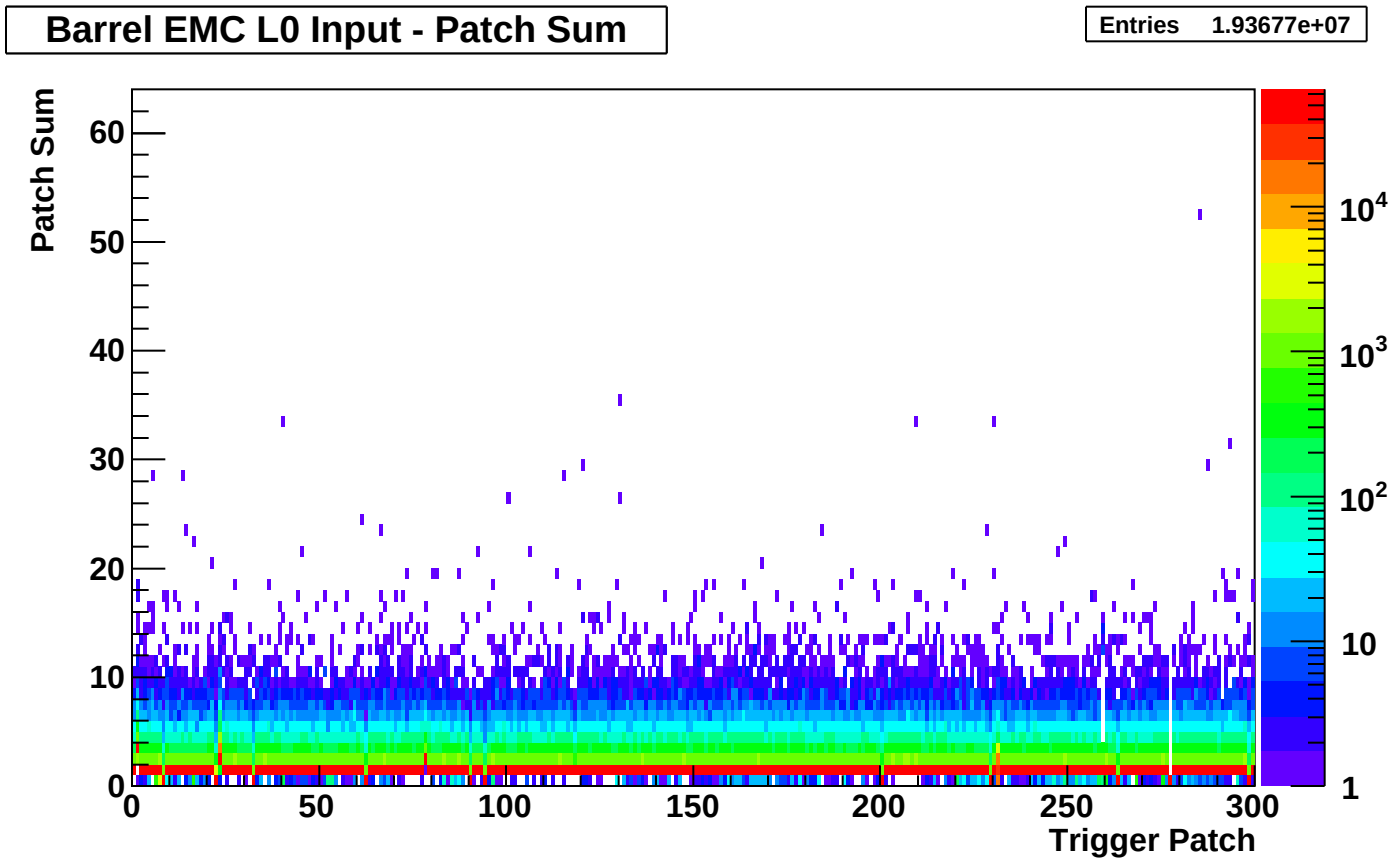

Last DSM Ch3 Input
Entries 290
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

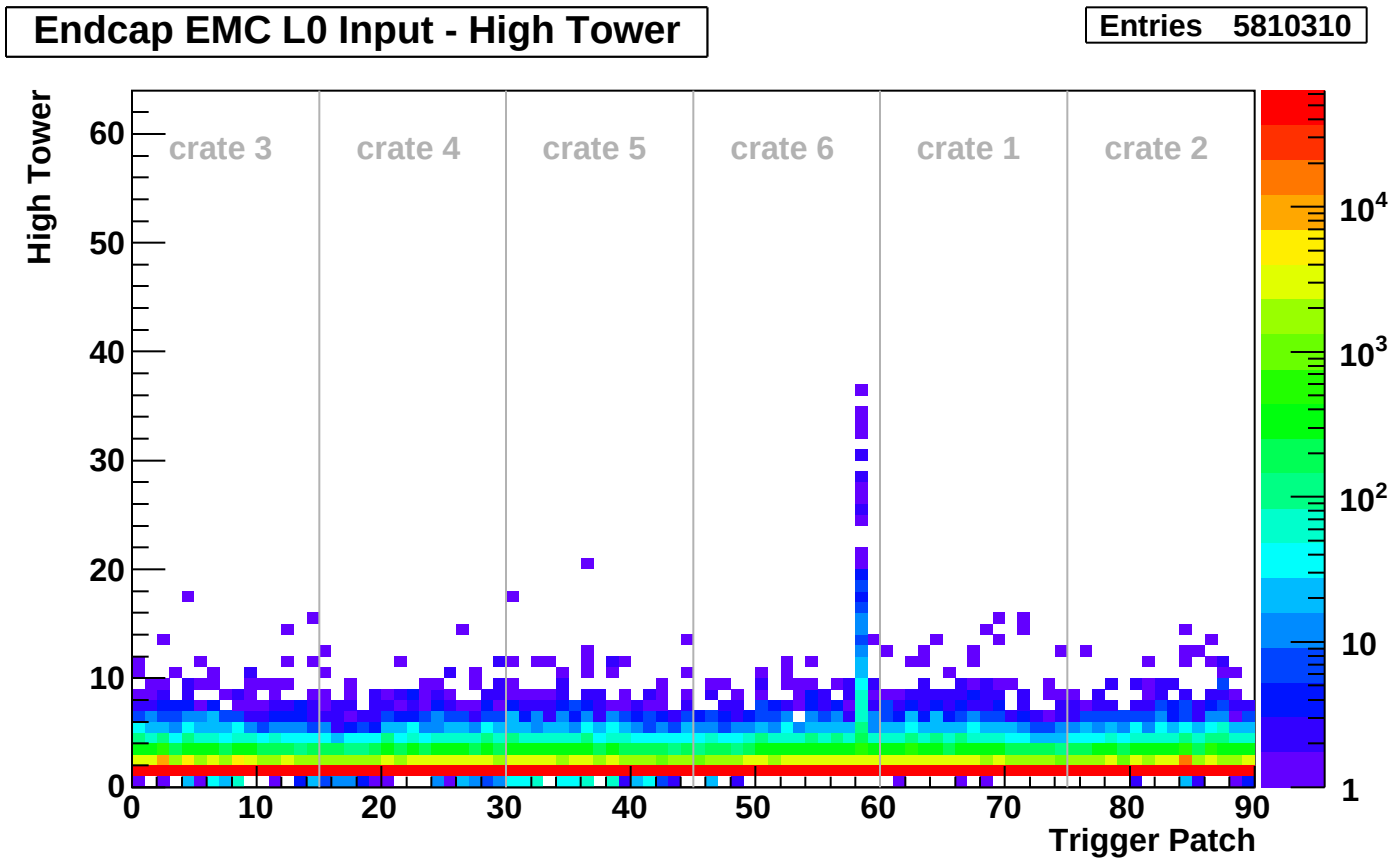

TCU bits
Entries 1032944
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

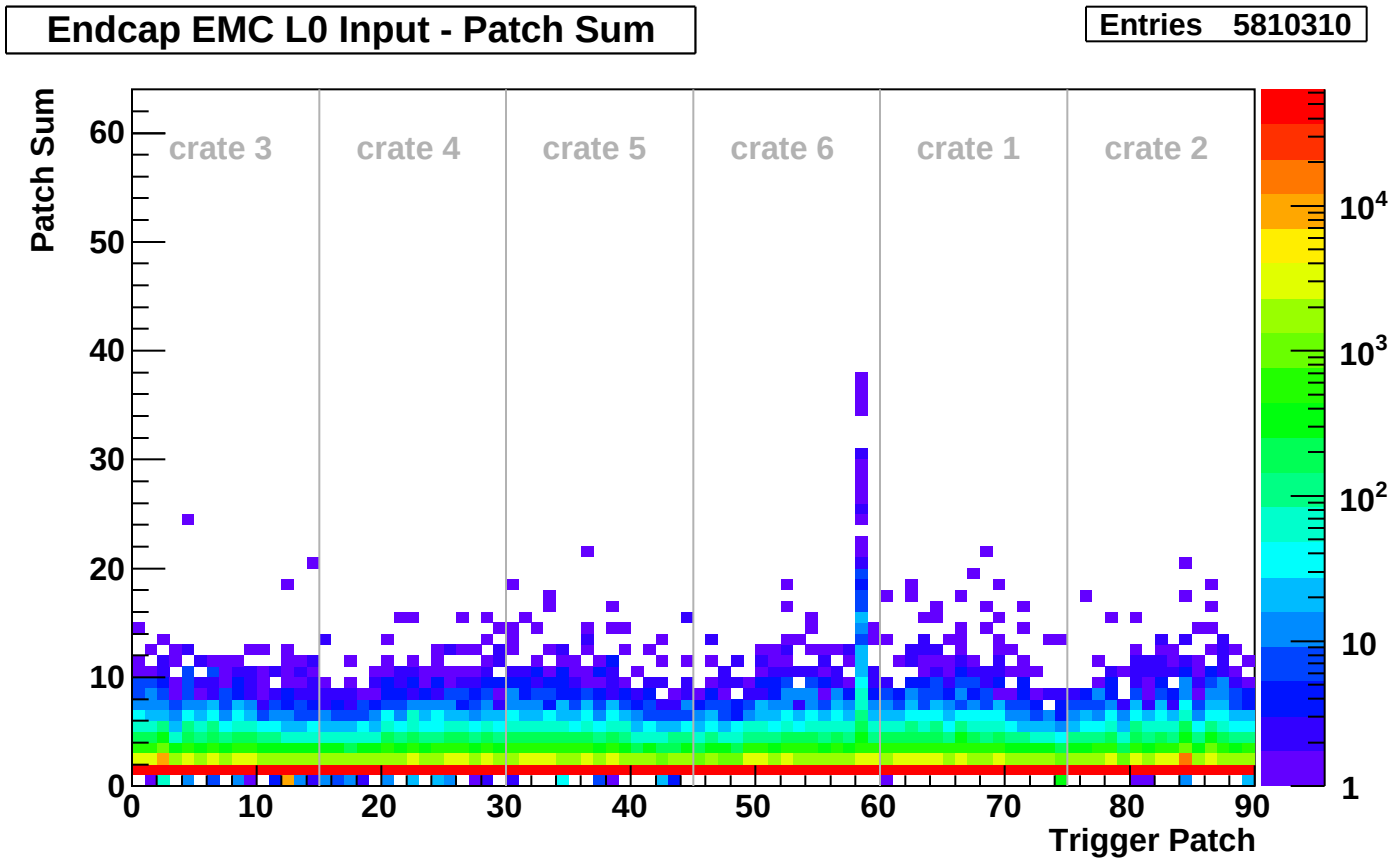

TCU bits
Entries 64725
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

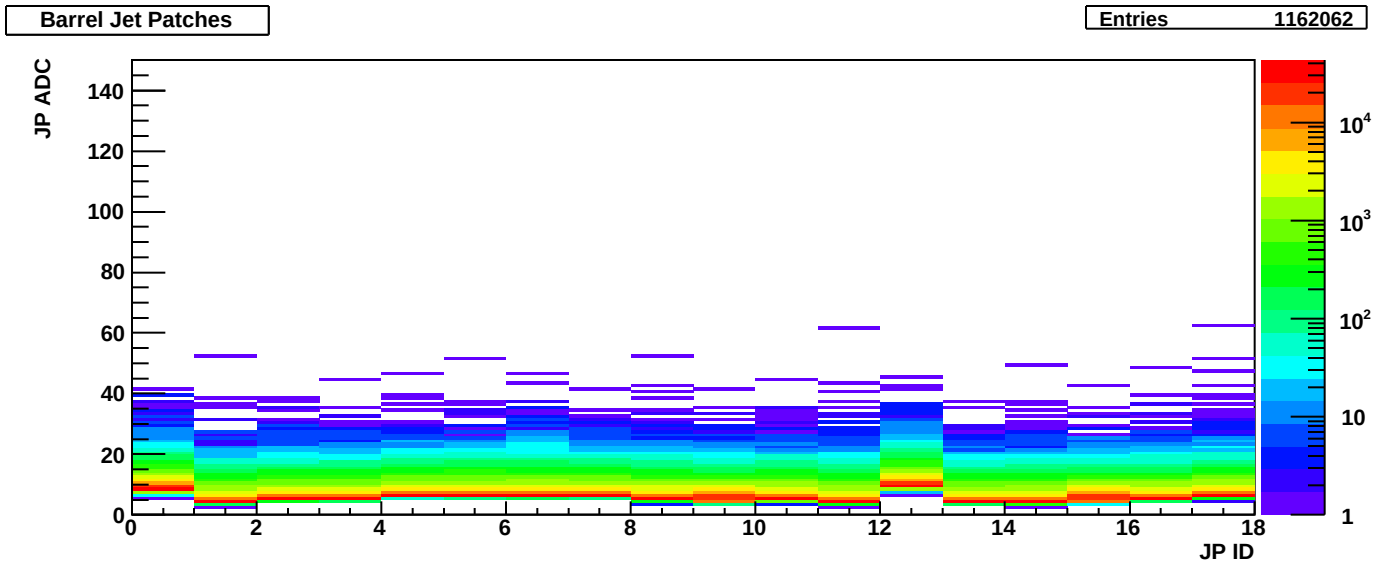

BunchId7Bit (BHT3)
Entries 2

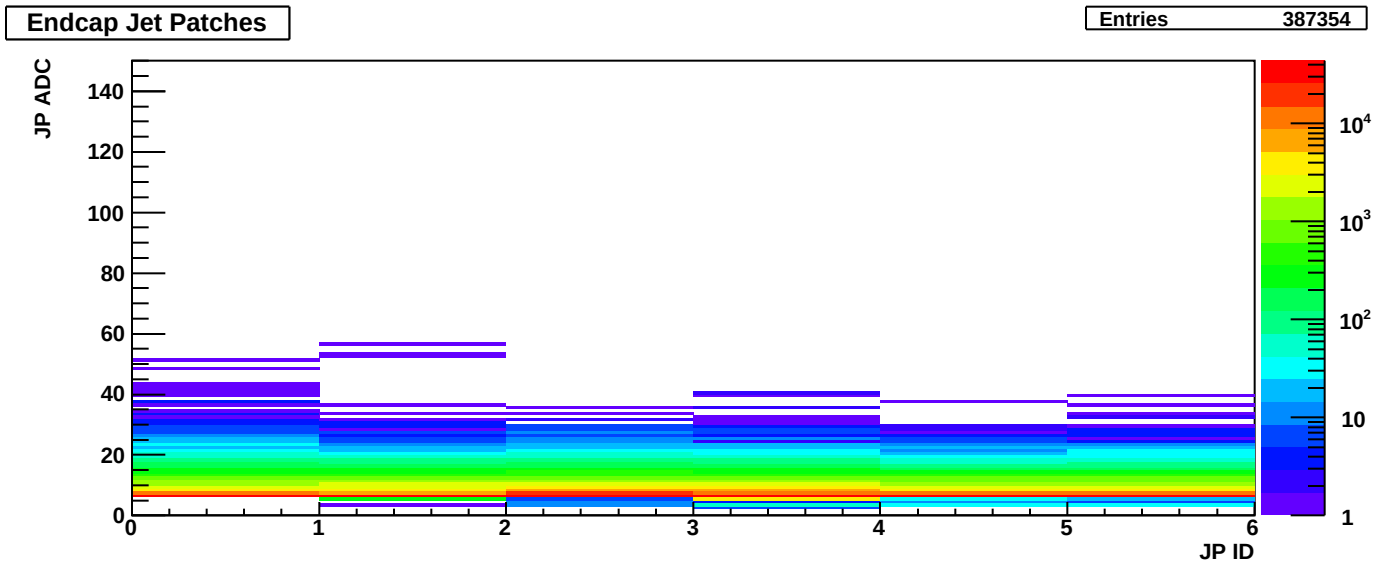

Barrel EMC L0 Input - High Tower
Entries 1.93677e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

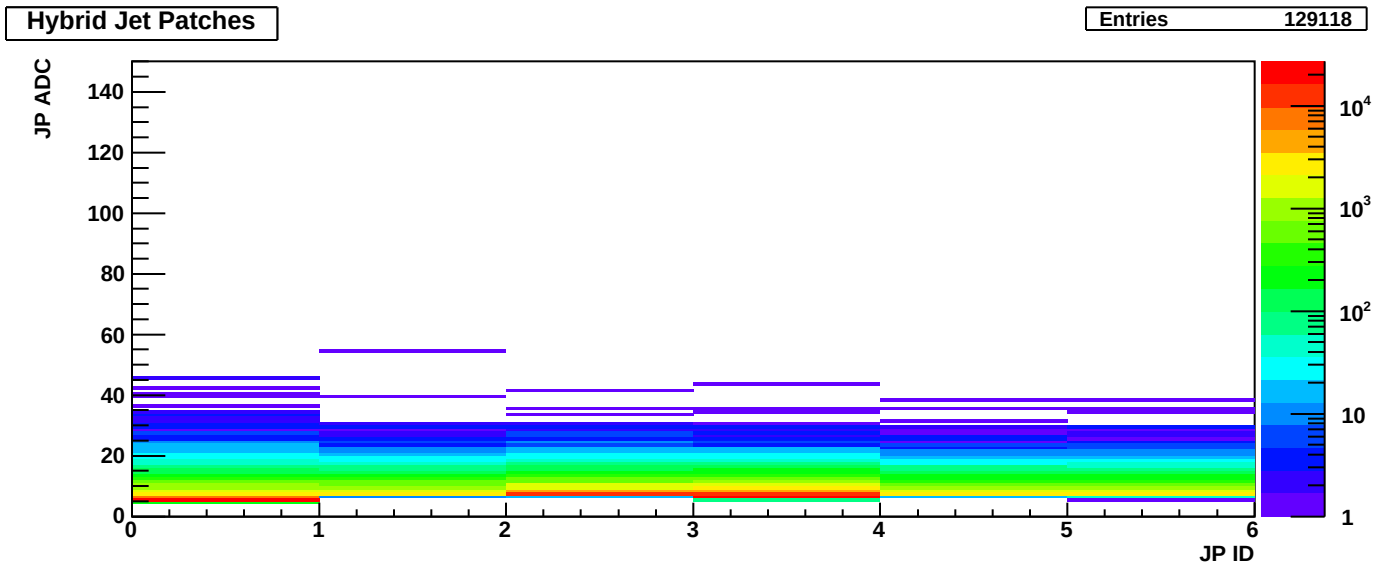

Barrel EMC L0 Input - Patch Sum
Entries 1.93677e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

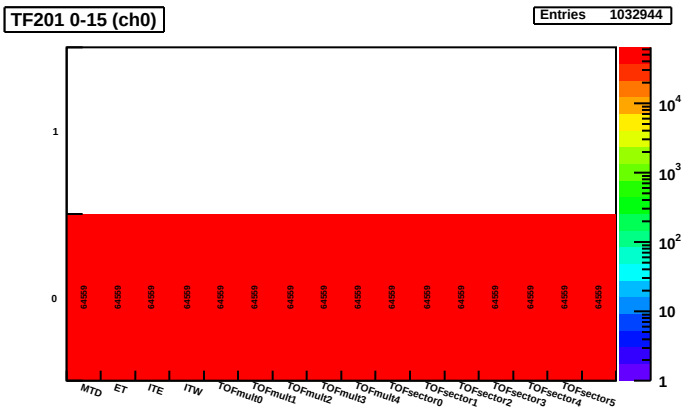

Endcap EMC L0 Input - High Tower
Entries 5810310
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

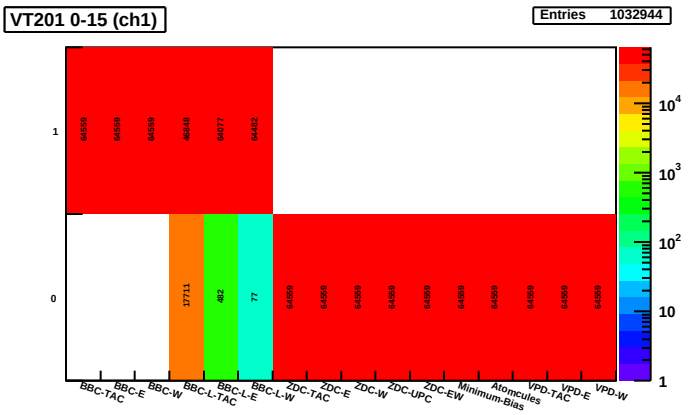

Endcap EMC L0 Input - Patch Sum
Entries 5810310
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

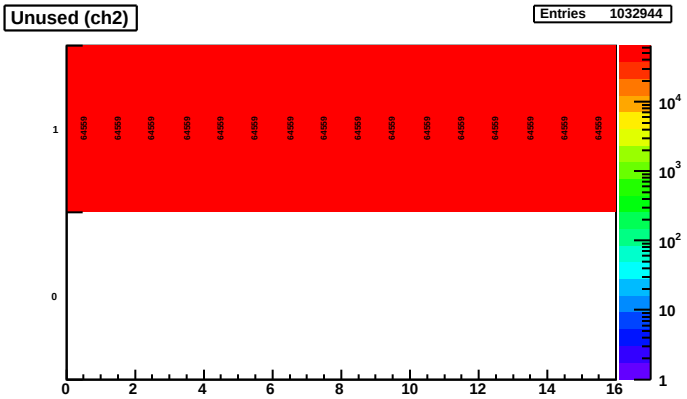

Barrel Jet Patches
Entries 1162062
JP ADC
JP ID

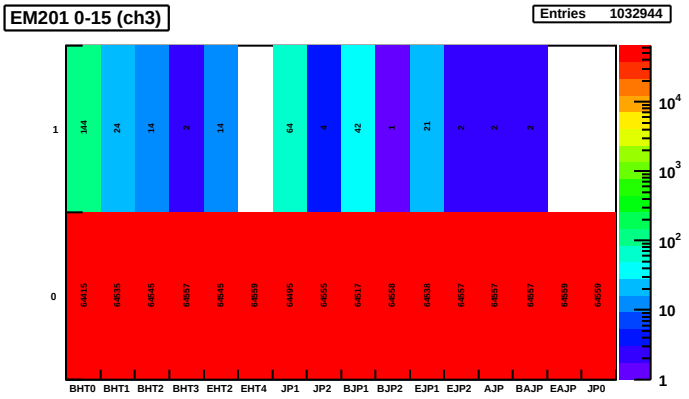

Endcap Jet Patches
Entries 387354
JP ADC
JP ID

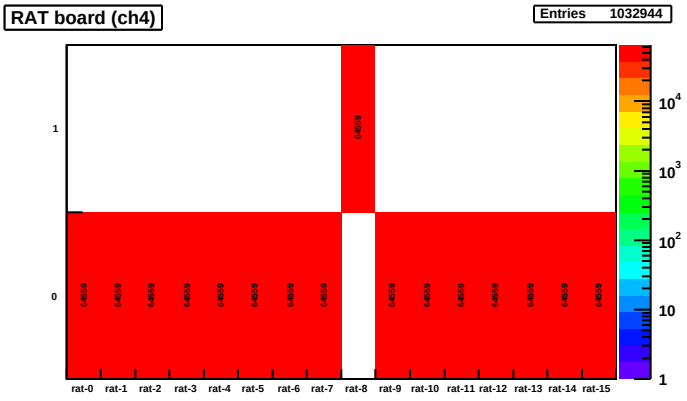

Hybrid Jet Patches
Entries 129118
JP ADC
JP ID

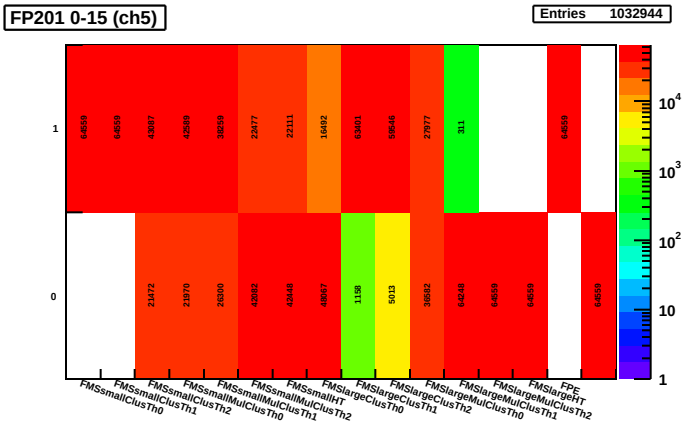

TF201 0-15 (ch0)
Entries 1032944
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

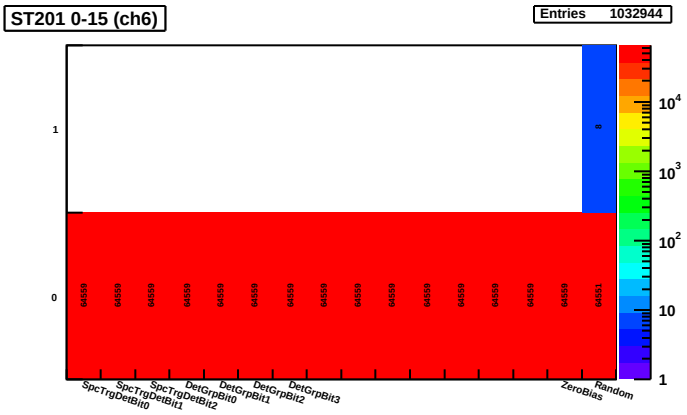

VT201 0-15 (ch1)
Entries 1032944
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

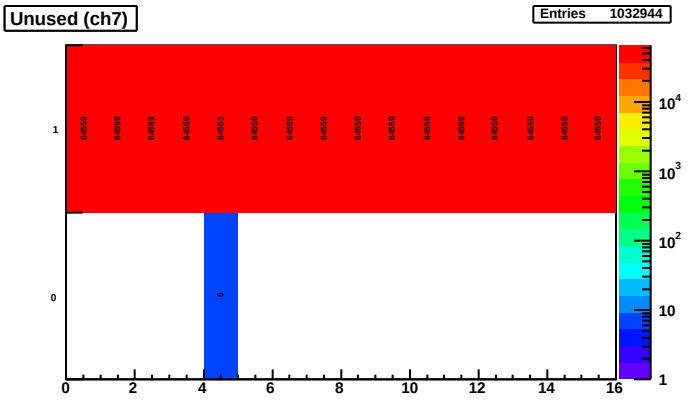

Unused (ch2)
Entries 1032944

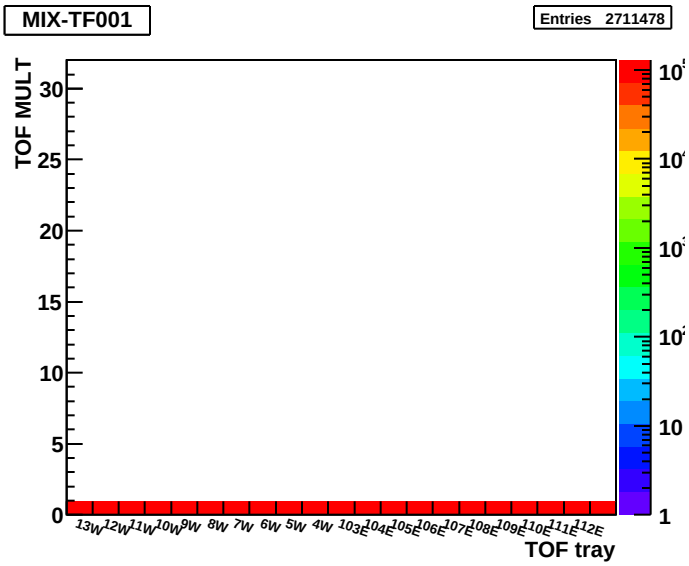

EM201 0-15 (ch3)
Entries 1032944
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

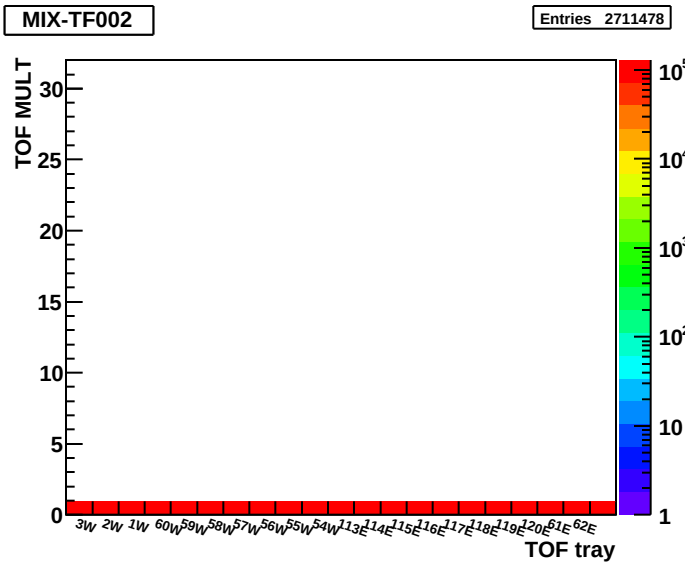

RAT board (ch4)
Entries 1032944
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

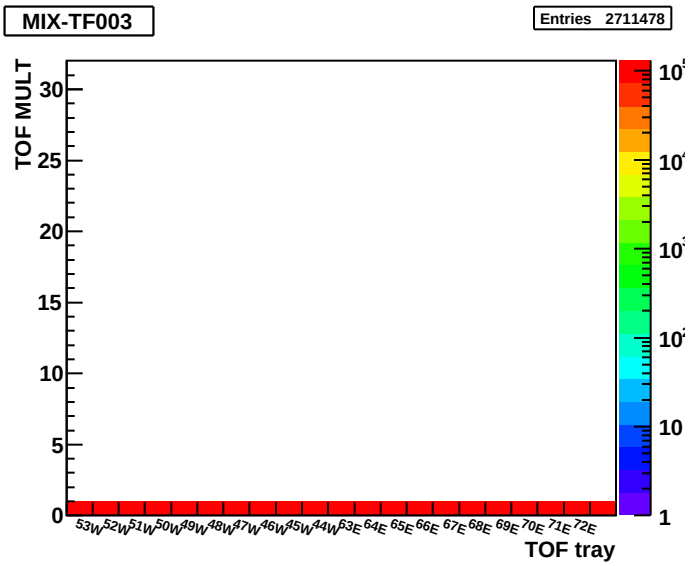

FP201 0-15 (ch5)
Entries 1032944
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

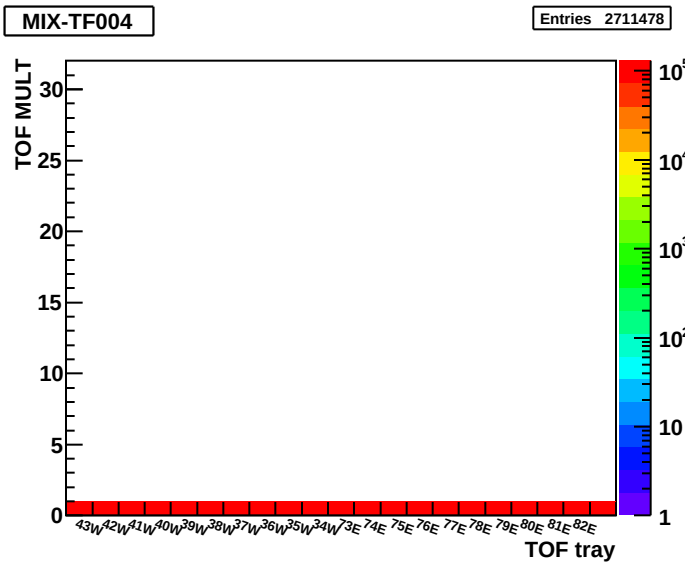

ST201 0-15 (ch6)
Entries 1032944
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

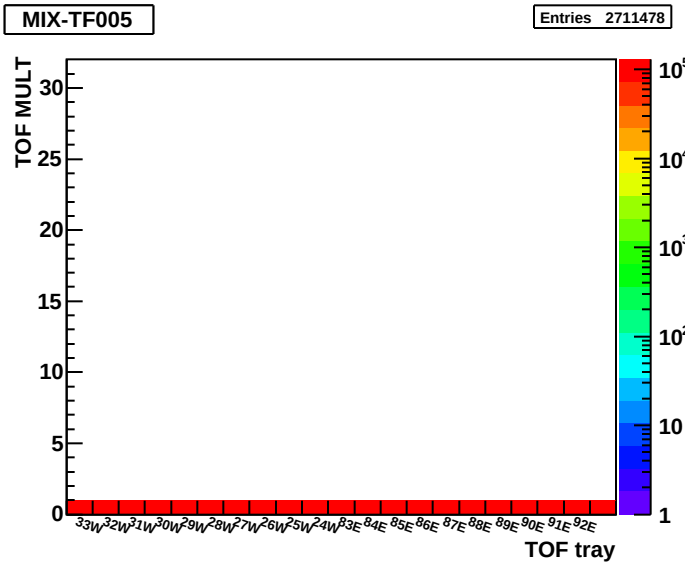

Unused (ch7)
Entries 1032944

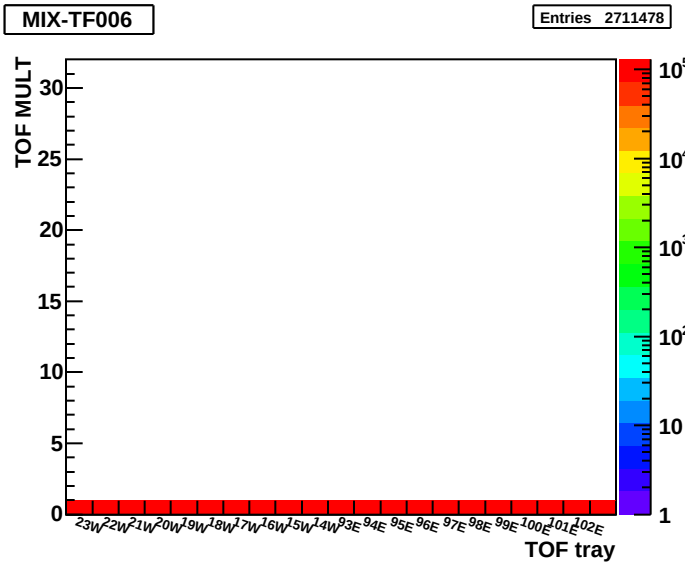

MIX-TF001
Entries 2711478
TOF MULT
TOF tray

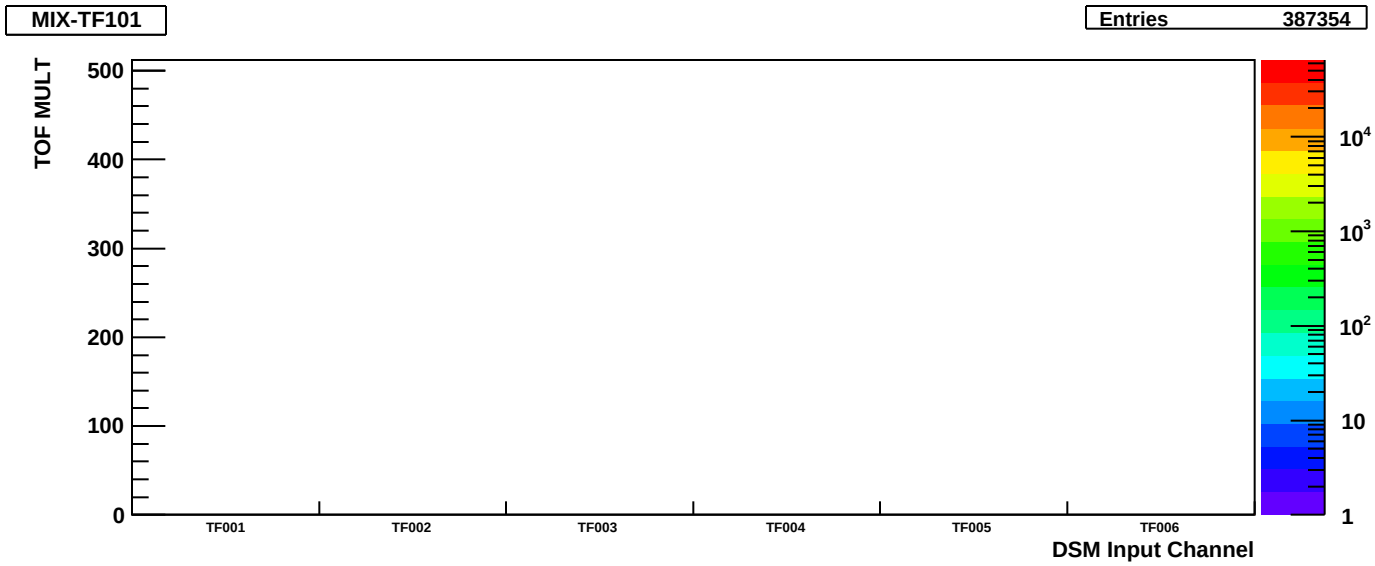

MIX-TF002
Entries 2711478
TOF MULT
TOF tray

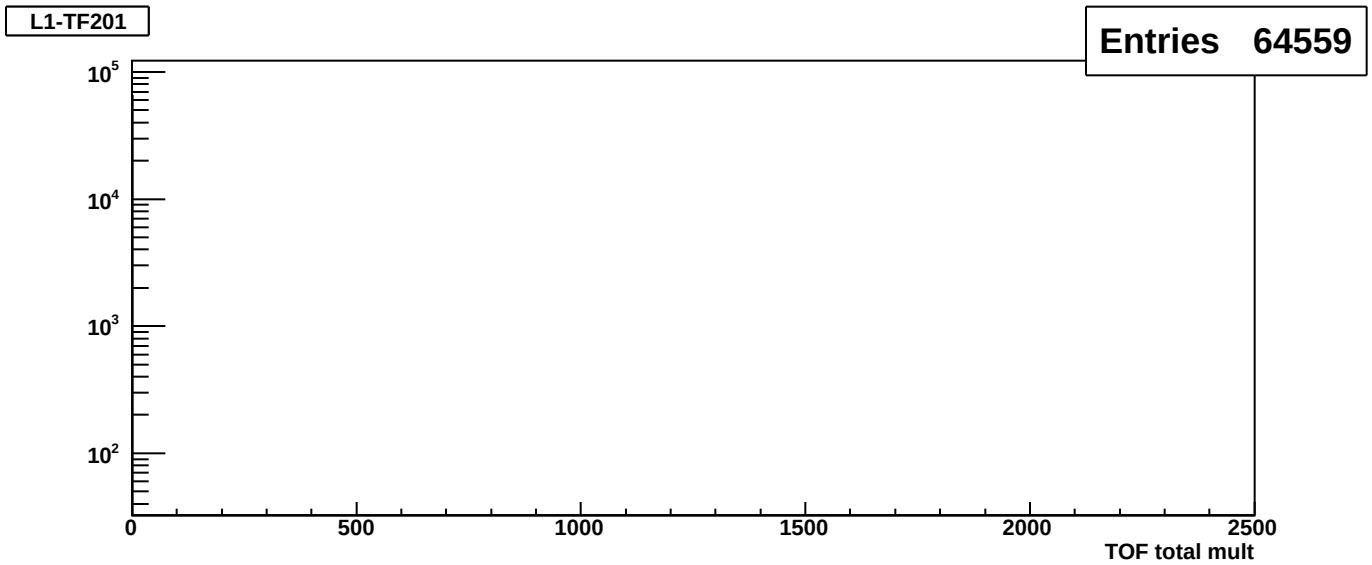

MIX-TF003
Entries 2711478
TOF MULT
TOF tray

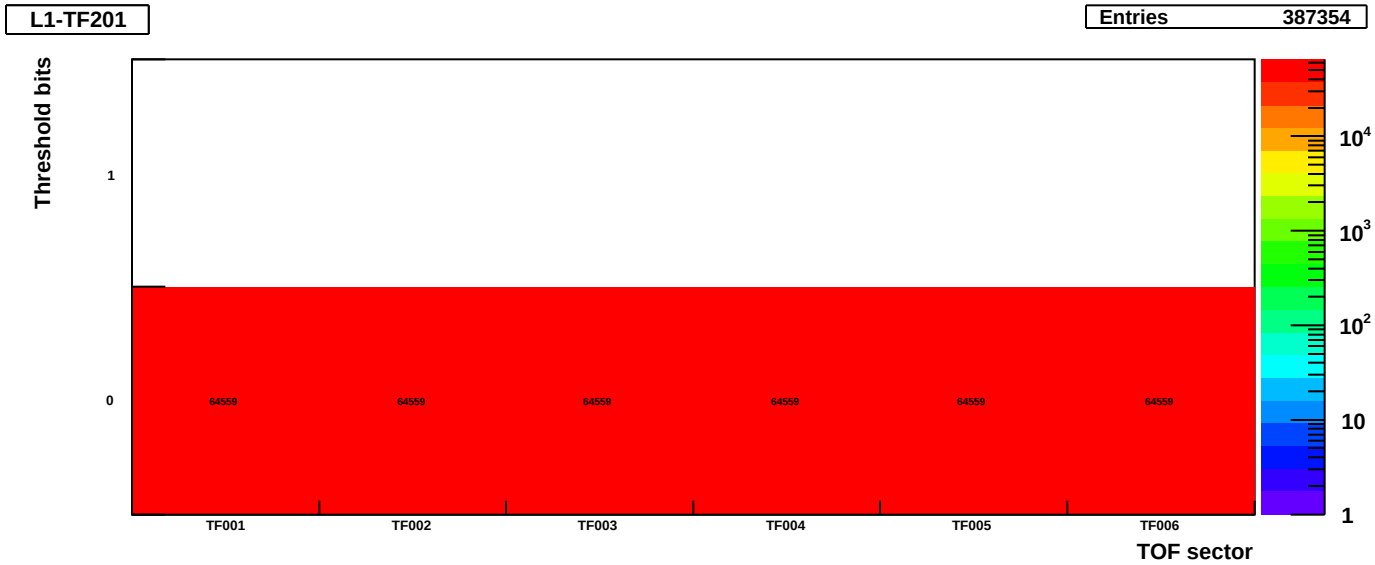

MIX-TF004
Entries 2711478
TOF MULT
TOF tray

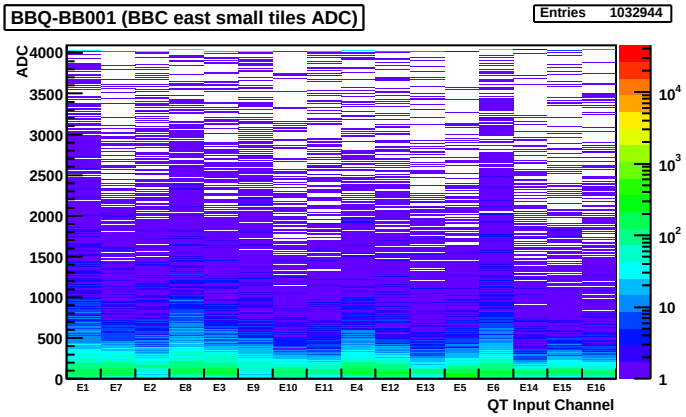

MIX-TF005
Entries 2711478
TOF MULT
TOF tray

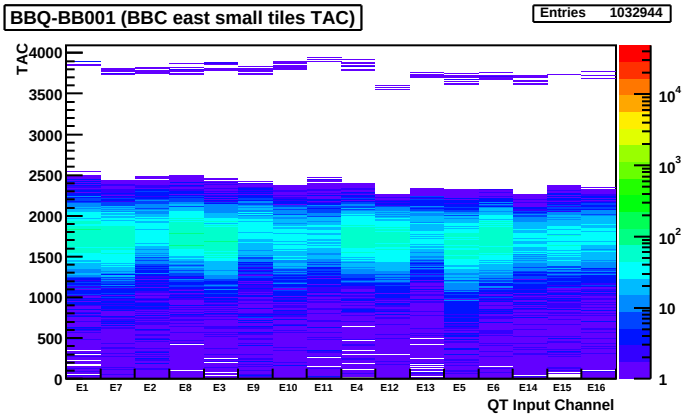

MIX-TF006
Entries 2711478
TOF MULT
TOF tray

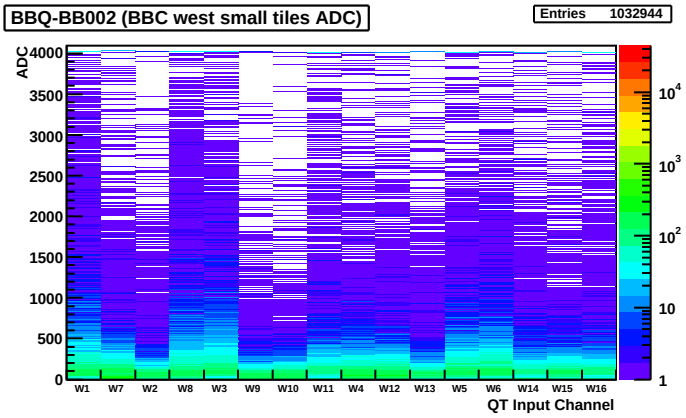

MIX-TF101
Entries 387354
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

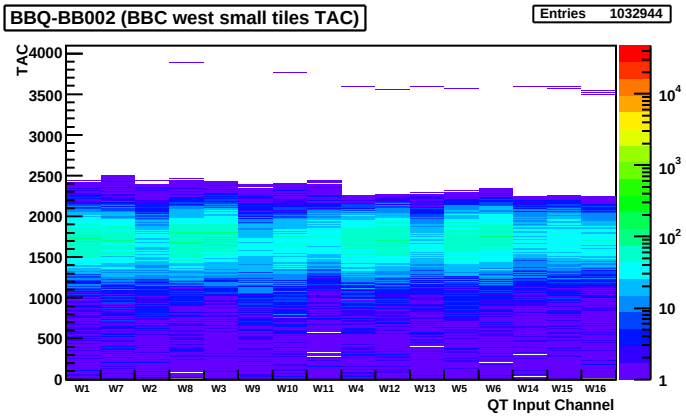

L1-TF201
Entries 64559
10^5
10^4
10^3
10^2
0
500
1000
1500
2000
2500
TOF total mult

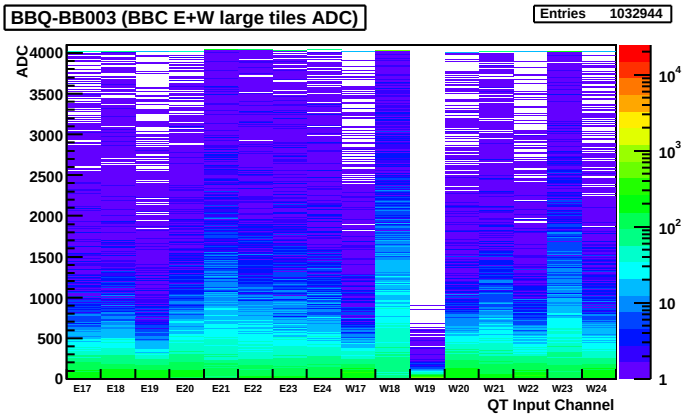

L1-TF201
Entries 387354
Threshold bits
1
0
64559
64559
64559
64559
64559
64559
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4
10^3
10^2
10
1

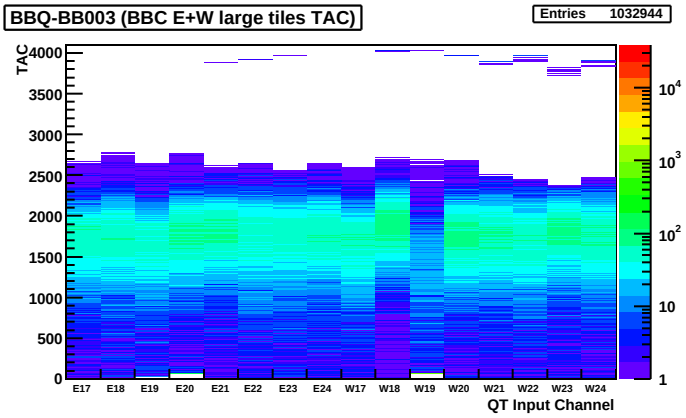

BBQ-BB001 (BBC east small tiles ADC)
Entries 1032944
ADC
QT Input Channel

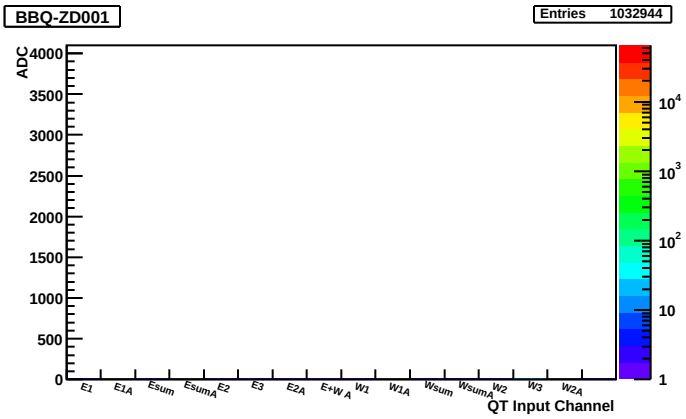

BBQ-BB001 (BBC east small tiles TAC)
Entries 1032944
TAC
QT Input Channel

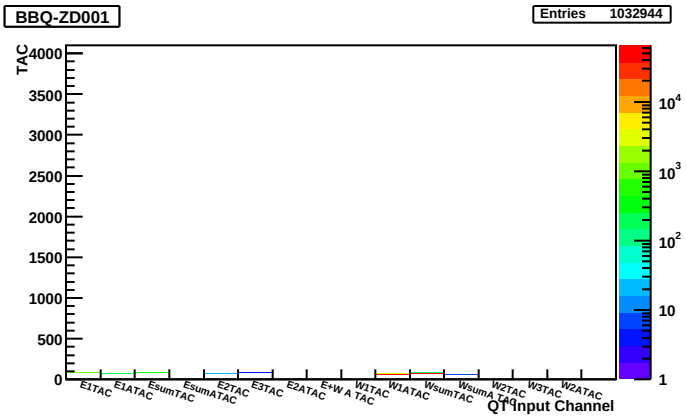

BBQ-BB002 (BBC west small tiles ADC)
Entries 1032944
ADC
QT Input Channel

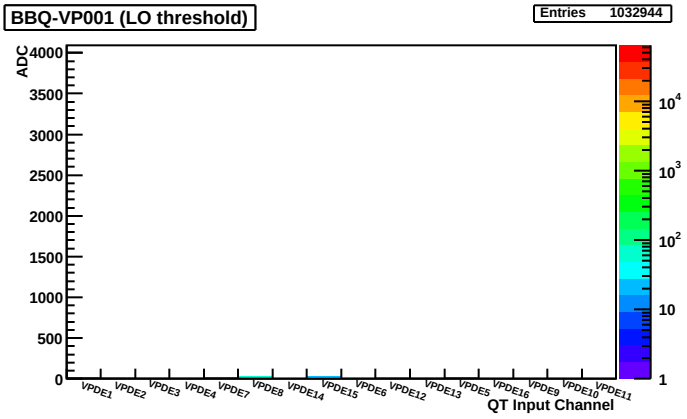

BBQ-BB002 (BBC west small tiles TAC)
Entries 1032944
TAC
QT Input Channel

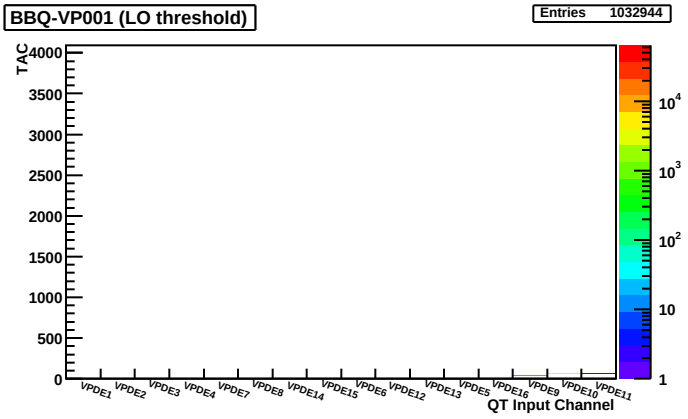

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1032944
ADC
QT Input Channel

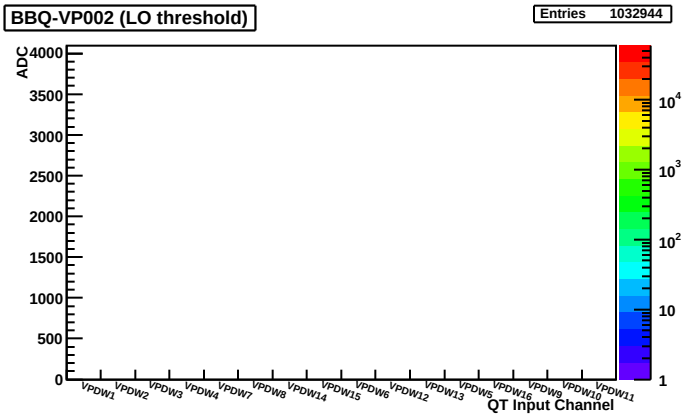

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1032944
TAC
QT Input Channel

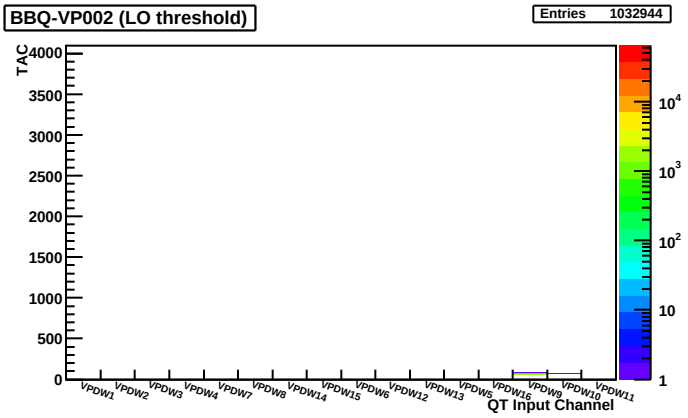

BBQ-ZD001
Entries 1032944
ADC
QT Input Channel

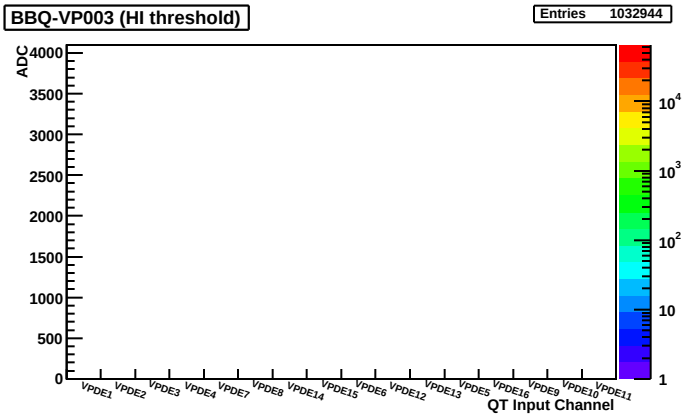

BBQ-ZD001
Entries 1032944
TAC
QT Input Channel

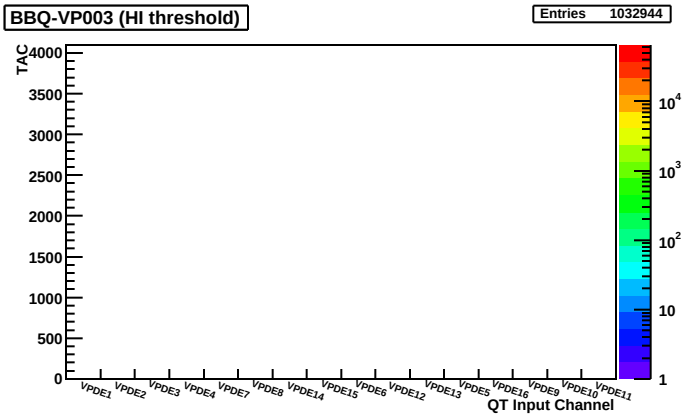

BBQ-VP001 (LO threshold)
Entries 1032944
ADC
QT Input Channel

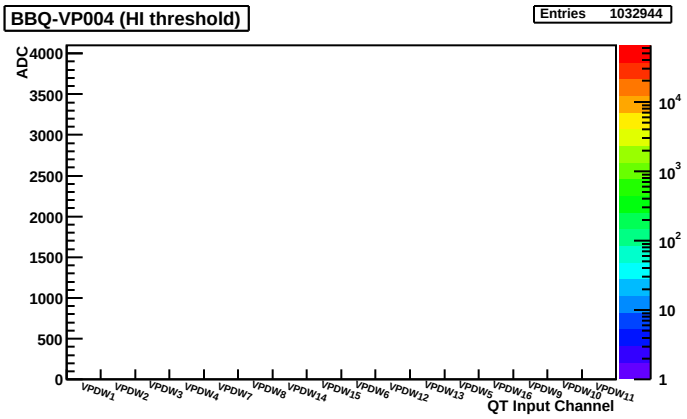

BBQ-VP001 (LO threshold)
Entries 1032944
TAC
QT Input Channel

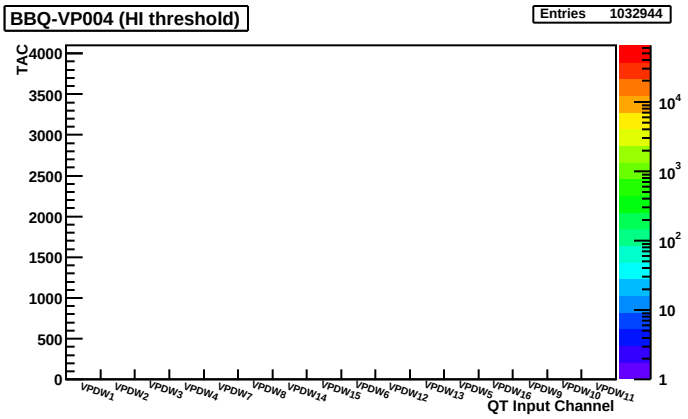

BBQ-VP002 (LO threshold)
Entries 1032944
ADC
QT Input Channel

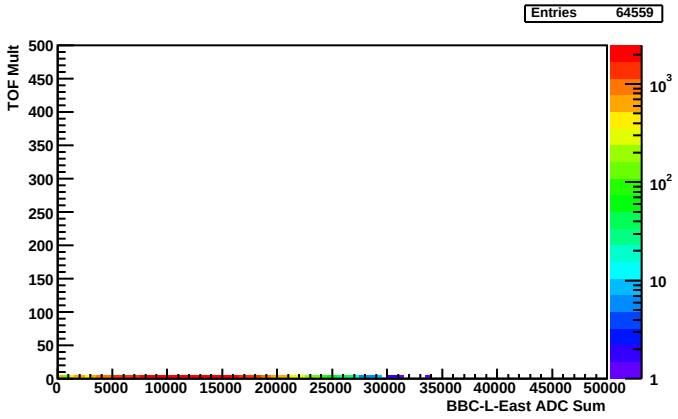

BBQ-VP002 (LO threshold)
Entries 1032944
TAC
QT Input Channel

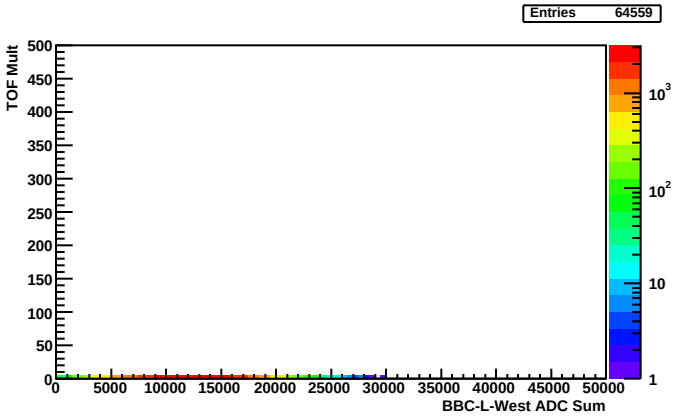

BBQ-VP003 (HI threshold)
Entries 1032944
ADC
QT Input Channel

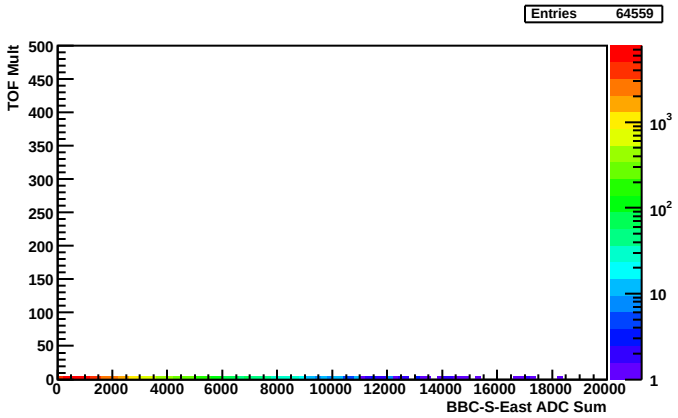

BBQ-VP003 (HI threshold)
Entries 1032944
TAC
QT Input Channel

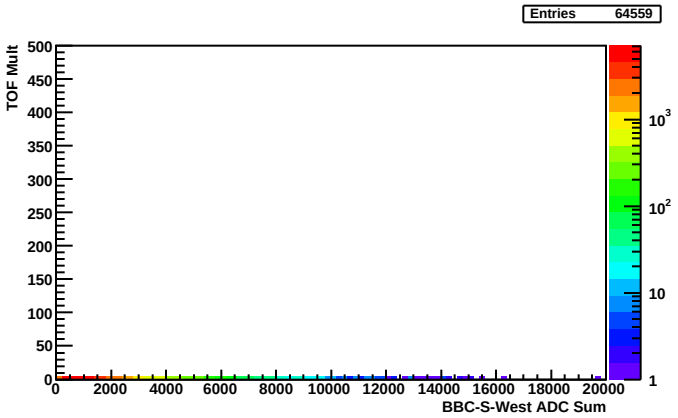

BBQ-VP004 (HI threshold)
Entries 1032944
ADC
QT Input Channel

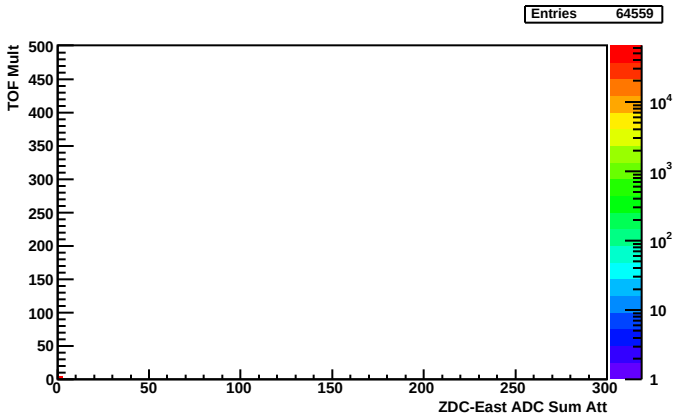

BBQ-VP004 (HI threshold)
Entries 1032944
TAC
QT Input Channel

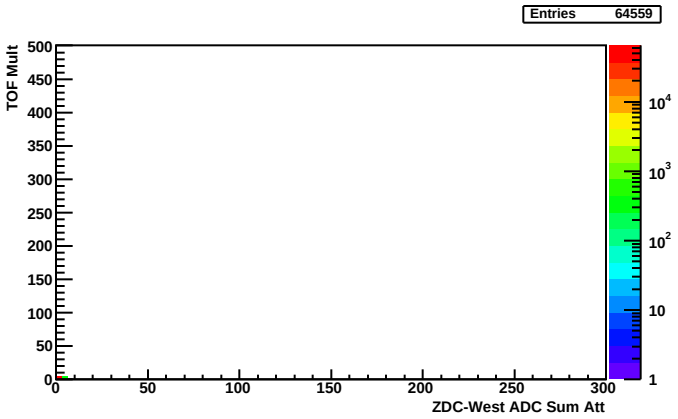

Entries 64559
TOF Mult
BBC-L-East ADC Sum

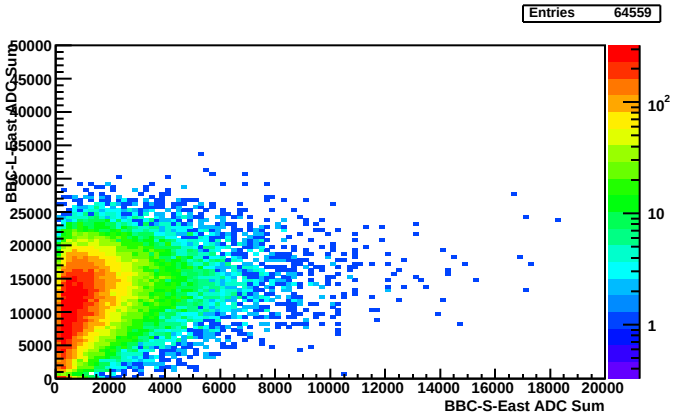

Entries 64559
TOF Mult
BBC-L-West ADC Sum

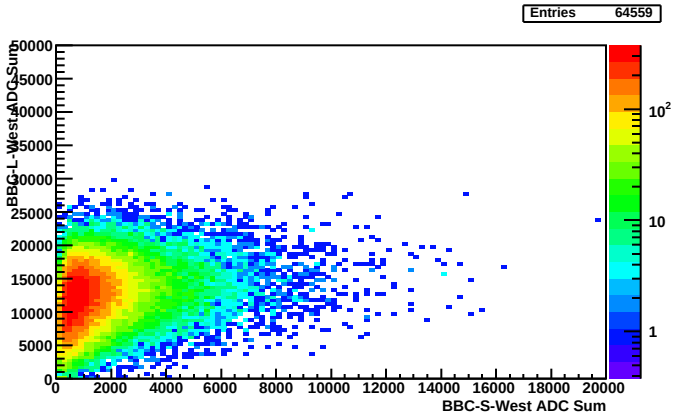

Entries 64559
TOF Mult
BBC-S-East ADC Sum

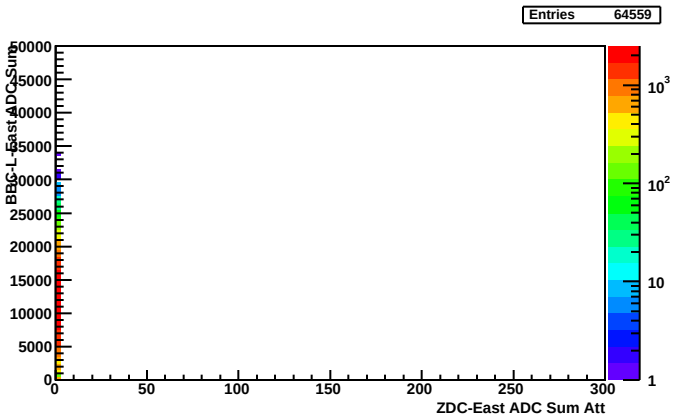

Entries 64559
TOF Mult
BBC-S-West ADC Sum

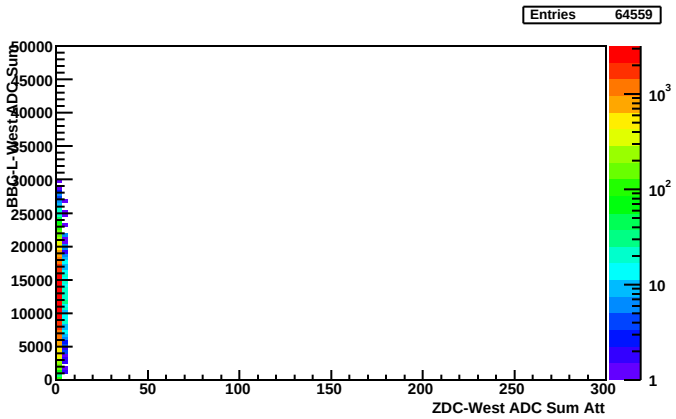

Entries 64559
TOF Mult
ZDC-East ADC Sum Att

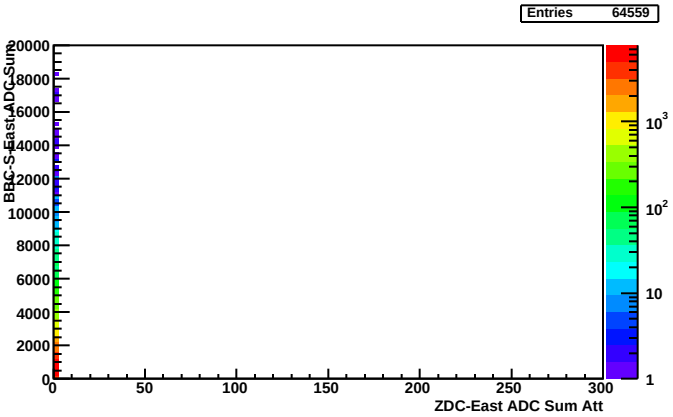

Entries 64559
TOF Mult
ZDC-West ADC Sum Att

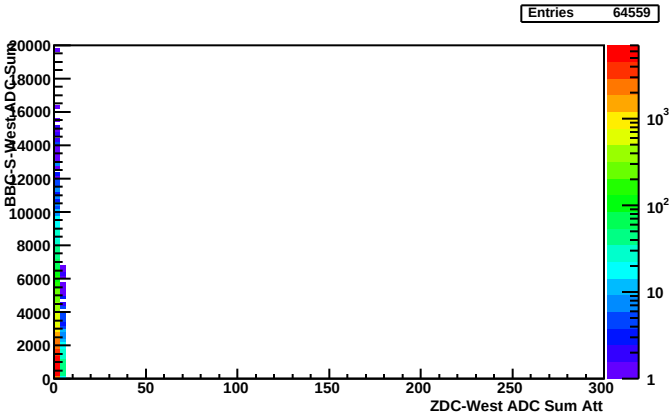

Entries 64559
BBC-L-East ADC Sum
BBC-S-East ADC Sum

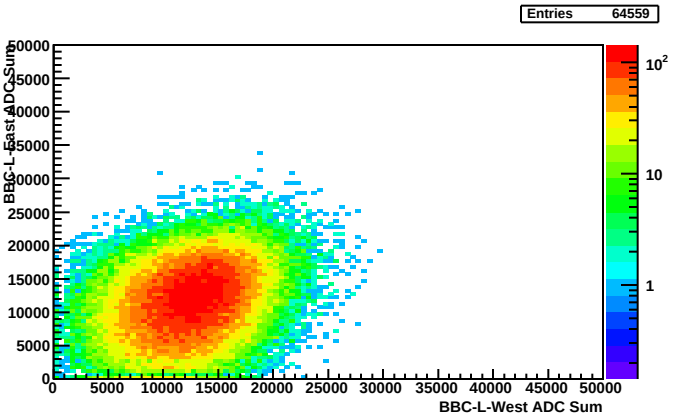

Entries 64559
BBC-L-West ADC Sum
BBC-S-West ADC Sum

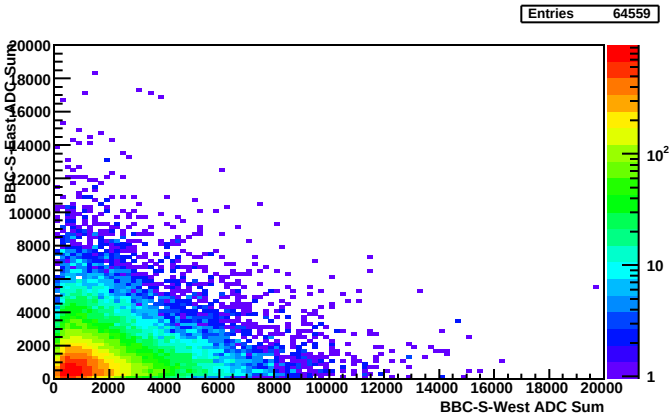

Entries 64559
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

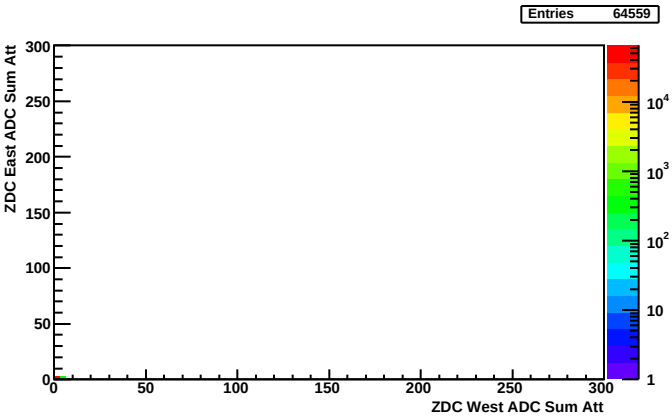

Entries 64559
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

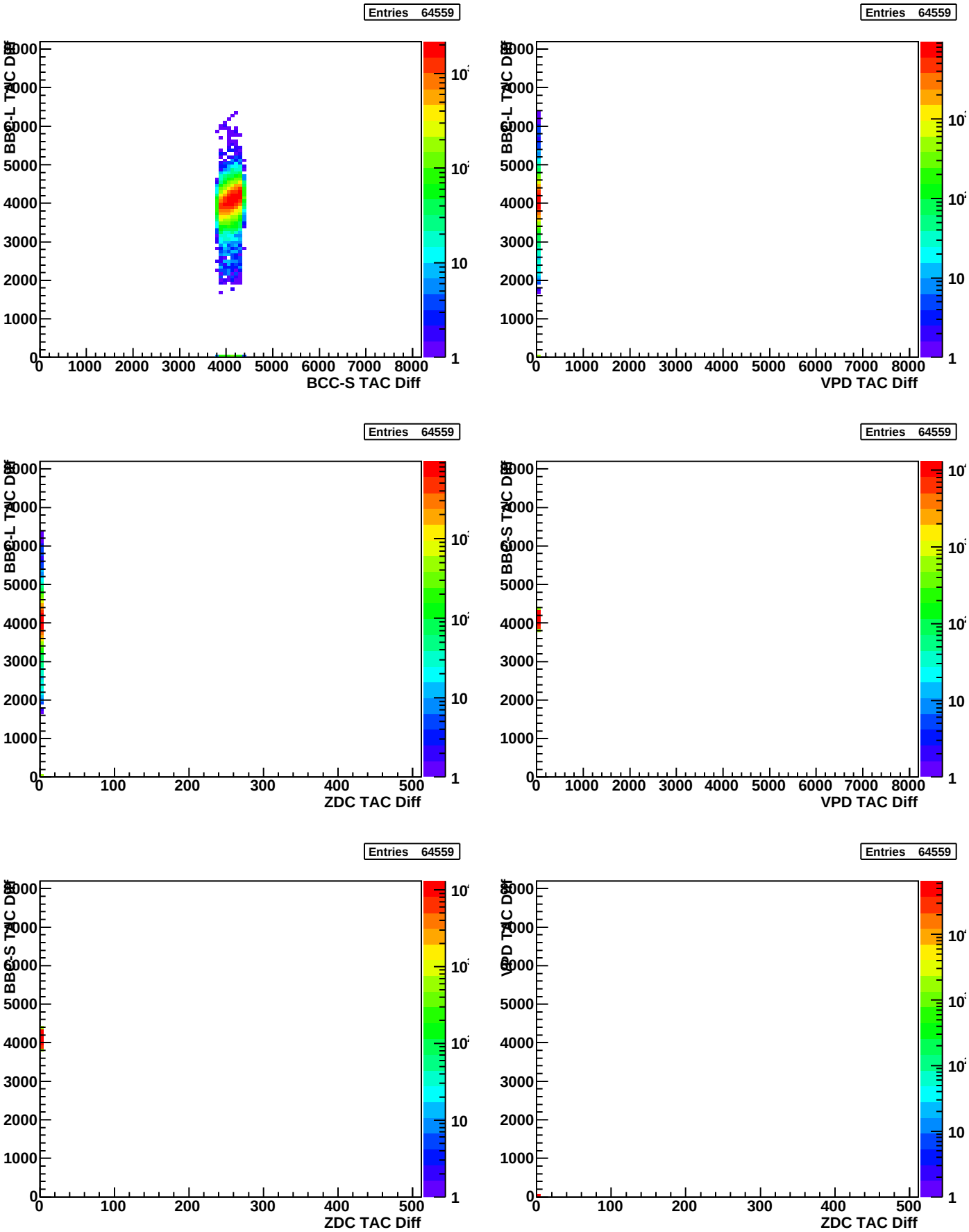

Entries 64559
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

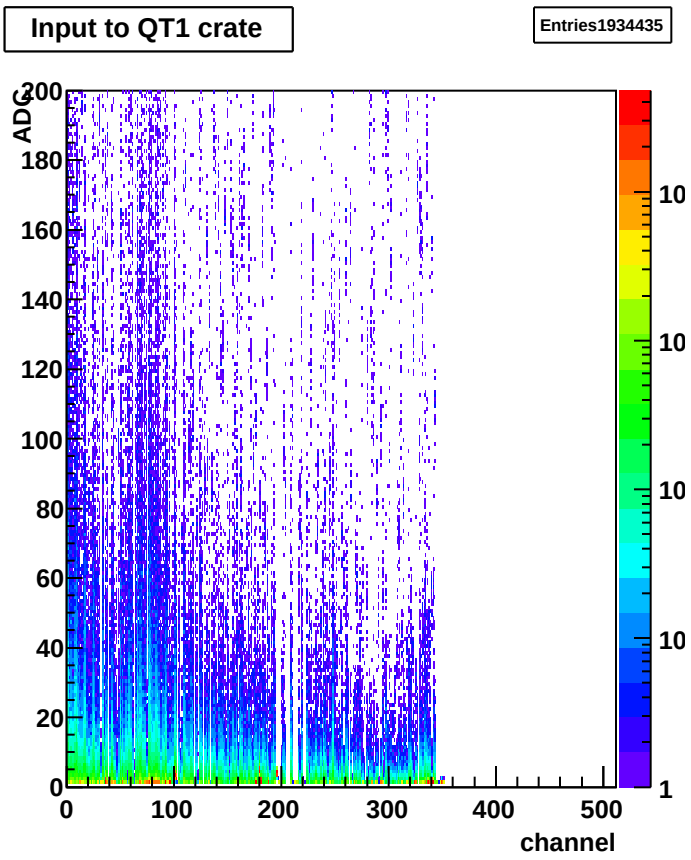

Entries 64559
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

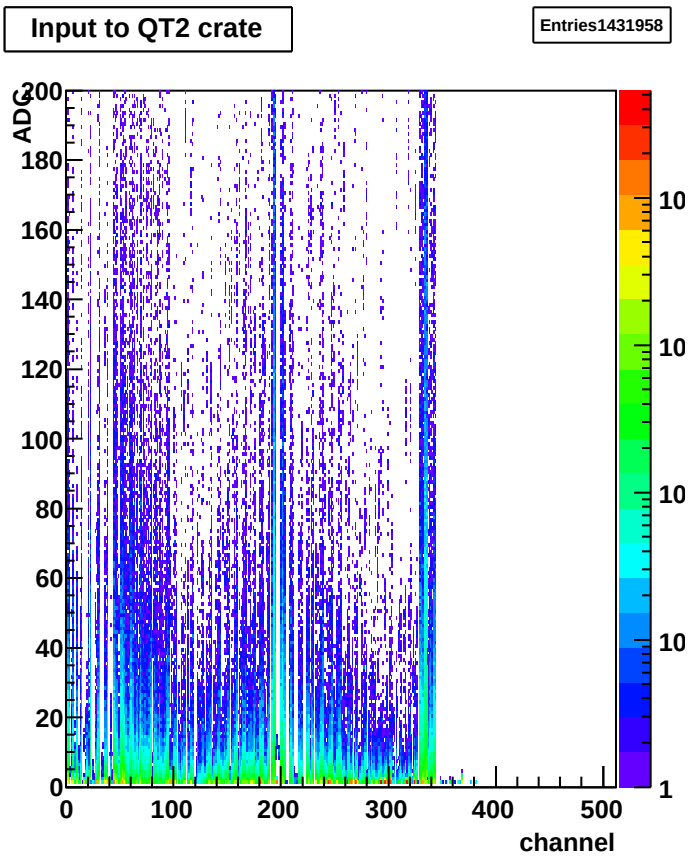

Entries 64559
BBC-L-East ADC Sum
BBC-L-West ADC Sum

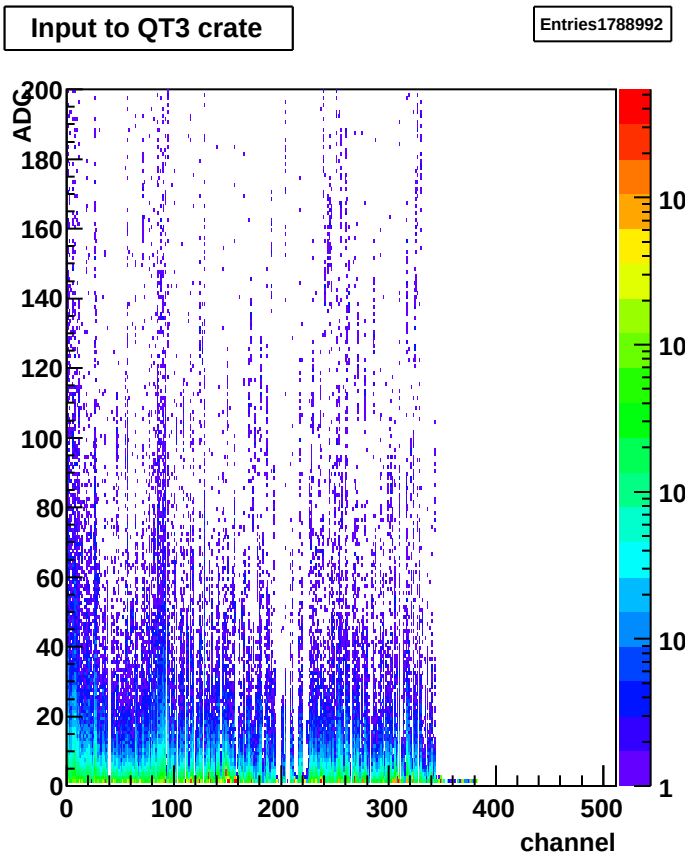

Entries 64559
BBC-S-East ADC Sum
BBC-S-West ADC Sum

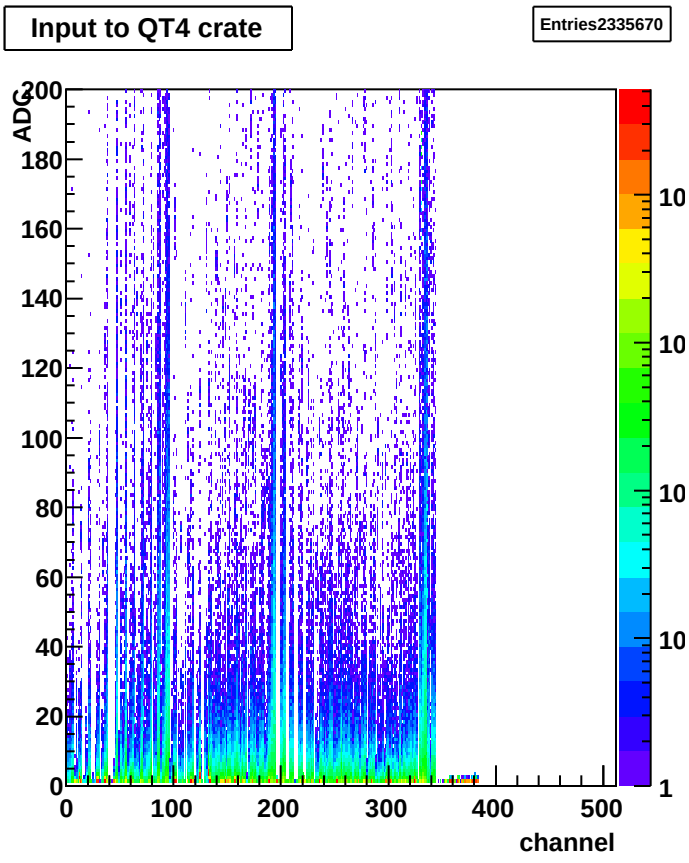

Entries 64559
ZDC East ADC Sum Att
ZDC West ADC Sum Att

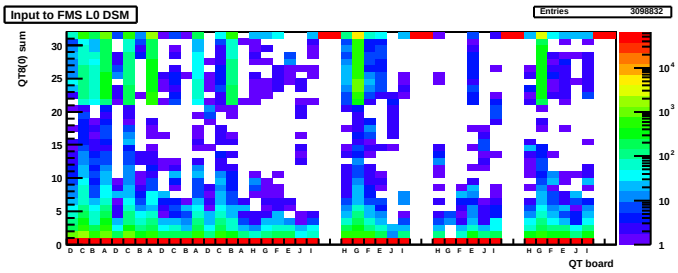

Entries 64559
BBC-L TAC Diff
BCC-S TAC Diff
Entries 64559
BBC-L TAC Diff
VPD TAC Diff
Entries 64559
BBC-L TAC Diff
ZDC TAC Diff
Entries 64559
BBC-S TAC Diff
VPD TAC Diff
Entries 64559
BBC-S TAC Diff
ZDC TAC Diff
Entries 64559
VPD TAC Diff
ZDC TAC Diff

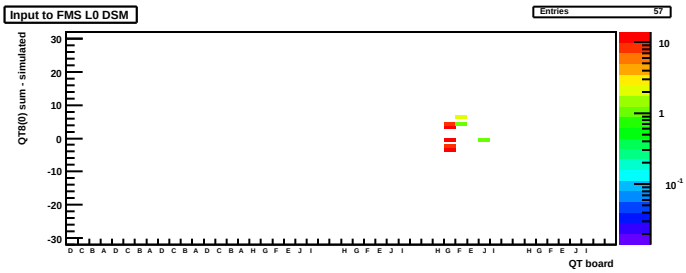

Input to QT1 crate
Entries1934435
ADC
channel

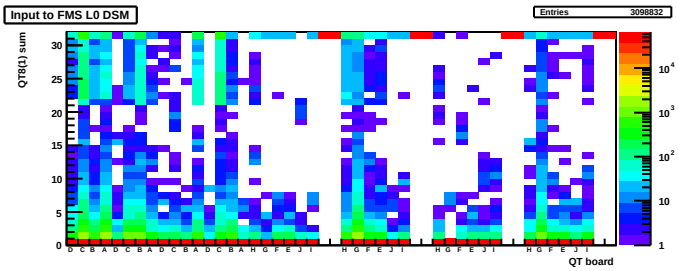

Input to QT2 crate
Entries1431958
ADC
channel

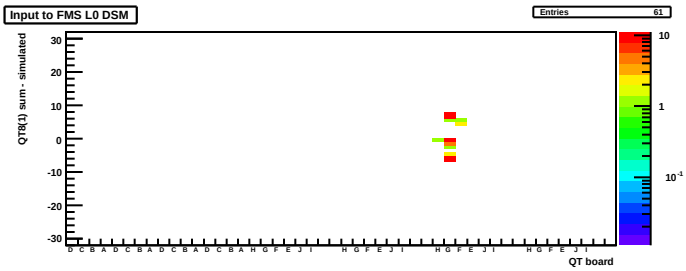

Input to QT3 crate
Entries1788992
ADC
channel

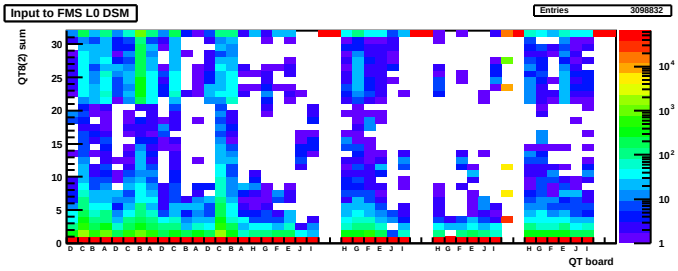

Input to QT4 crate
Entries2335670
ADC
channel

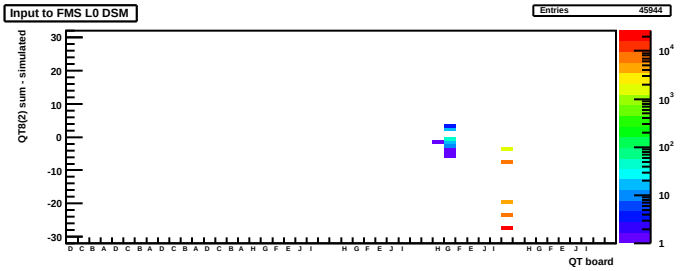

Input to FMS L0 DSM
Entries 3098832
QT8(0) sum
QT board

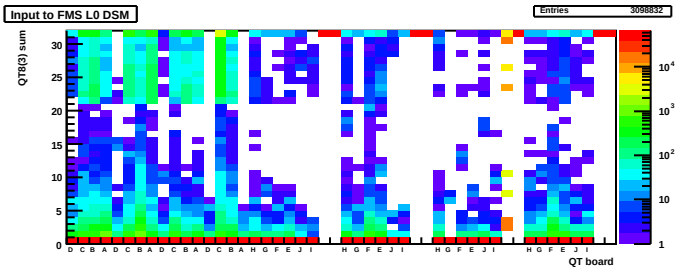

Input to FMS L0 DSM
Entries 57
QT8(0) sum - simulated
QT board

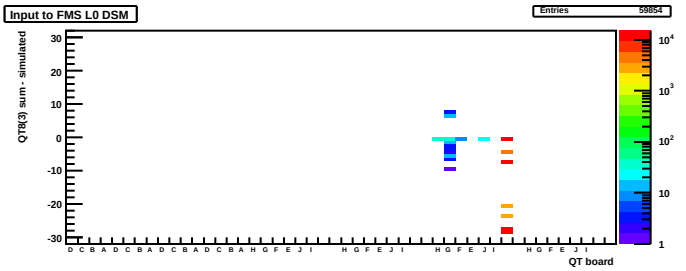

Input to FMS L0 DSM
Entries 3098832
QT8(1) sum
QT board

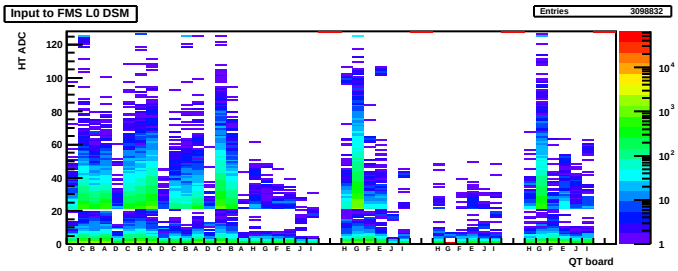

Input to FMS L0 DSM
Entries 61
QT8(1) sum - simulated
QT board

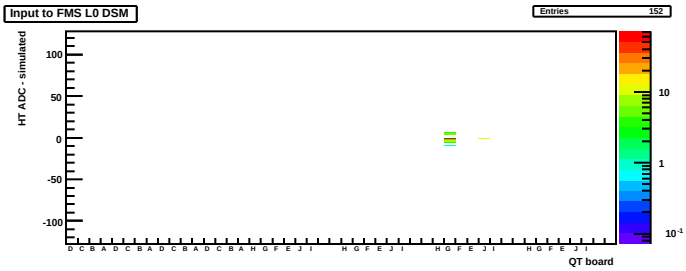

Input to FMS L0 DSM
Entries 3098832
QT8(2) sum
QT board

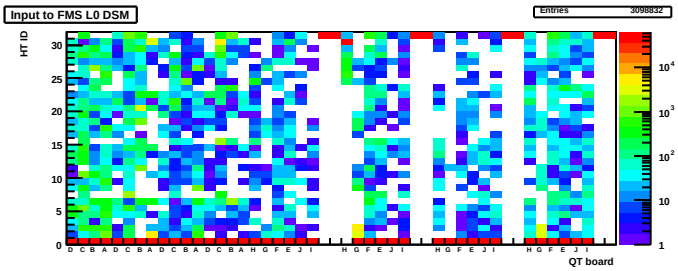

Input to FMS L0 DSM
Entries 45944
QT8(2) sum - simulated
QT board

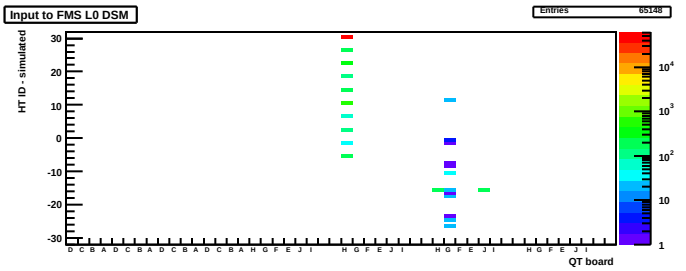

Input to FMS L0 DSM
Entries 3098832
QT8(3) sum
QT board

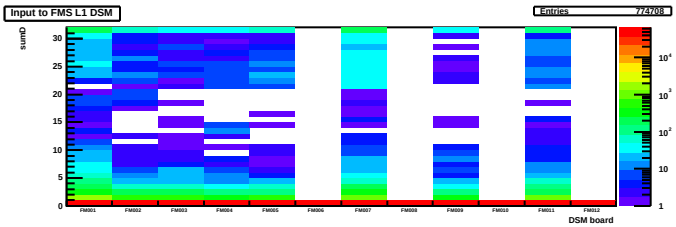

Input to FMS L0 DSM
Entries 59854
QT8(3) sum - simulated
QT board

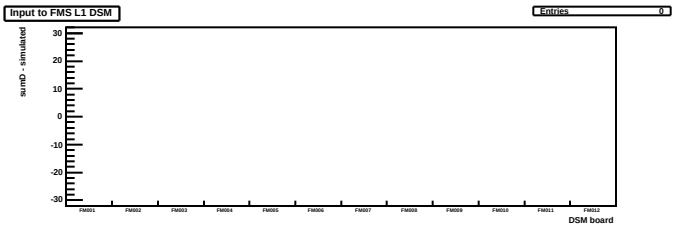

Input to FMS L0 DSM
Entries 3098832
HT ADC
QT board

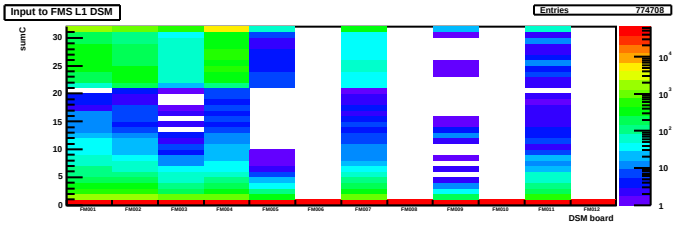

Input to FMS L0 DSM
Entries 152
HT ADC - simulated
QT board

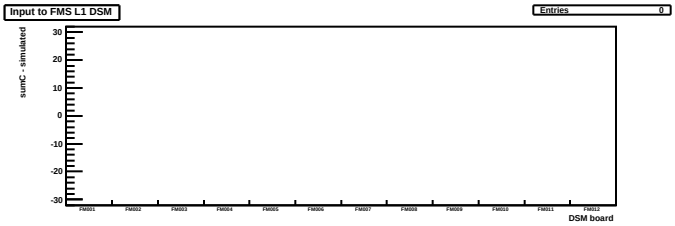

Input to FMS L0 DSM
Entries 3098832
HT ID
QT board

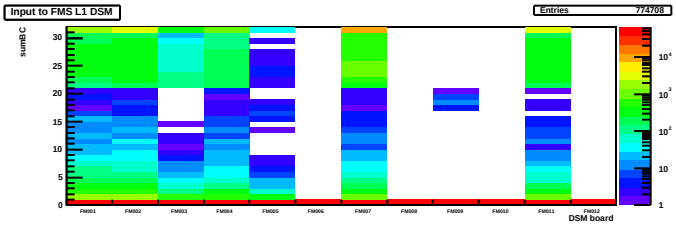

Input to FMS L0 DSM
Entries 65148
HT ID - simulated
QT board

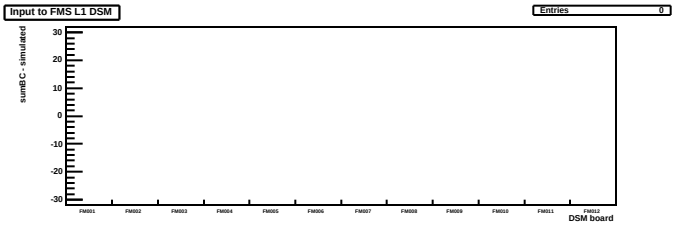

Input to FMS L1 DSM
Entries 774708
sumD
DSM board

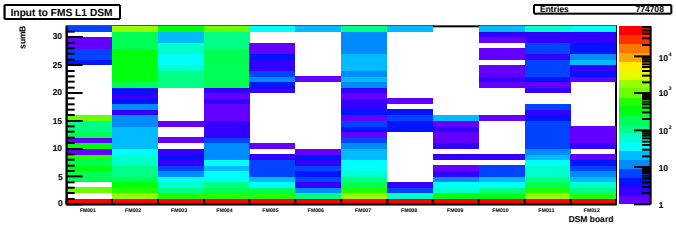

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

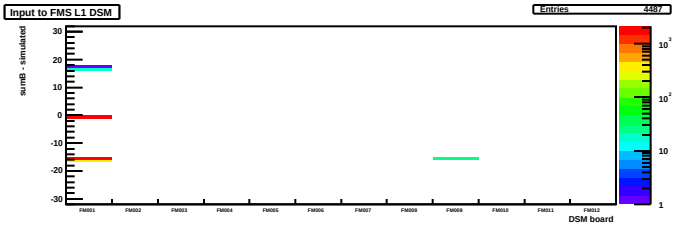

Input to FMS L1 DSM
Entries 774708
sumC
DSM board

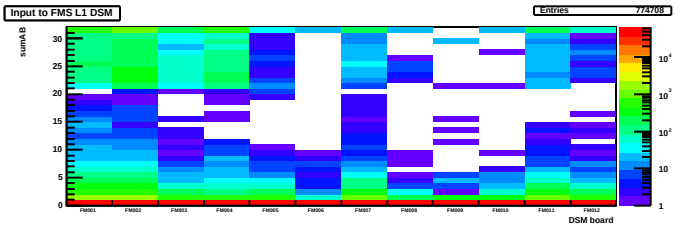

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

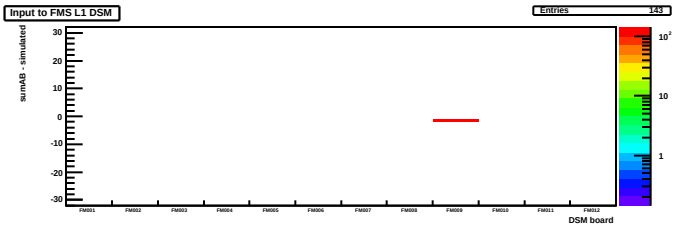

Input to FMS L1 DSM
Entries 774708
sumBC
DSM board

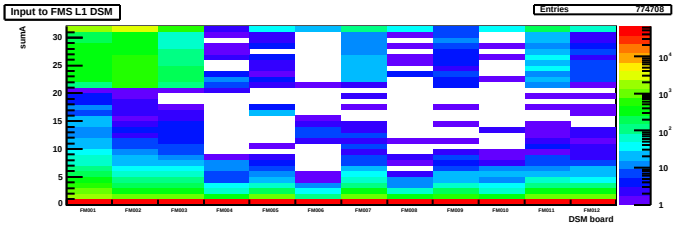

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

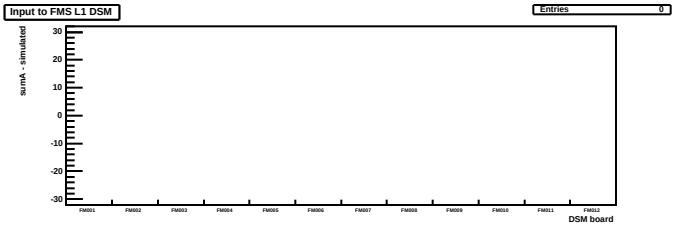

Input to FMS L1 DSM
Entries 774708
sumB
DSM board

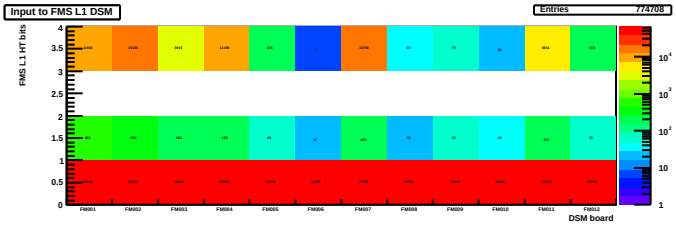

Input to FMS L1 DSM
Entries 4487
sumB - simulated
DSM board

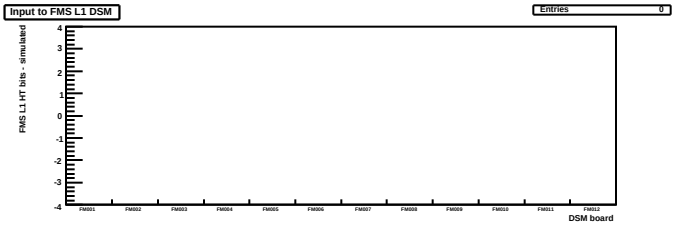

Input to FMS L1 DSM
Entries 774708
sumAB
DSM board

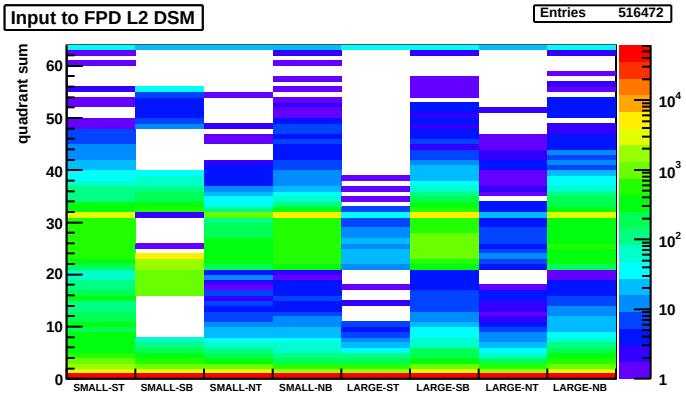

Input to FMS L1 DSM
Entries 143
sumAB - simulated
DSM board

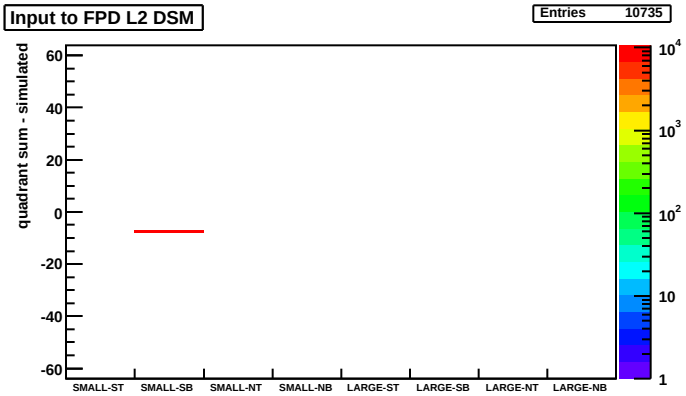

Input to FMS L1 DSM
Entries 774708
sumA
DSM board

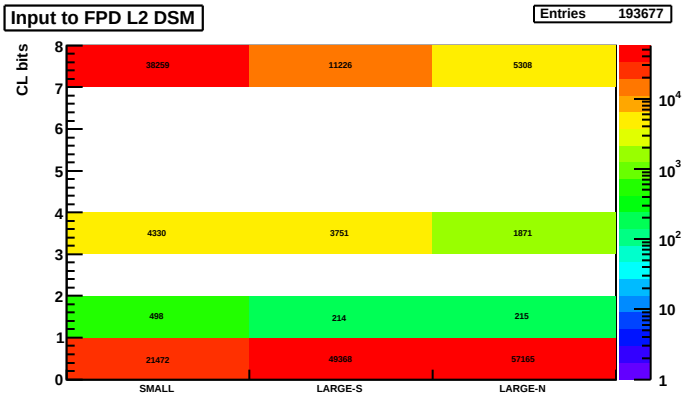

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

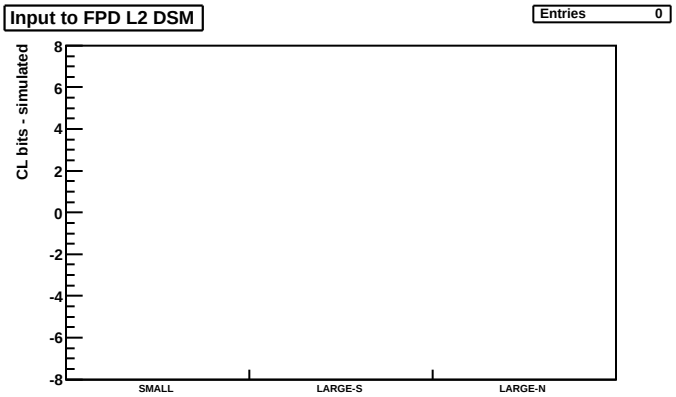

Input to FMS L1 DSM
Entries 774708
FMS L1 HT bits
DSM board

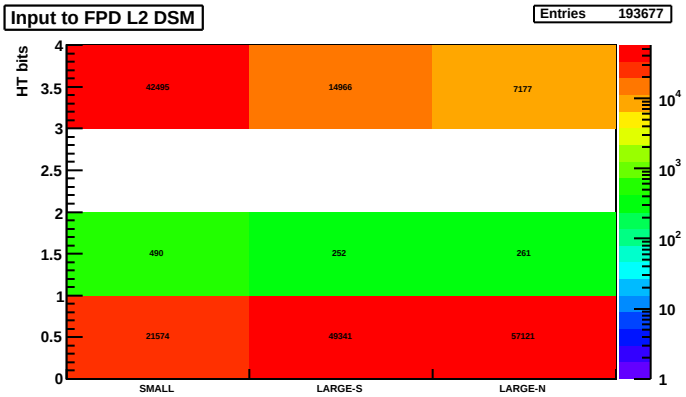

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

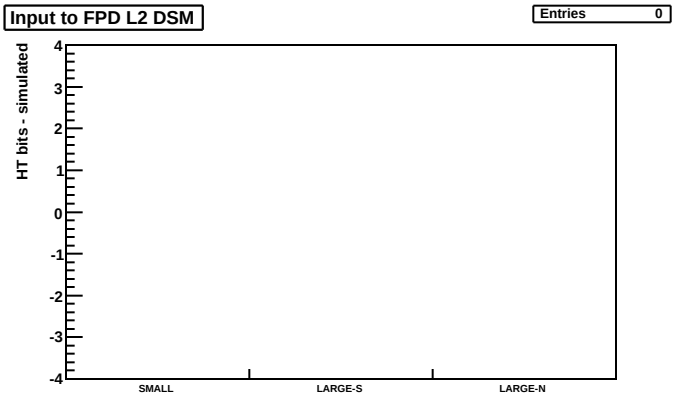

Input to FPD L2 DSM
Entries 516472
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

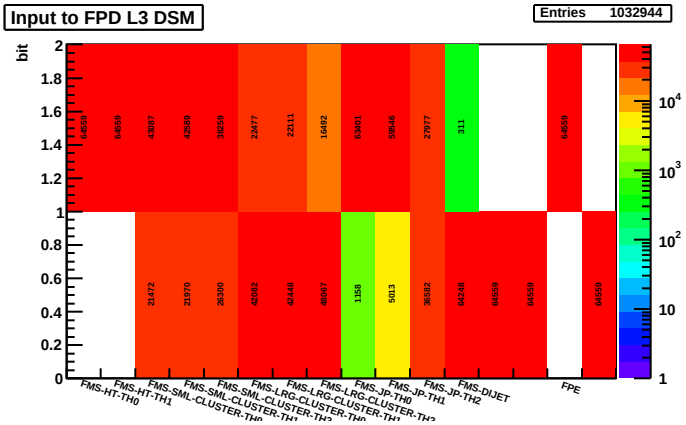

Input to FPD L2 DSM
Entries 10735
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

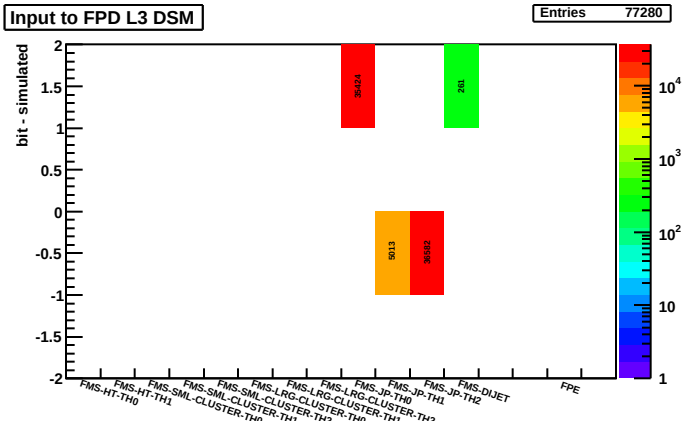

Input to FPD L2 DSM
Entries 193677
CL bits
38259
11226
5308
4330
3751
1871
498
214
215
21472
49368
57165
SMALL
LARGE-S
LARGE-N

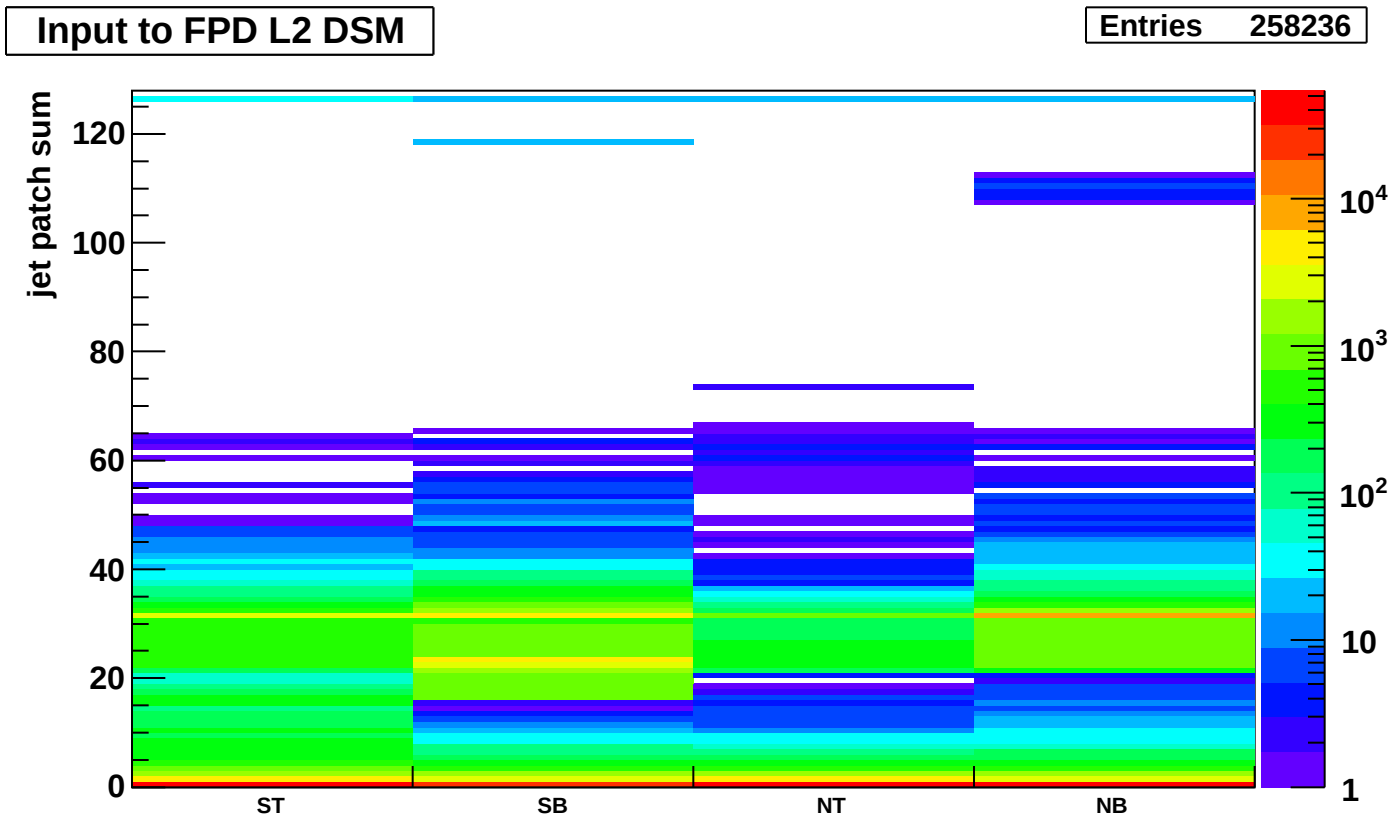

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

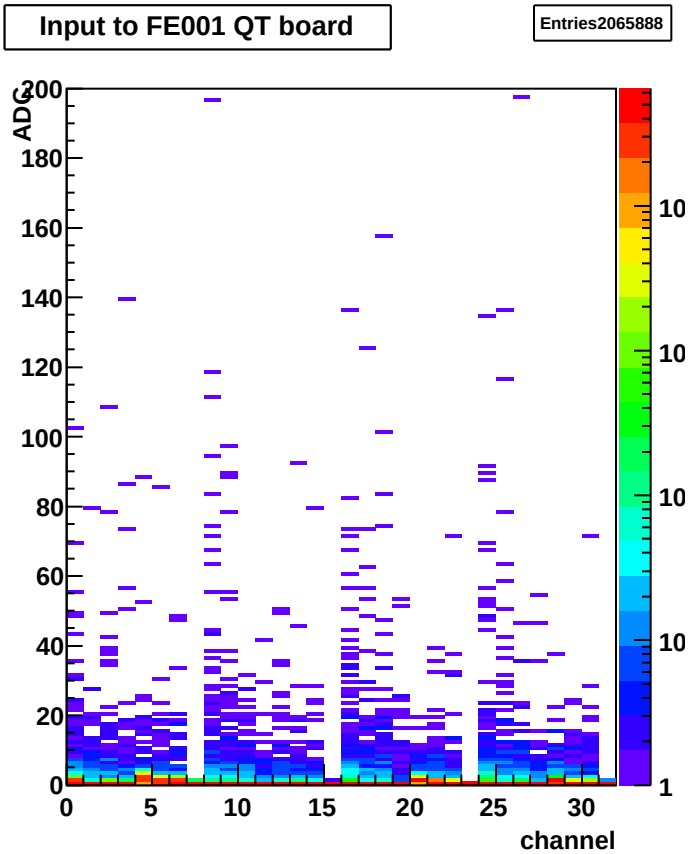

Input to FPD L2 DSM
Entries 193677
HT bits
42495
14966
7177
490
252
261
21574
49341
57121
SMALL
LARGE-S
LARGE-N

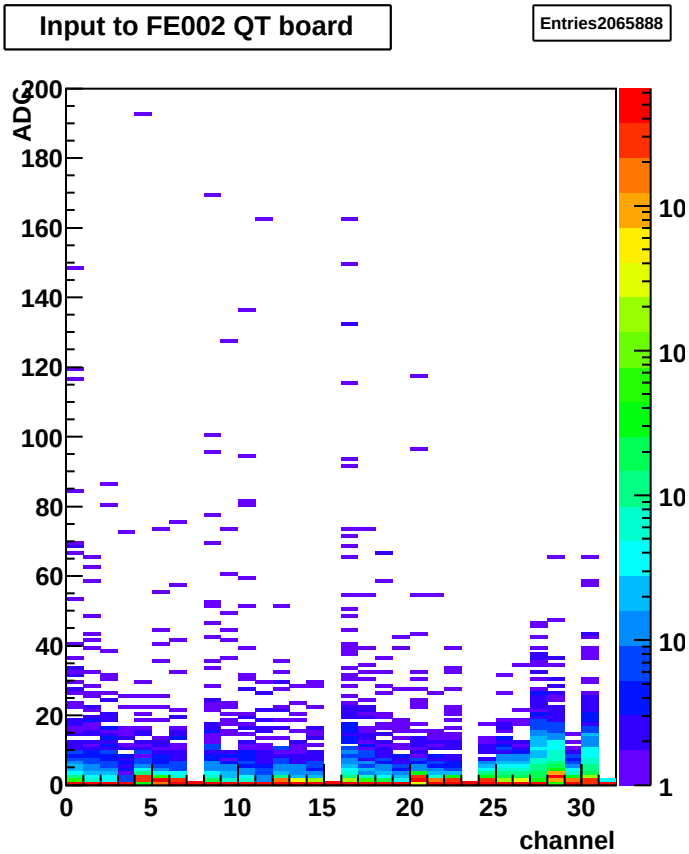

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

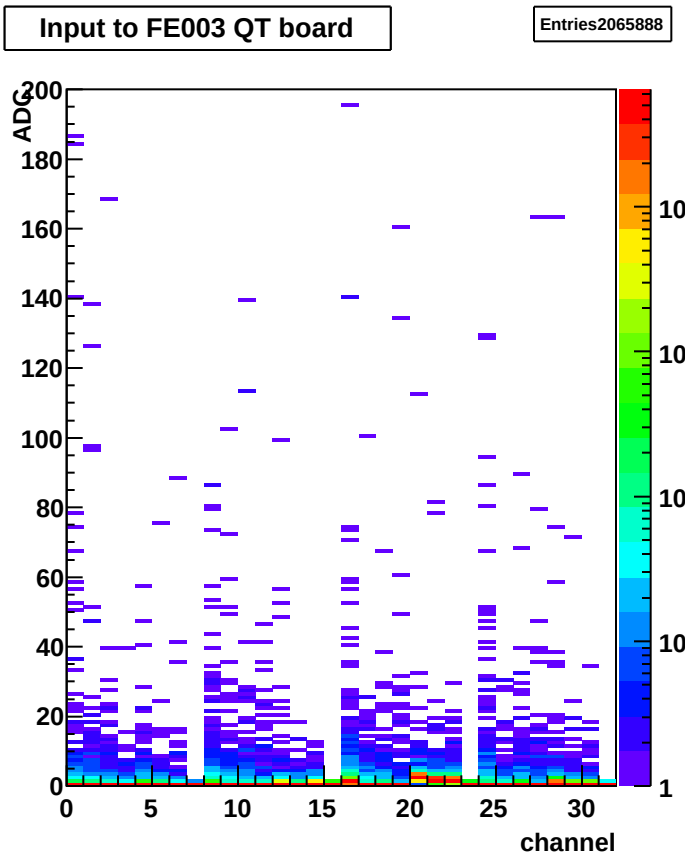

Input to FPD L3 DSM
Entries 1032944
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

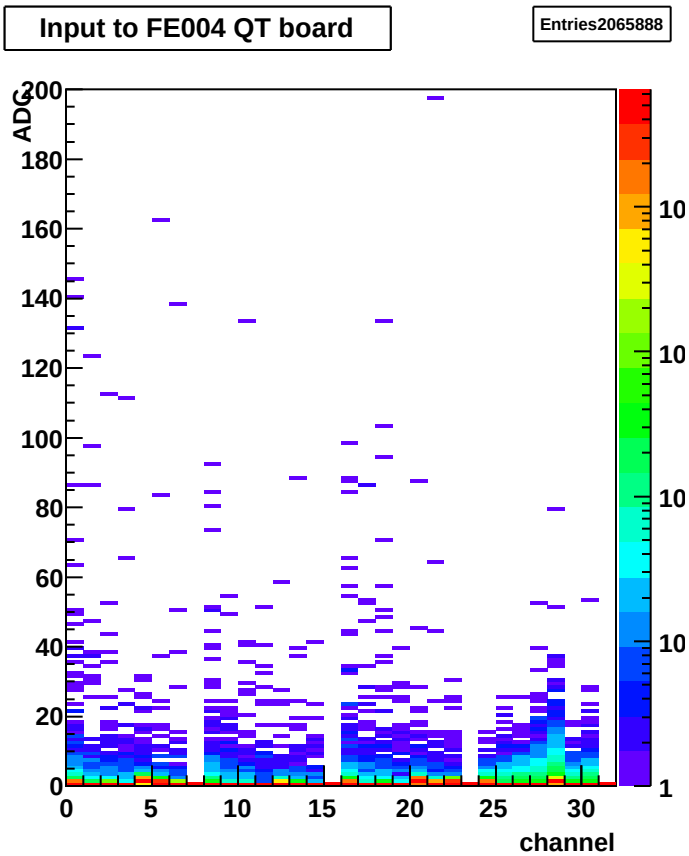

Input to FPD L3 DSM
Entries 77280
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

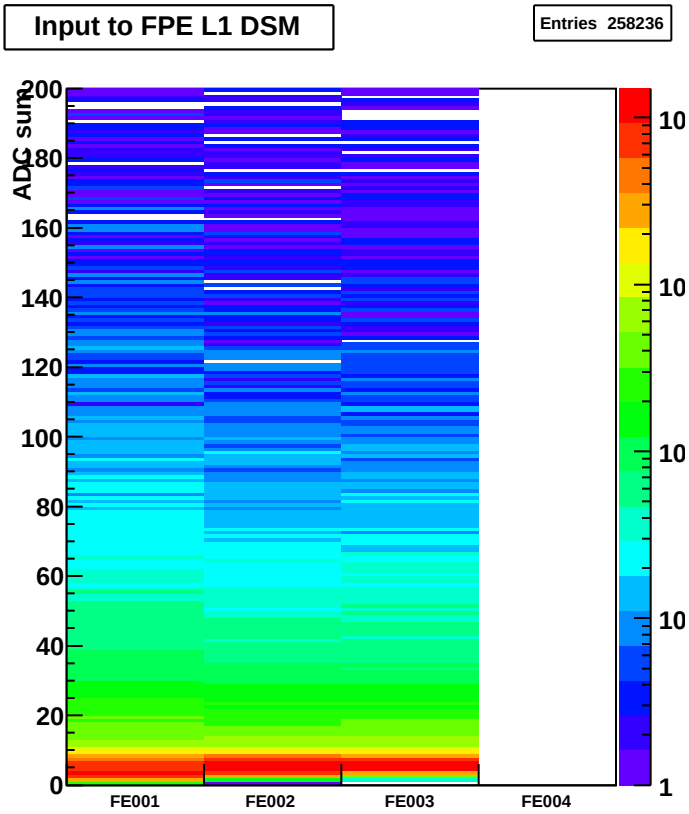

Input to FPD L2 DSM
Entries 258236
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

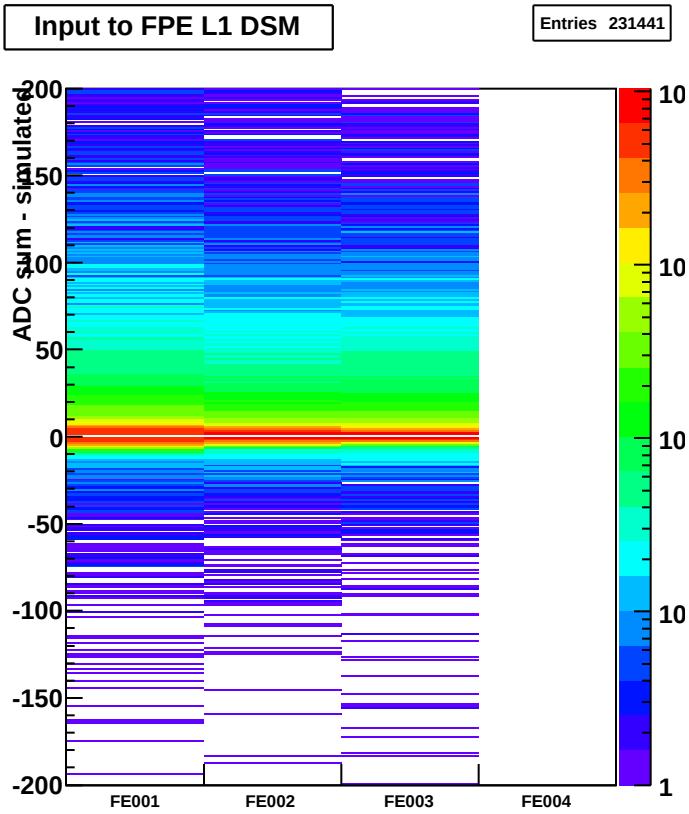

Input to FE001 QT board
Entries2065888
ADC
channel

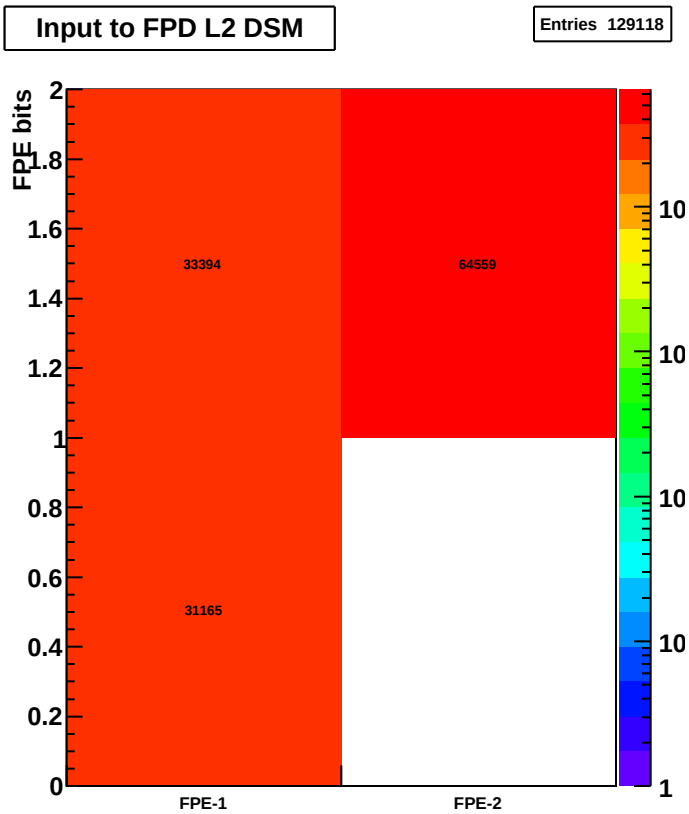

Input to FE002 QT board
Entries2065888
ADC
channel

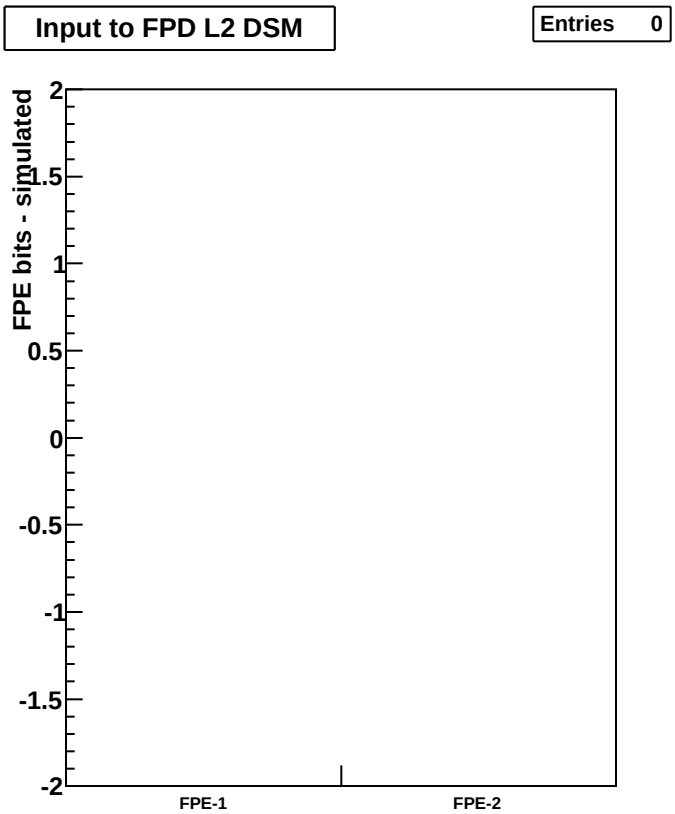

Input to FE003 QT board
Entries2065888
ADC
channel


Input to FE004 QT board
Entries2065888
ADC
channel


Input to FPE L1 DSM
Entries 258236
ADC sum
FE001
FE002
FE003
FE004


Input to FPE L1 DSM
Entries 231441
ADC sum - simulated
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries 129118
FPE bits
33394
64559
31165
FPE-1
FPE-2


Input to FPD L2 DSM
Entries 0
FPE bits - simulated
FPE-1
FPE-2