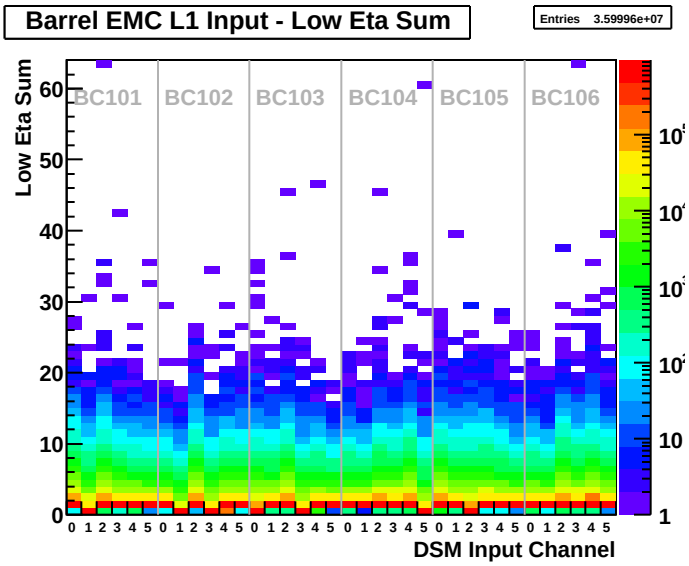
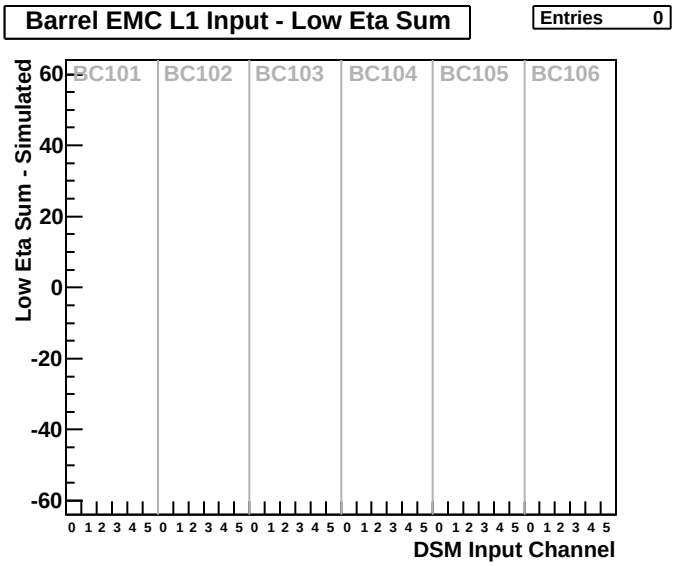
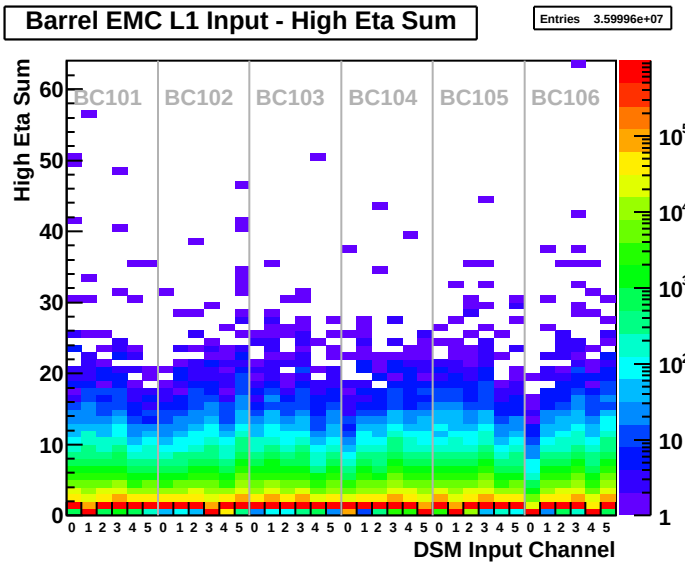
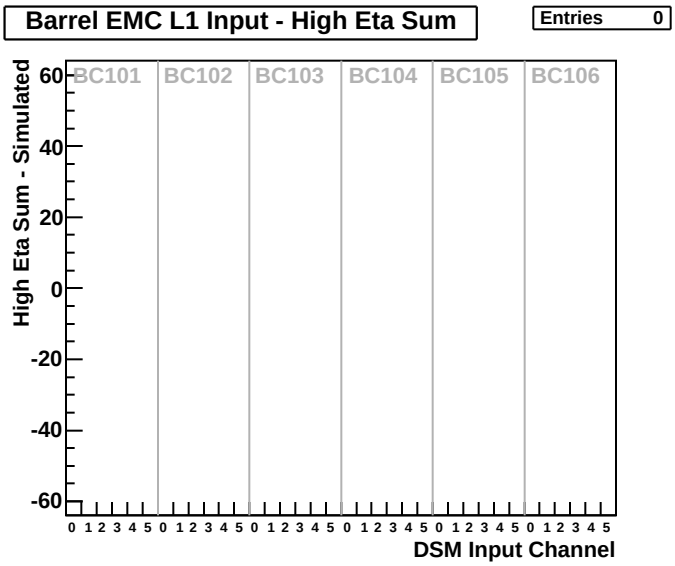
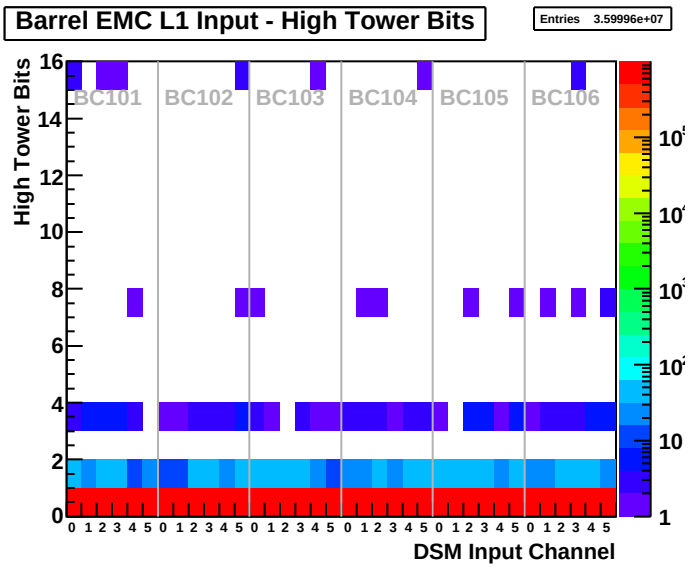
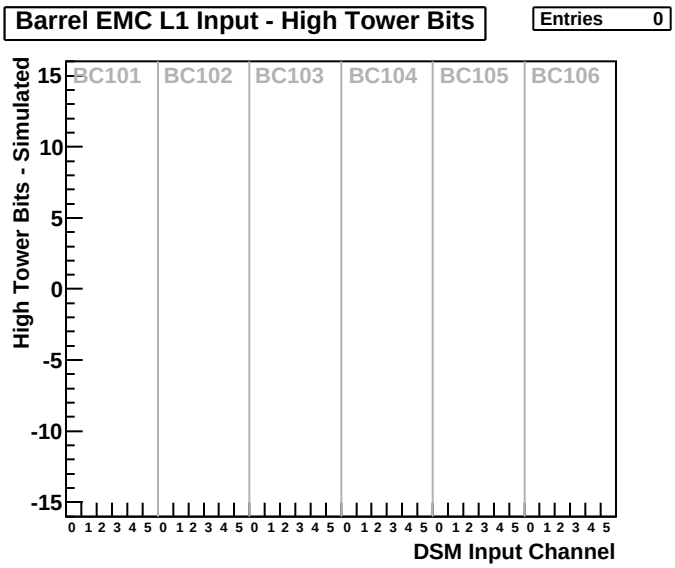

Barrel EMC L1 Input - Low Eta Sum
Entries 3.59996e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

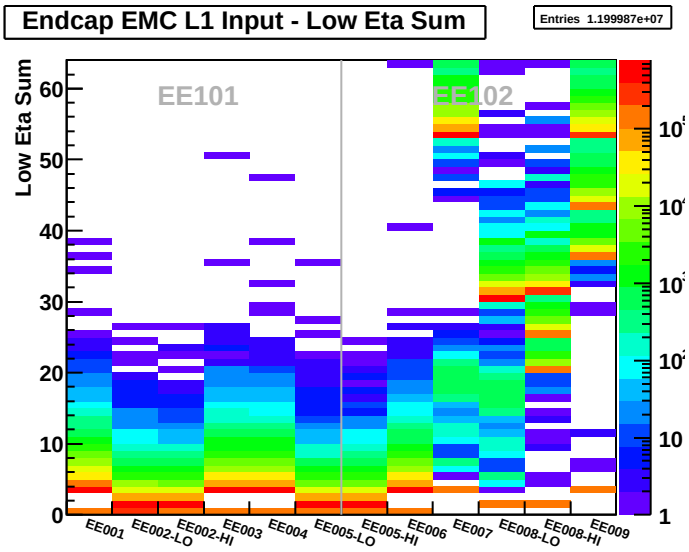

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

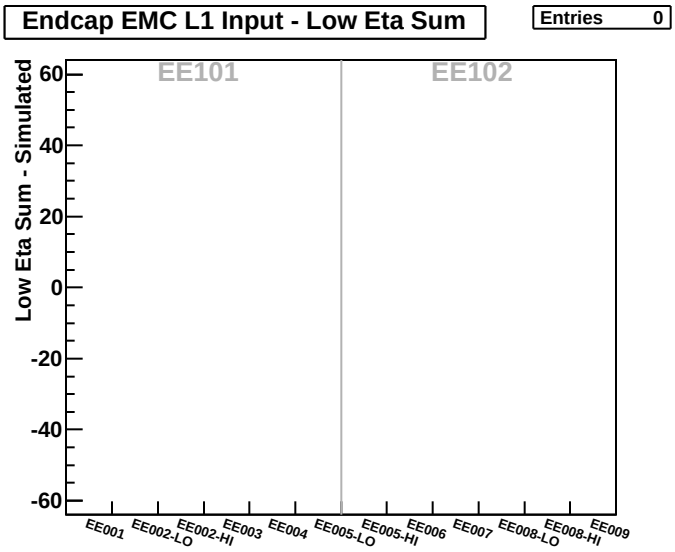

Barrel EMC L1 Input - High Eta Sum
Entries 3.59996e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

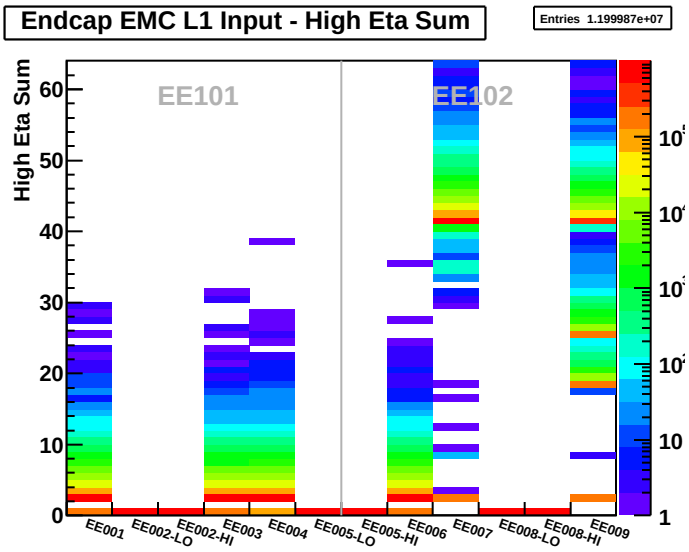

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

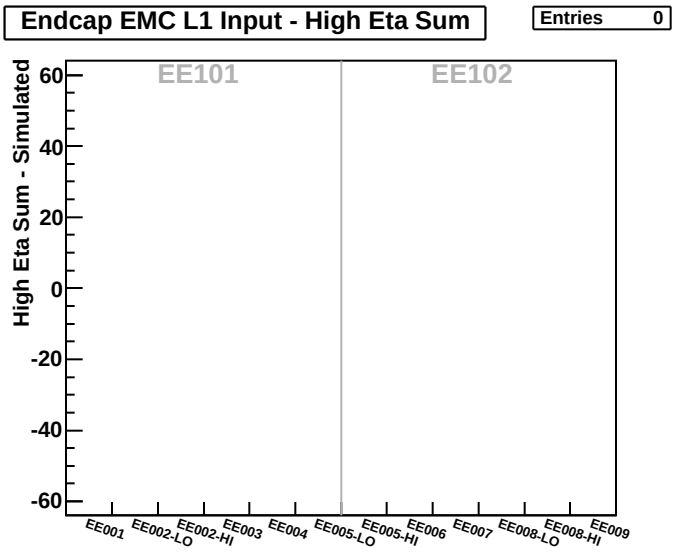

Barrel EMC L1 Input - High Tower Bits
Entries 3.59996e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

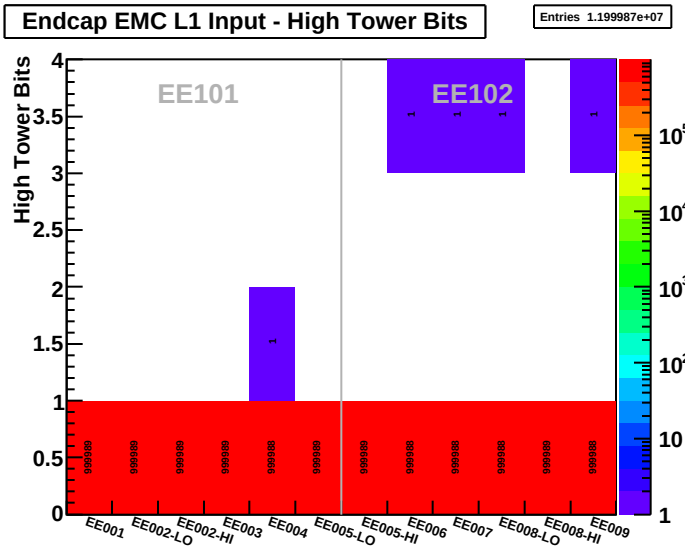

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

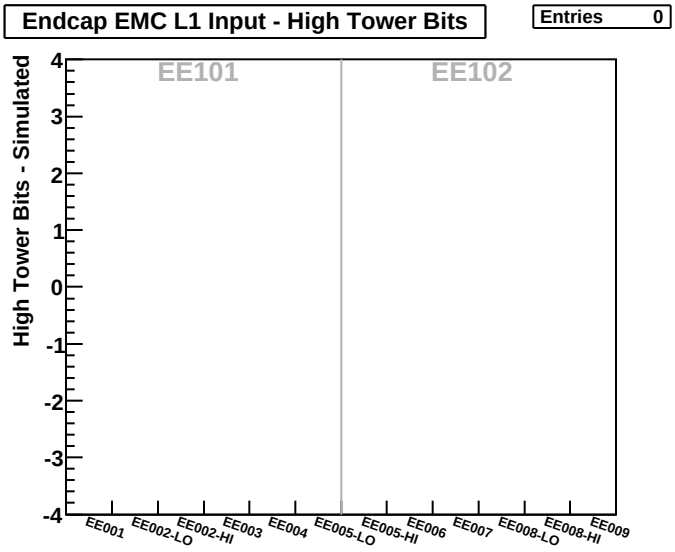

Endcap EMC L1 Input - Low Eta Sum
Entries 1.199987e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

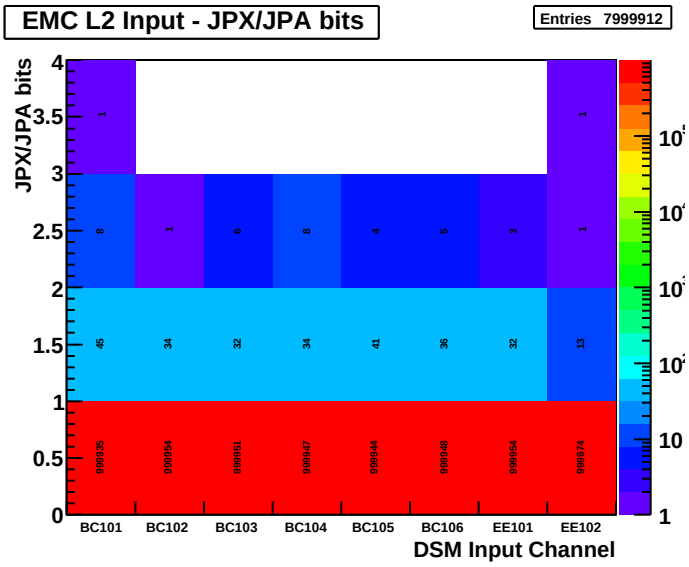

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

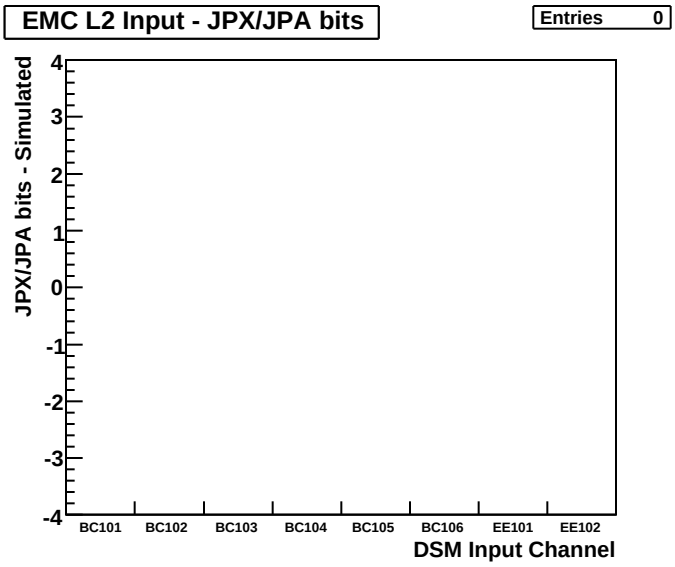

Endcap EMC L1 Input - High Eta Sum
Entries 1.199987e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

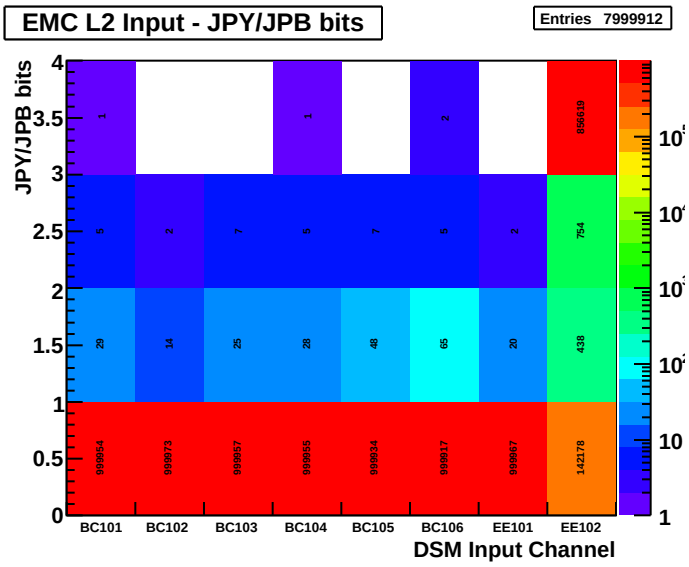

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

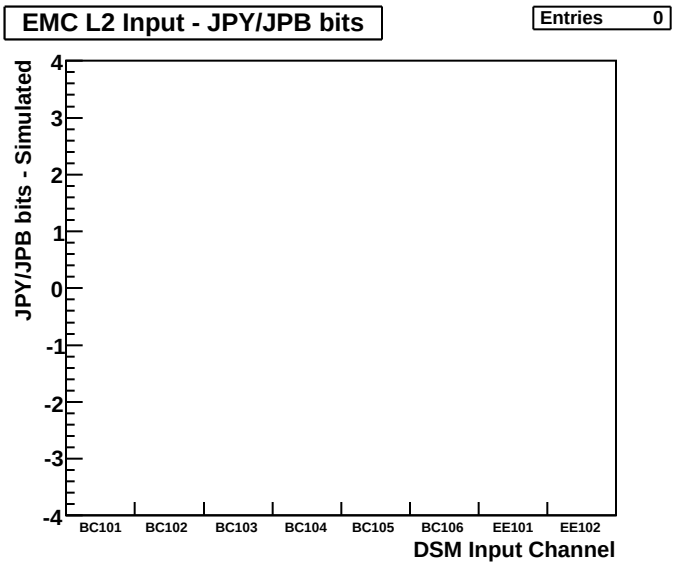

Endcap EMC L1 Input - High Tower Bits
Entries 1.199987e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

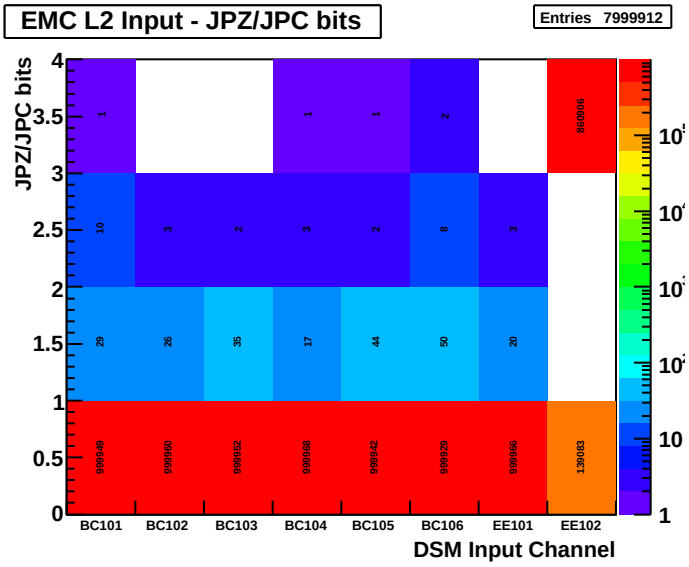

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

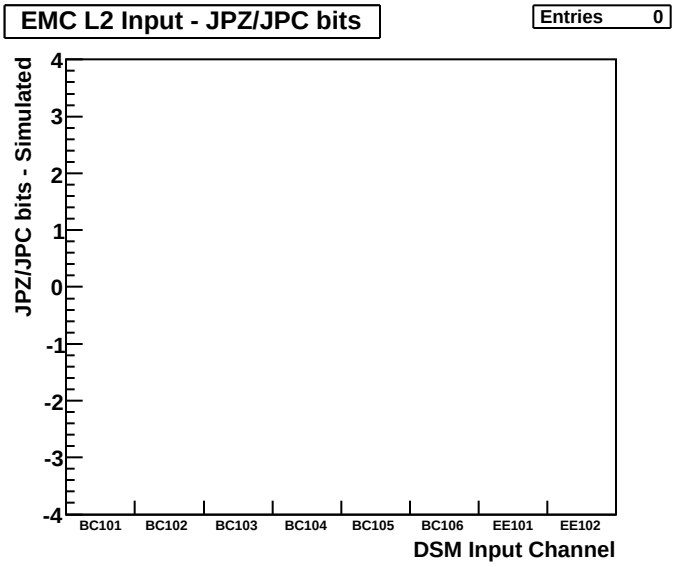

EMC L2 Input - JPX/JPA bits
Entries 7999912
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

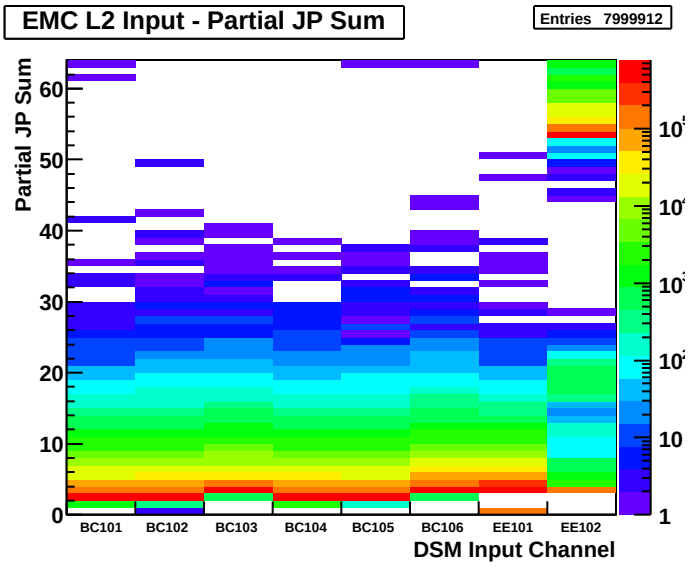

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

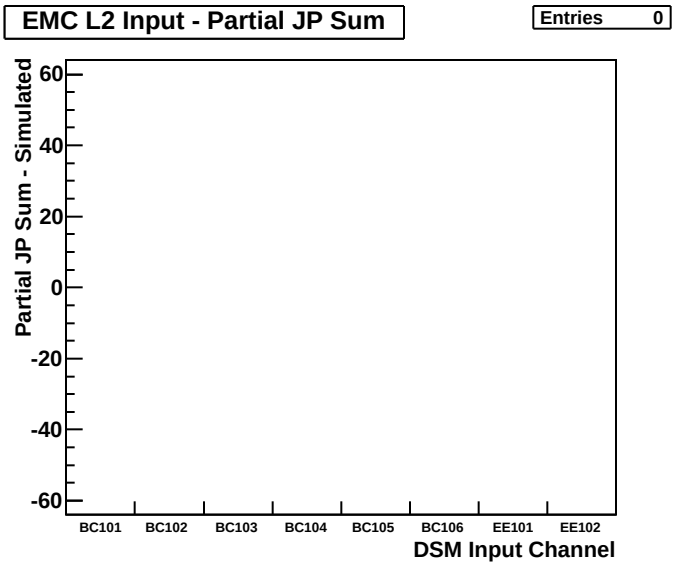

EMC L2 Input - JPY/JPB bits
Entries 7999912
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

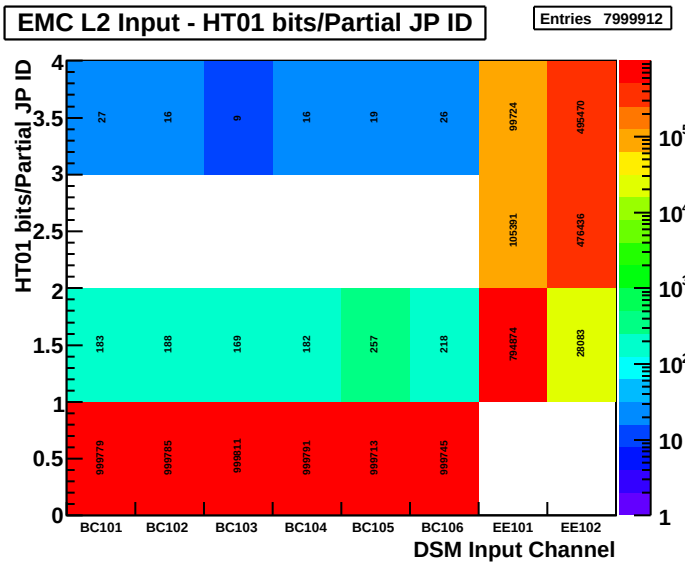

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

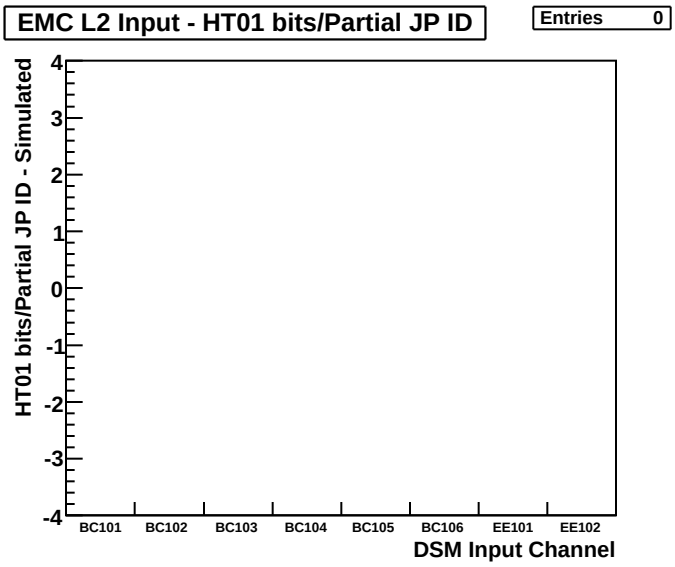

EMC L2 Input - JPZ/JPC bits
Entries 7999912
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

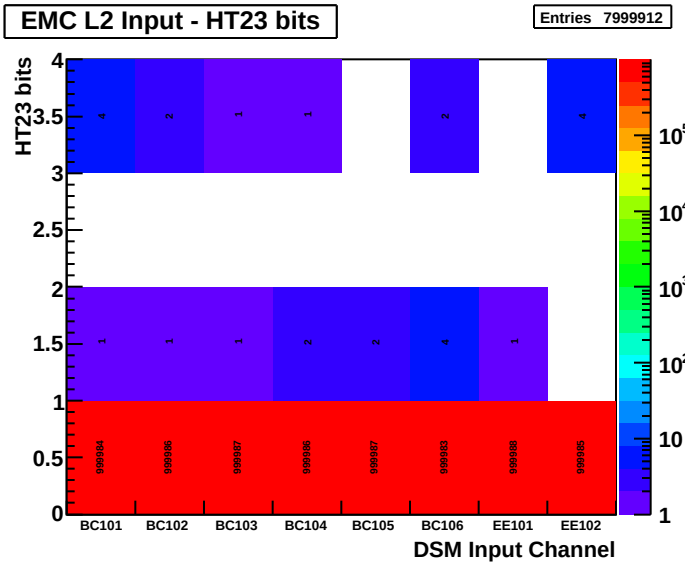

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

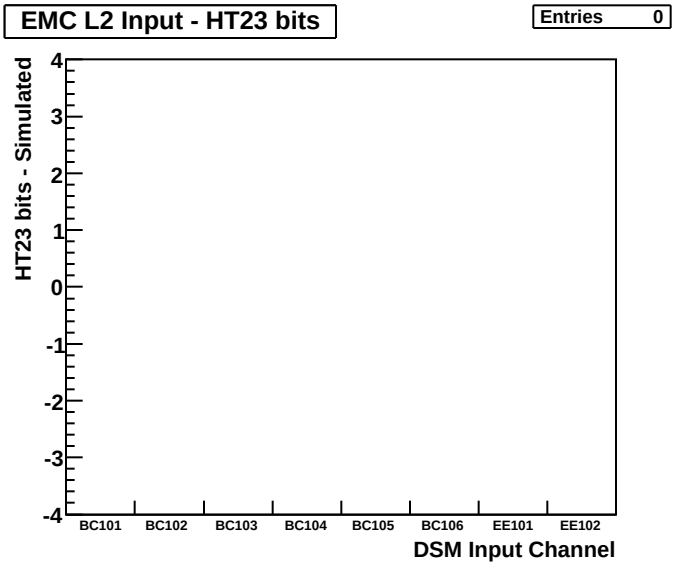

EMC L2 Input - Partial JP Sum
Entries 7999912
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

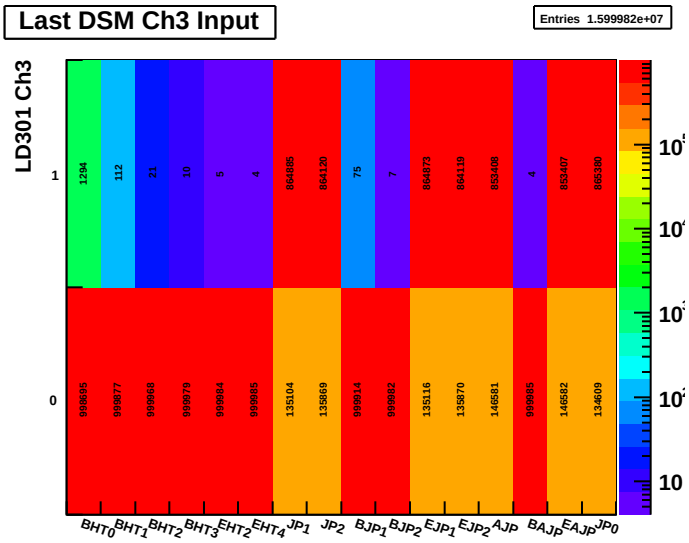

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

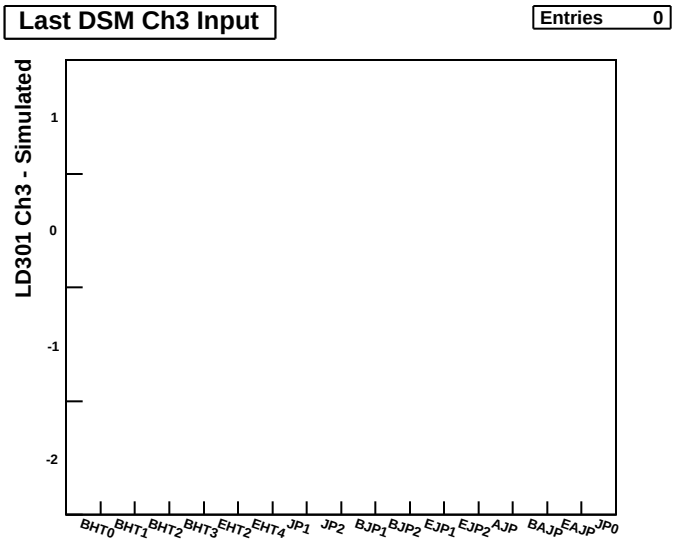

EMC L2 Input - HT01 bits/Partial JP ID
Entries 7999912
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

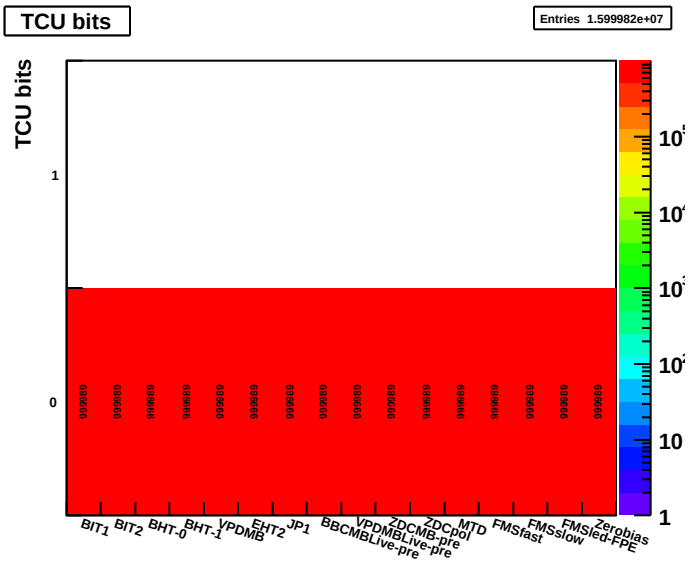

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

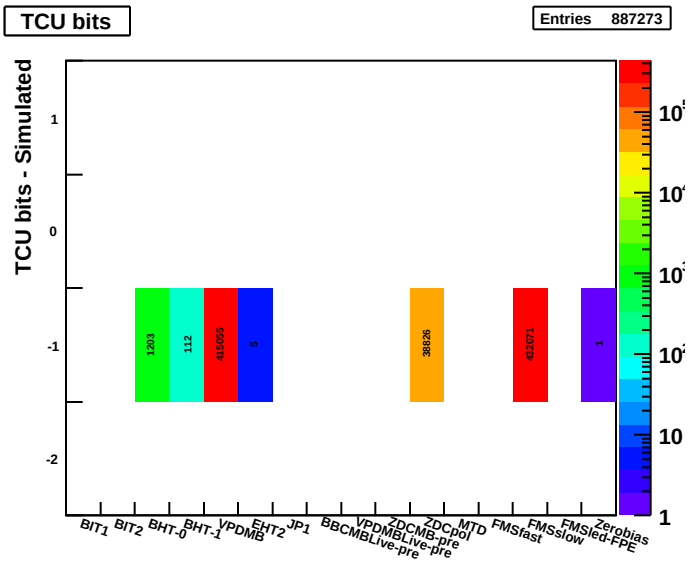

EMC L2 Input - HT23 bits
Entries 7999912
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

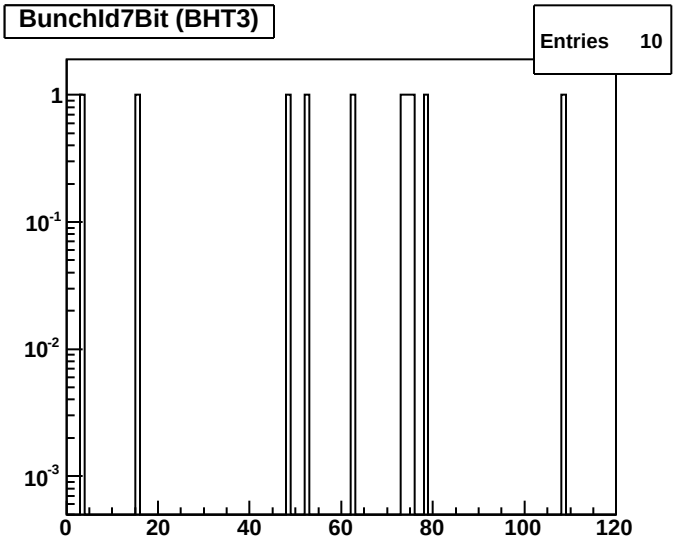

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

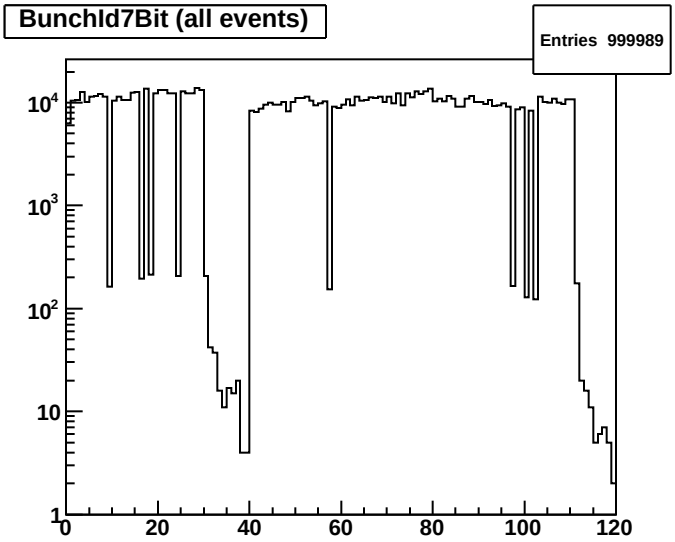

Last DSM Ch3 Input
Entries 1.599982e+07
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

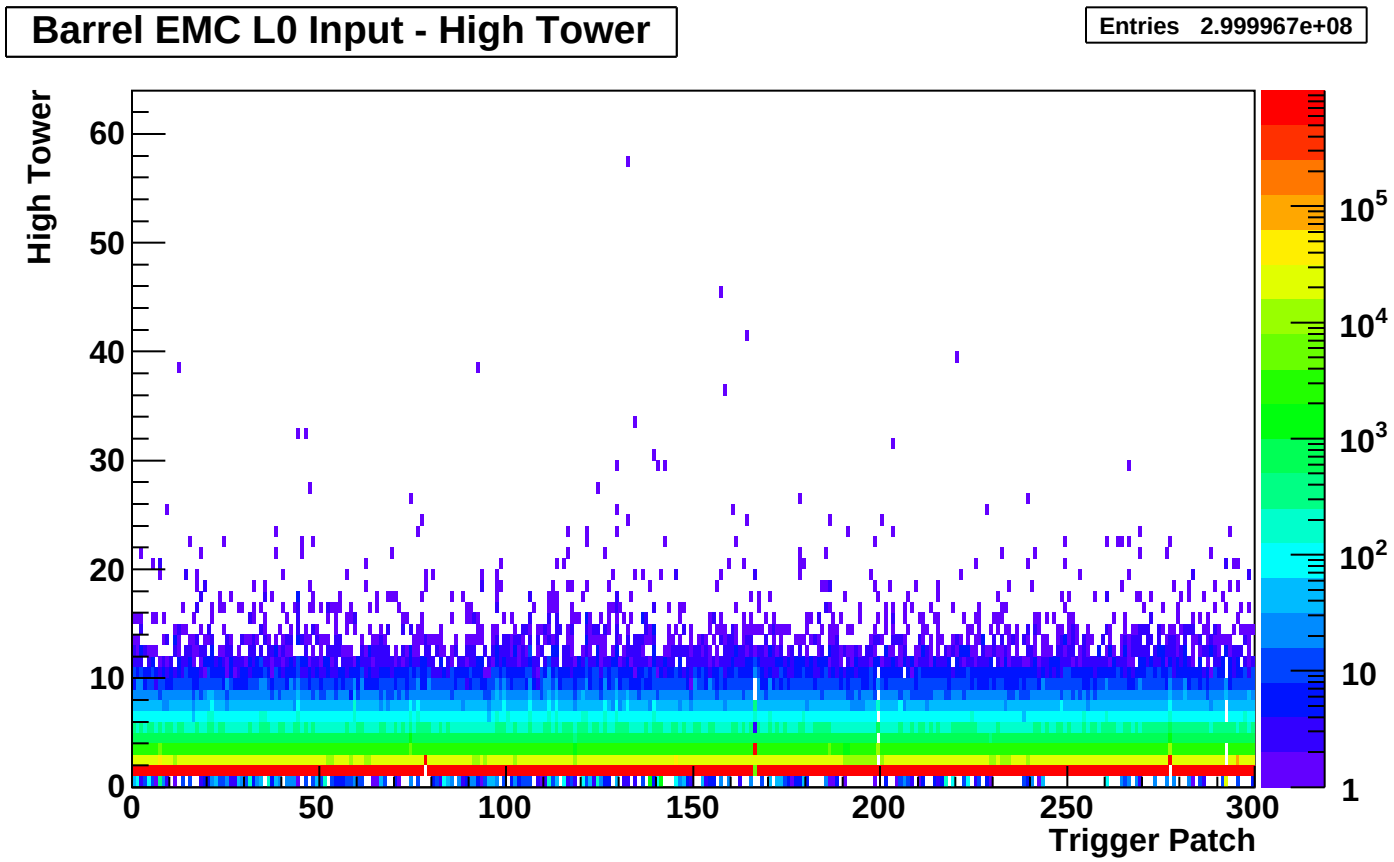

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

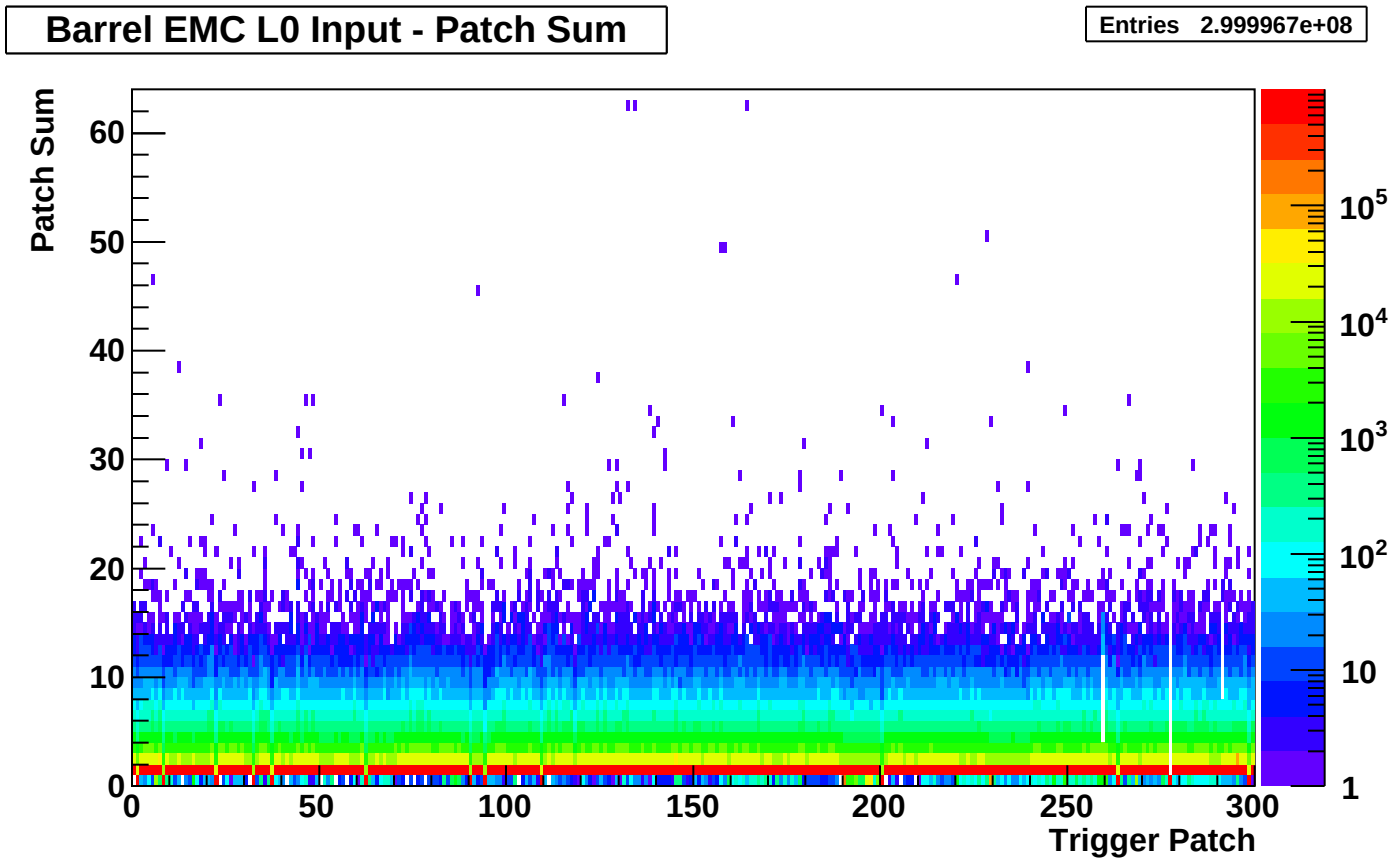

TCU bits
Entries 1.599982e+07
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

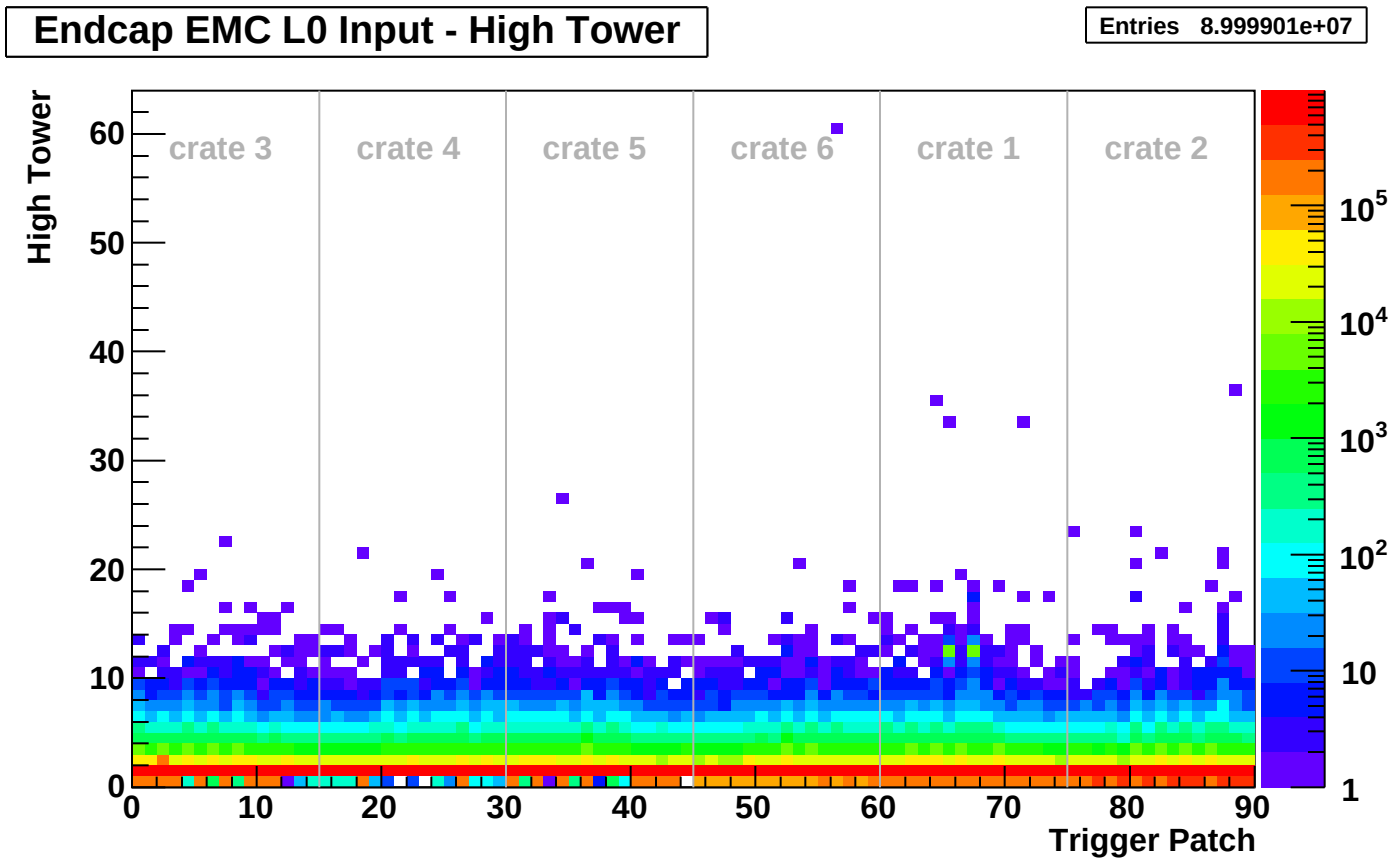

TCU bits
Entries 887273
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

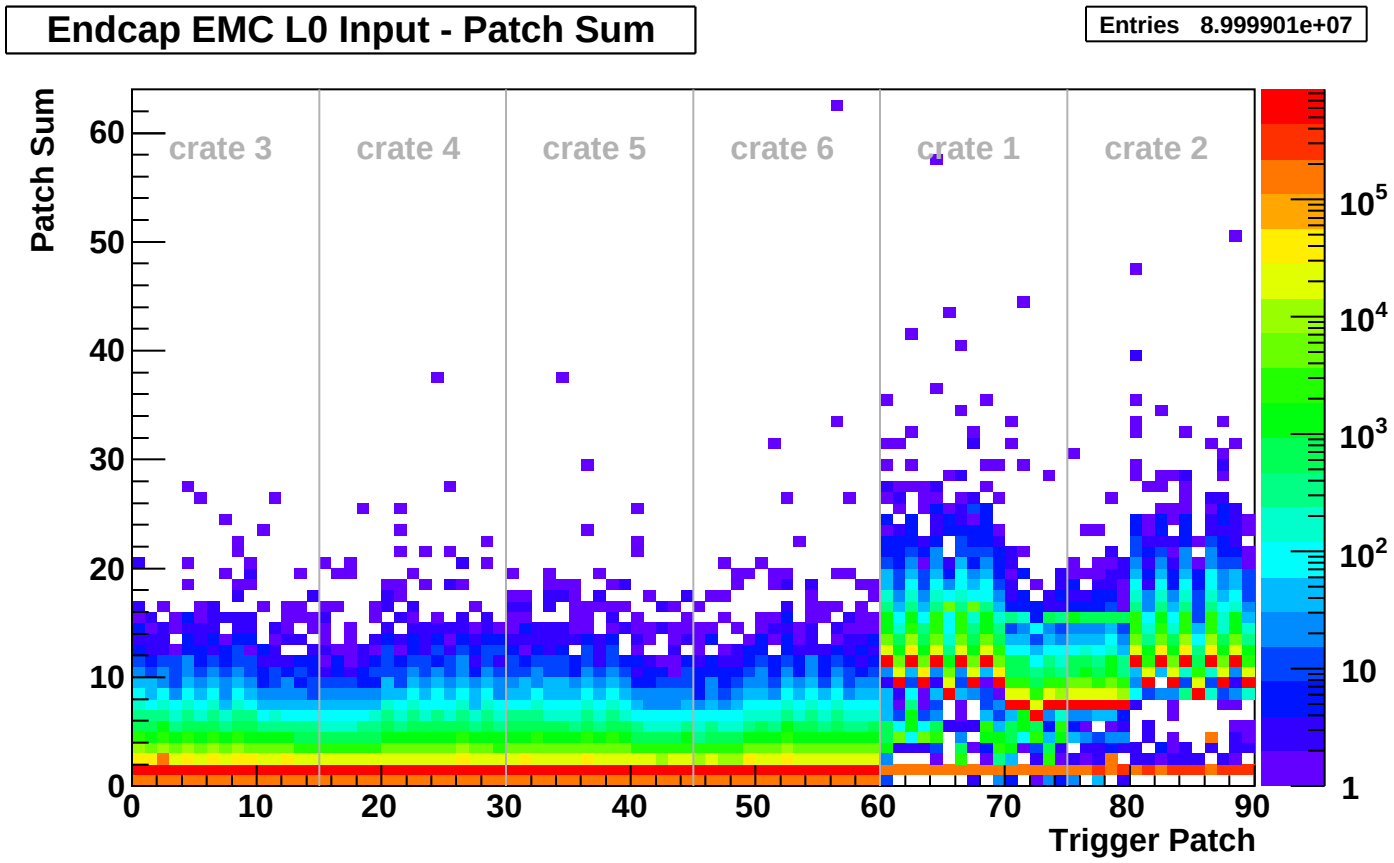

BunchId7Bit (BHT3)
Entries 10

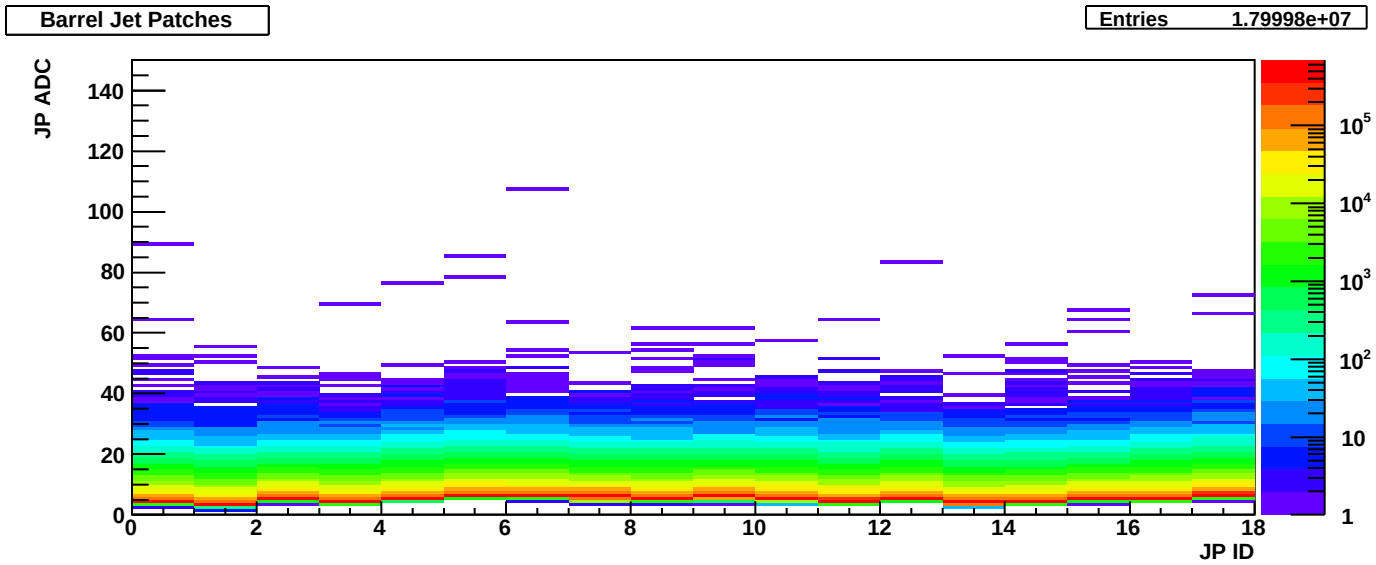

BunchId7Bit (all events)
Entries 999989

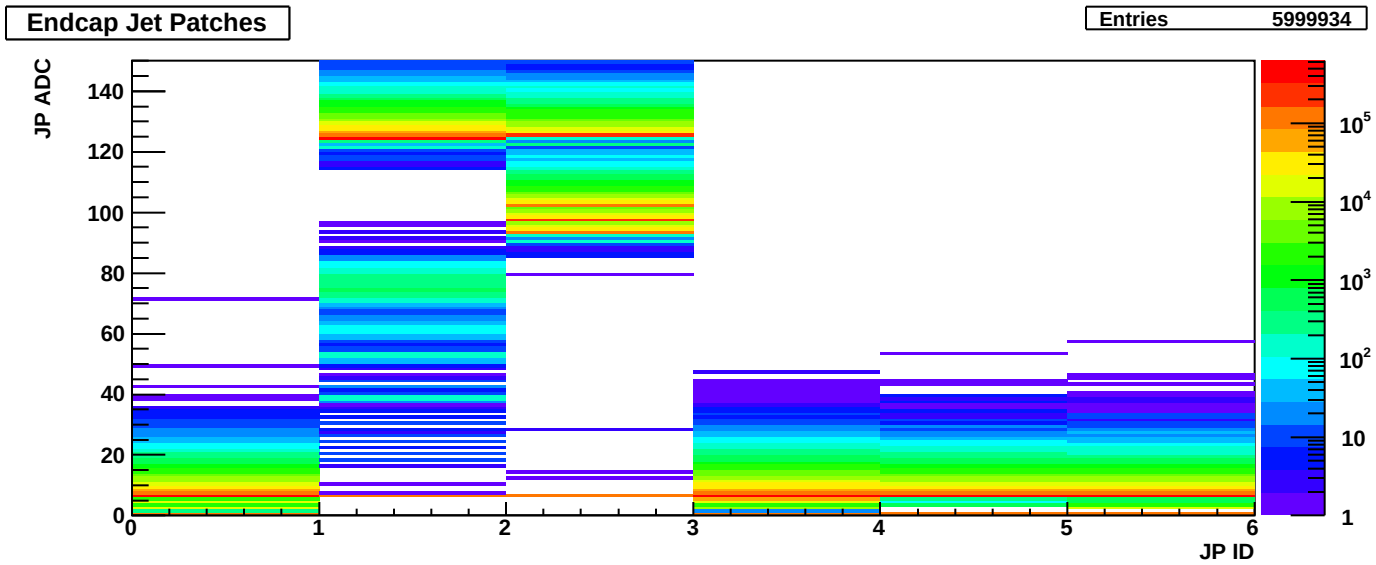

Barrel EMC L0 Input - High Tower
Entries 2.999967e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

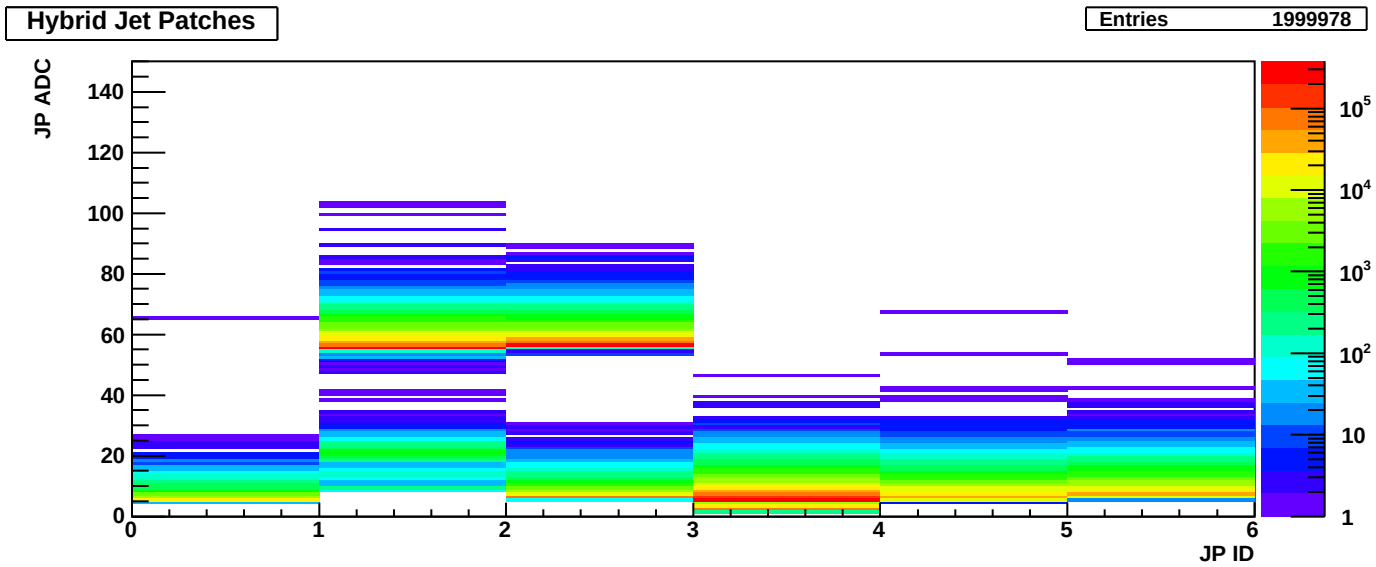

Barrel EMC L0 Input - Patch Sum
Entries 2.999967e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

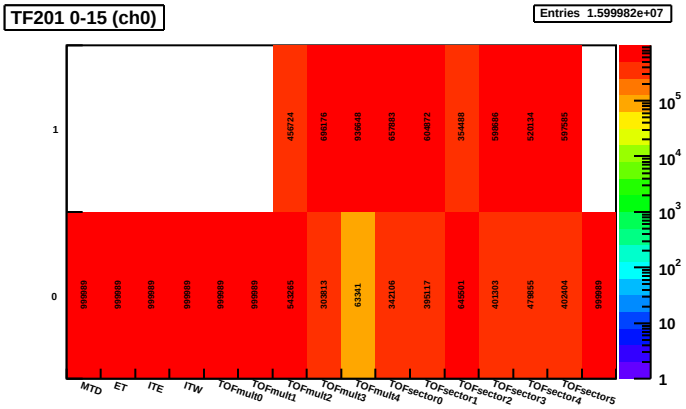

Endcap EMC L0 Input - High Tower
Entries 8.999901e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

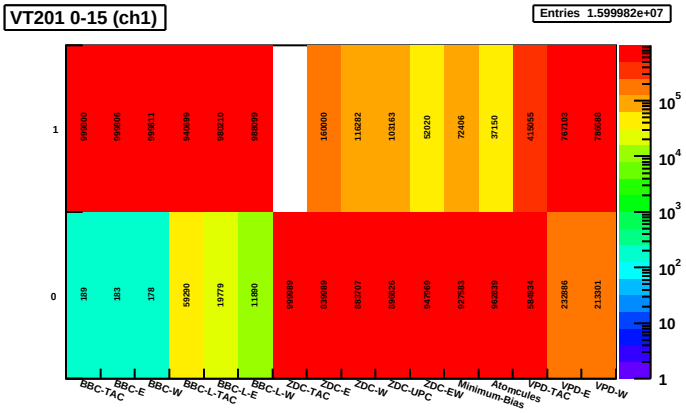

Endcap EMC L0 Input - Patch Sum
Entries 8.999901e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

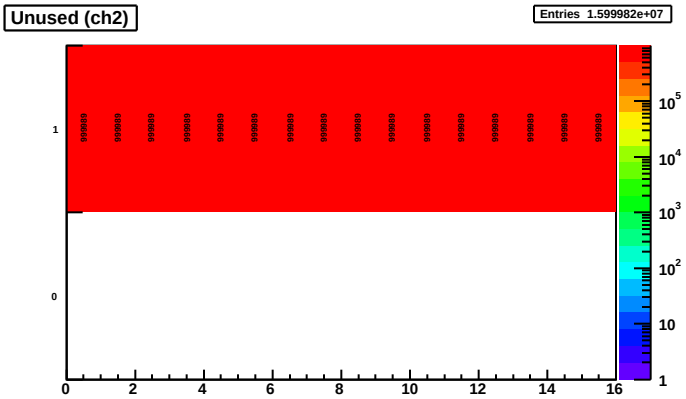

Barrel Jet Patches
Entries 1.79998e+07
JP ADC
JP ID

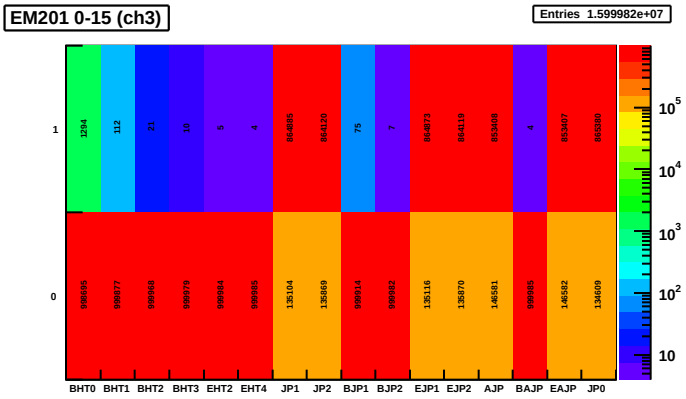

Endcap Jet Patches
Entries 5999934
JP ADC
JP ID

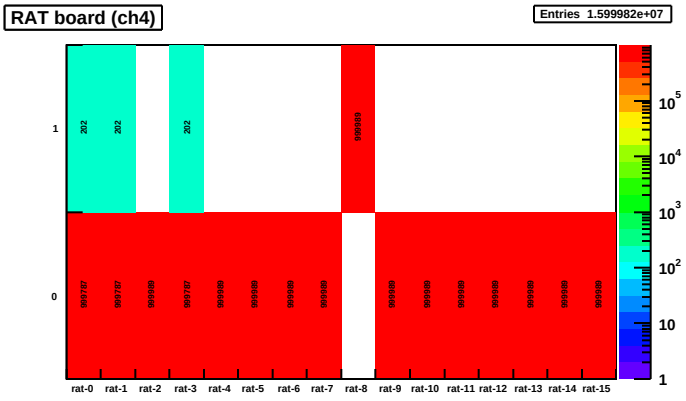

Hybrid Jet Patches
Entries 1999978
JP ADC
JP ID

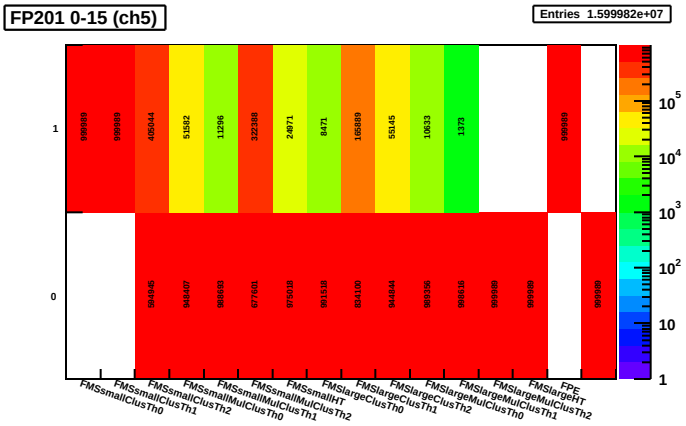

TF201 0-15 (ch0)
Entries 1.599982e+07
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

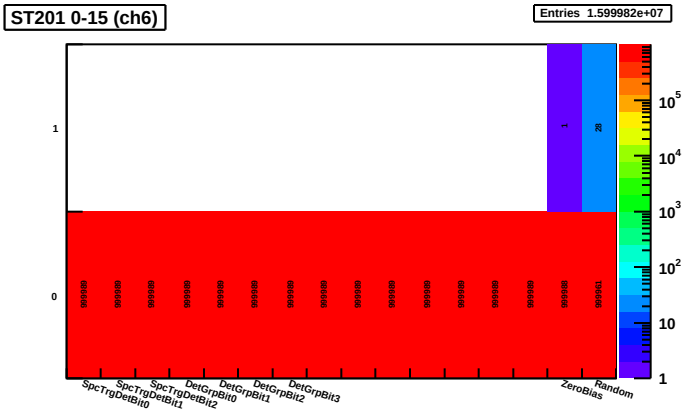

VT201 0-15 (ch1)
Entries 1.599982e+07
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

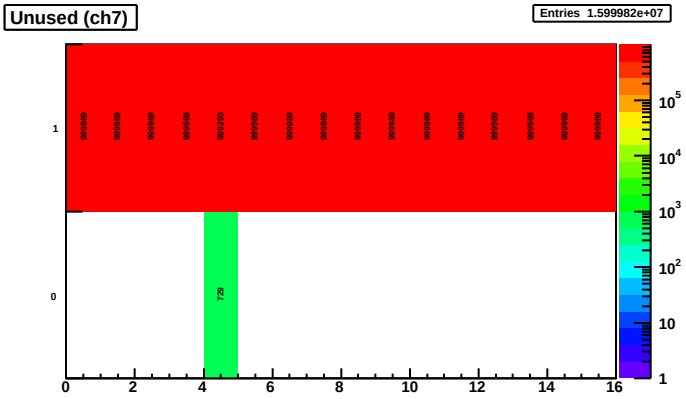

Unused (ch2)
Entries 1.599982e+07

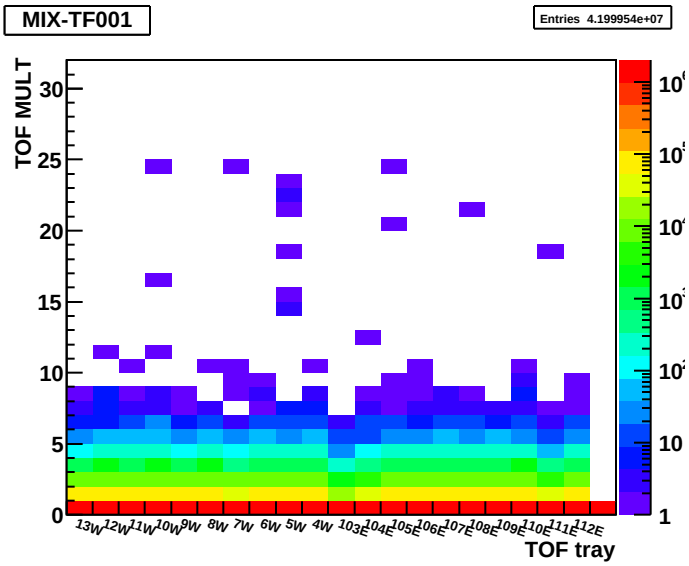

EM201 0-15 (ch3)
Entries 1.599982e+07
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

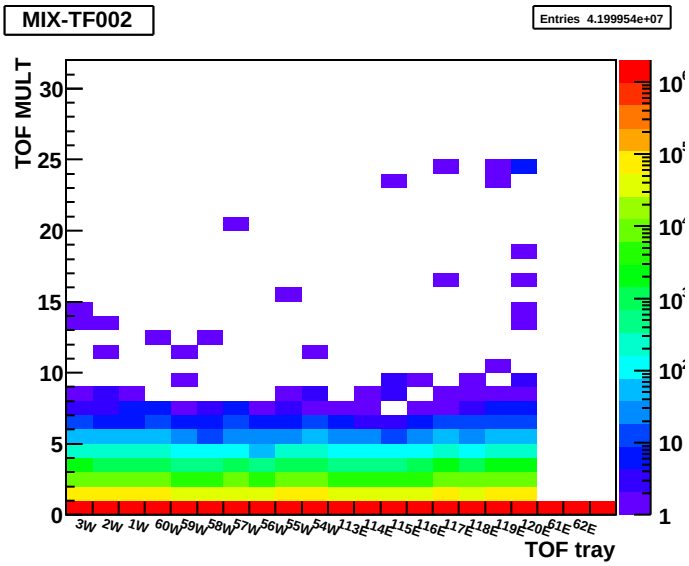

RAT board (ch4)
Entries 1.599982e+07
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

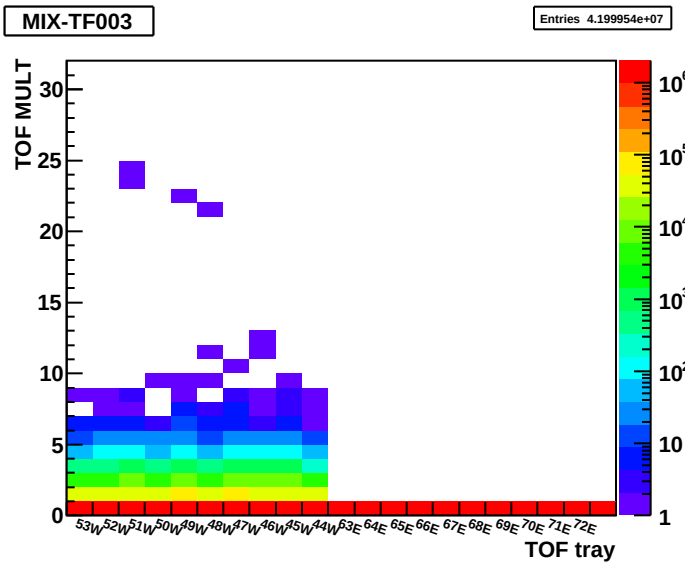

FP201 0-15 (ch5)
Entries 1.599982e+07
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

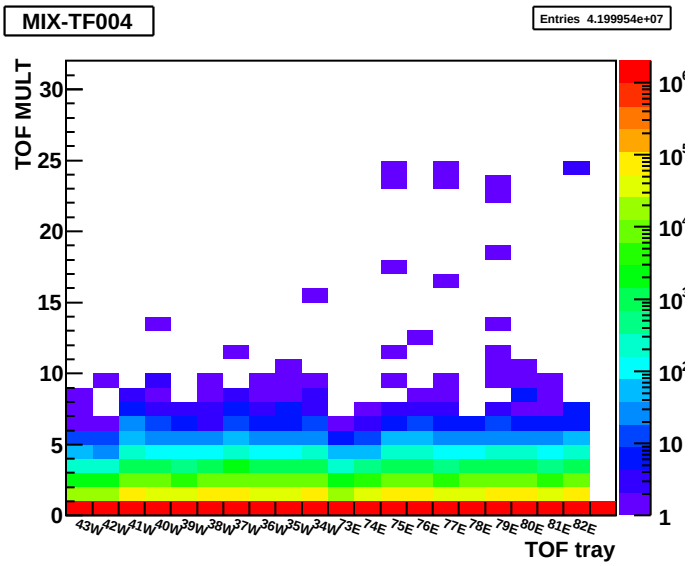

ST201 0-15 (ch6)
Entries 1.599982e+07
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetGrpBit0
DetGrpBit1
DetGrpBit2
DetGrpBit3
ZeroBias
Random

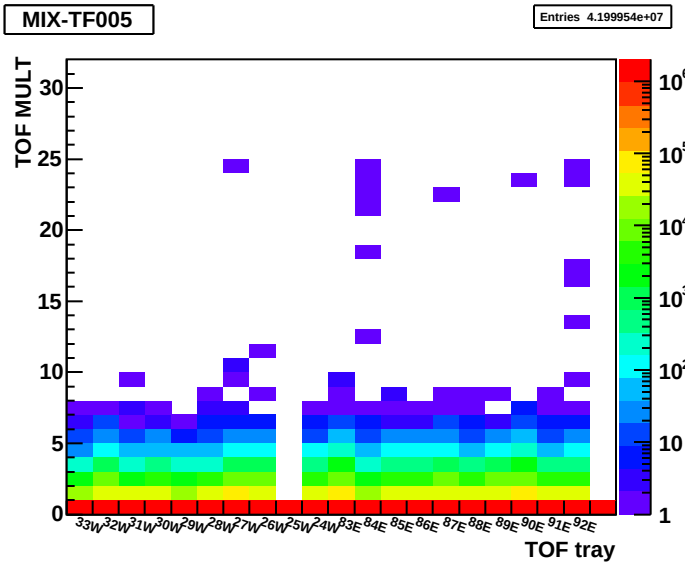

Unused (ch7)
Entries 1.599982e+07

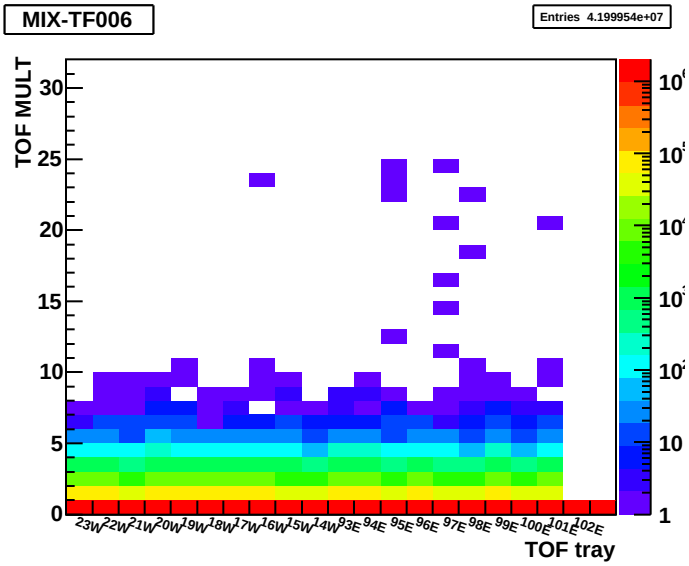

MIX-TF001
Entries 4.199954e+07
TOF MULT
TOF tray

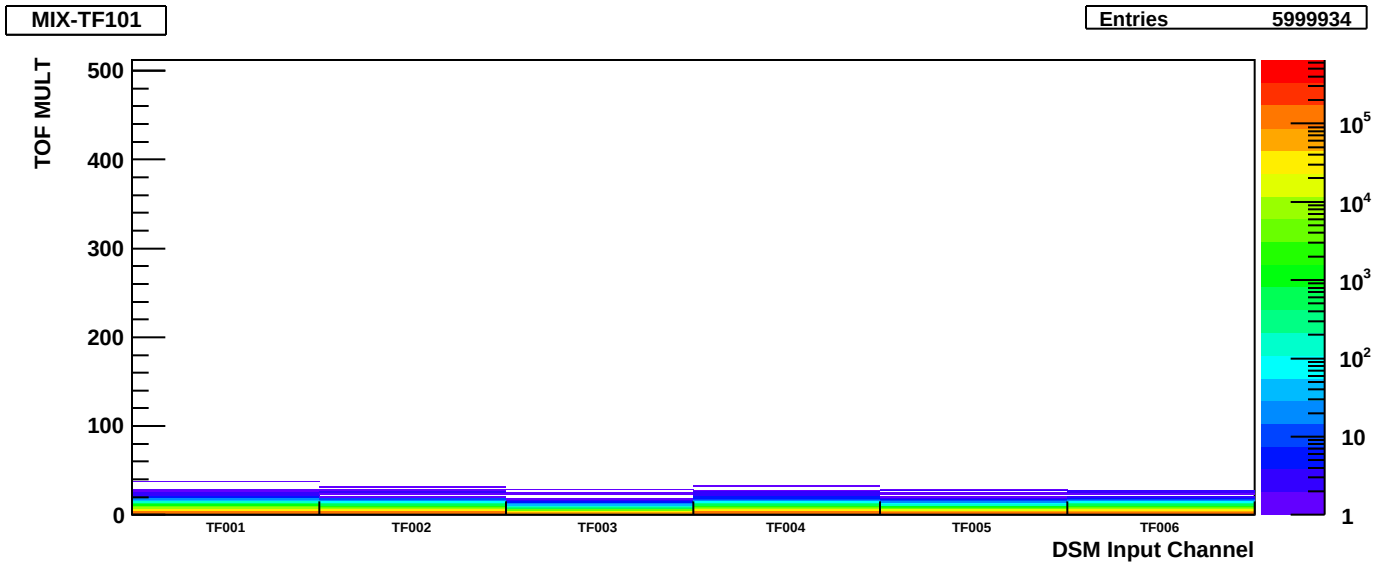

MIX-TF002
Entries 4.199954e+07
TOF MULT
TOF tray

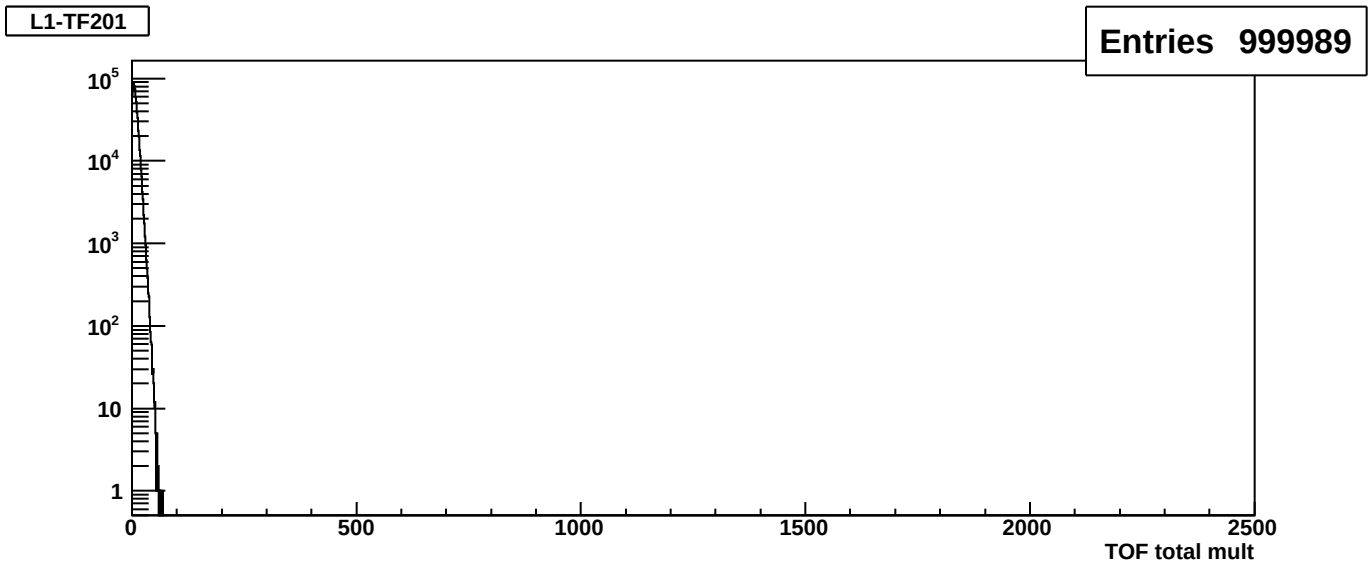

MIX-TF003
Entries 4.199954e+07
TOF MULT
TOF tray

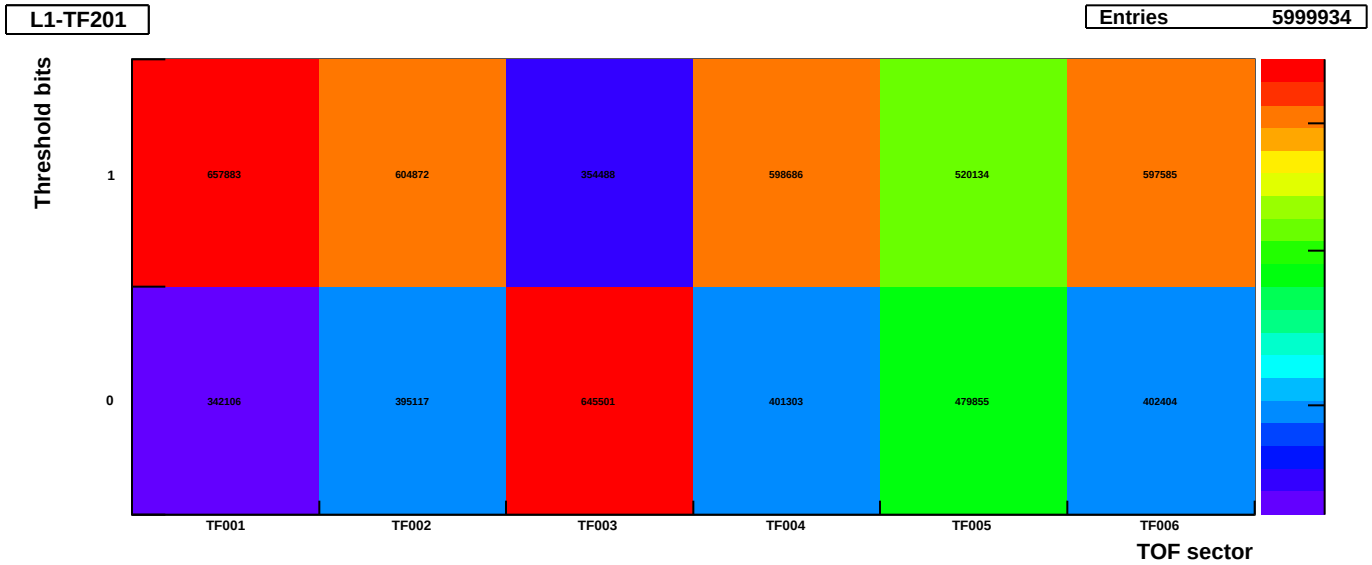

MIX-TF004
Entries 4.199954e+07
TOF MULT
TOF tray

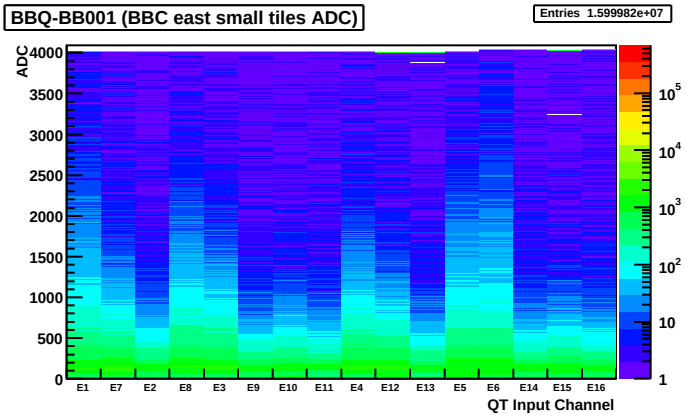

MIX-TF005
Entries 4.199954e+07
TOF MULT
TOF tray

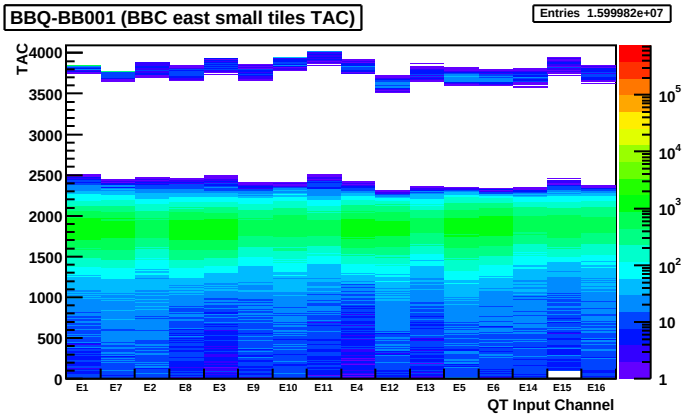

MIX-TF006
Entries 4.199954e+07
TOF MULT
TOF tray

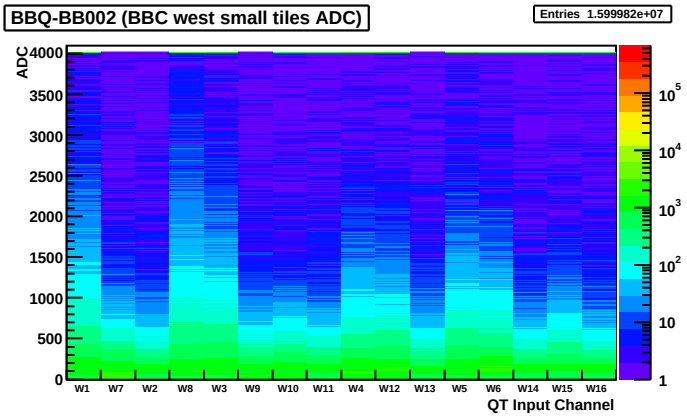

MIX-TF101
Entries 5999934
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

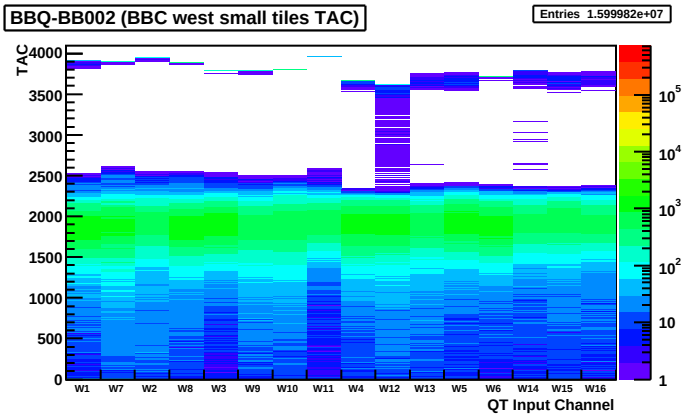

L1-TF201
Entries 999989
10^5
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

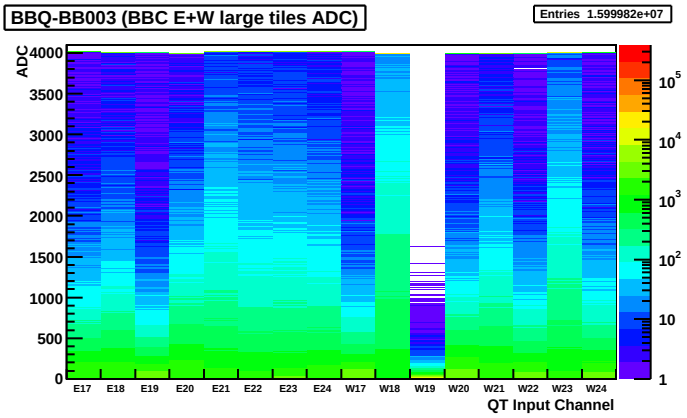

L1-TF201
Entries 5999934
Threshold bits
1
0
657883
604872
354488
598686
520134
597585
342106
395117
645501
401303
479855
402404
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

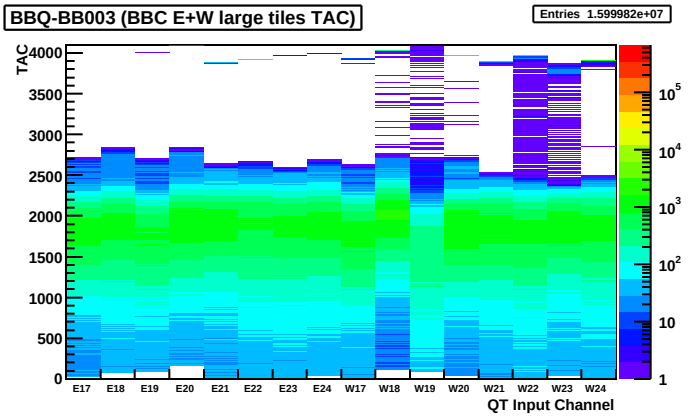

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.599982e+07
ADC
QT Input Channel

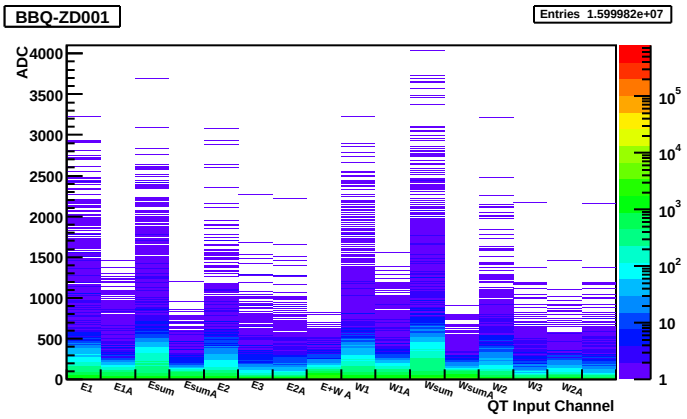

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.599982e+07
TAC
QT Input Channel

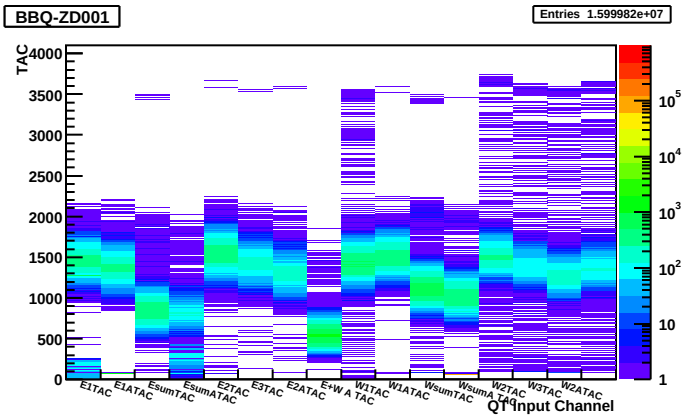

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.599982e+07
ADC
QT Input Channel

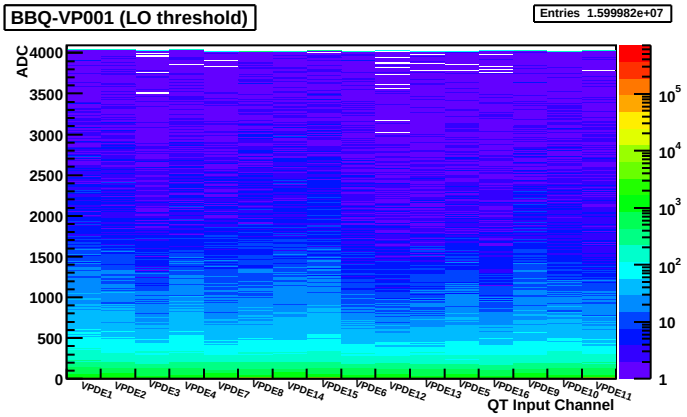

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.599982e+07
TAC
QT Input Channel

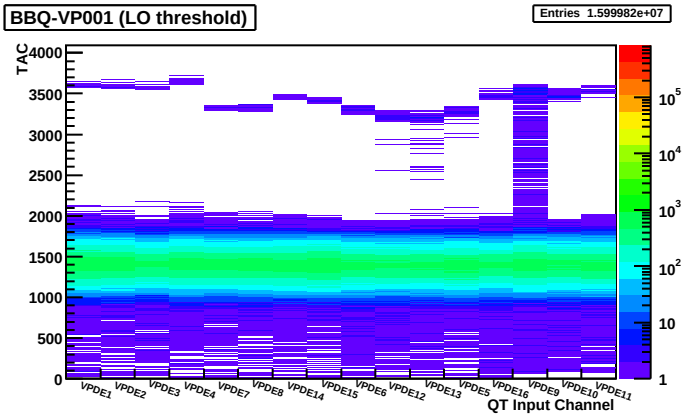

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.599982e+07
ADC
QT Input Channel

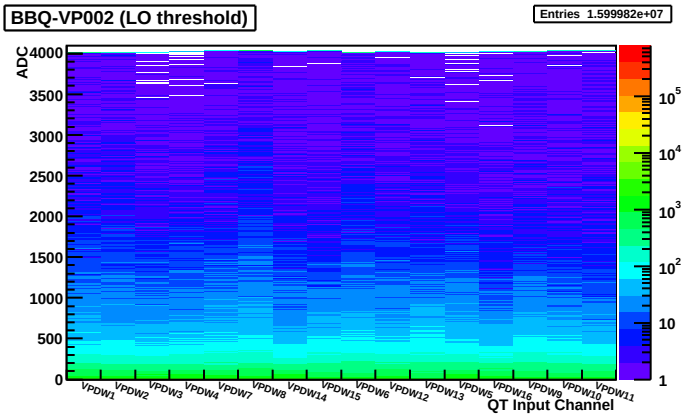

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.599982e+07
TAC
QT Input Channel

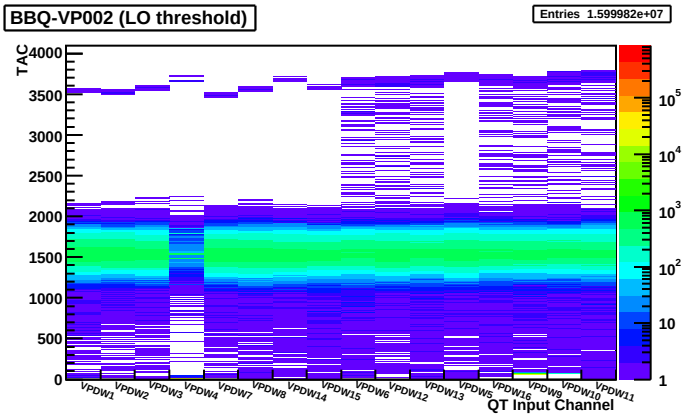

BBQ-ZD001
Entries 1.599982e+07
ADC
QT Input Channel

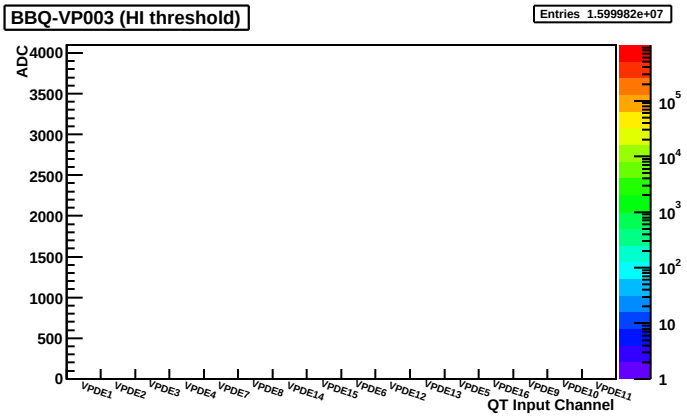

BBQ-ZD001
Entries 1.599982e+07
TAC
QT Input Channel

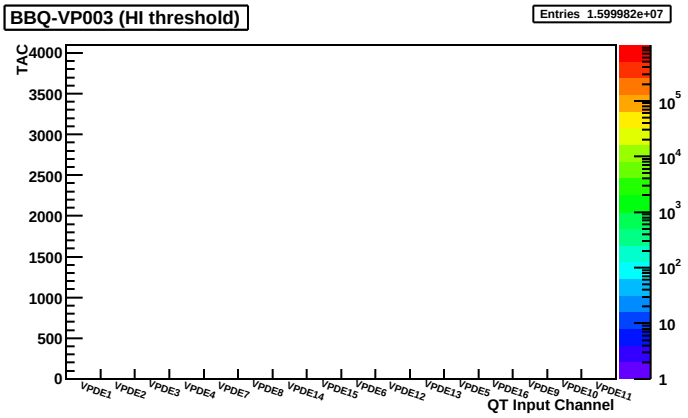

BBQ-VP001 (LO threshold)
Entries 1.599982e+07
ADC
QT Input Channel

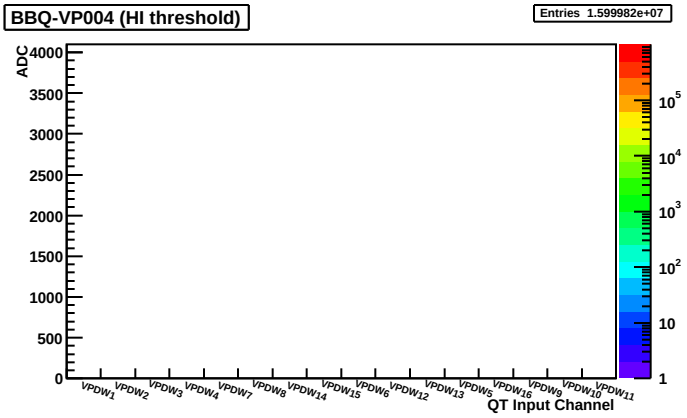

BBQ-VP001 (LO threshold)
Entries 1.599982e+07
TAC
QT Input Channel

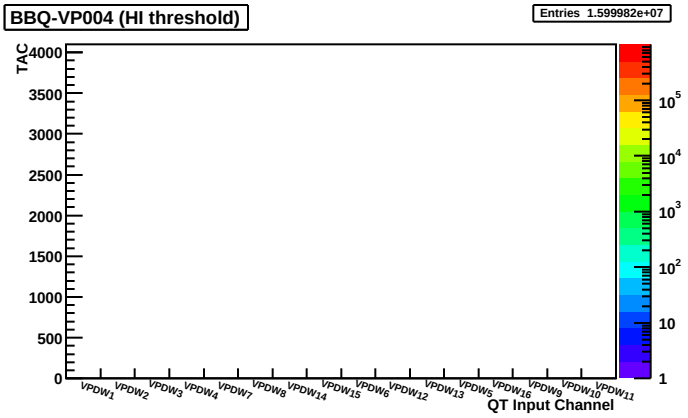

BBQ-VP002 (LO threshold)
Entries 1.599982e+07
ADC
QT Input Channel

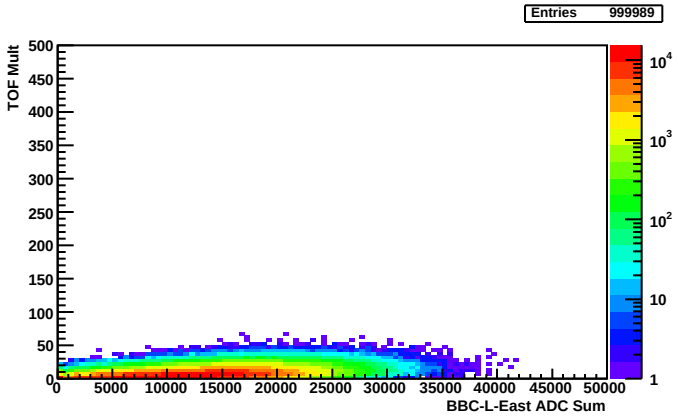

BBQ-VP002 (LO threshold)
Entries 1.599982e+07
TAC
QT Input Channel

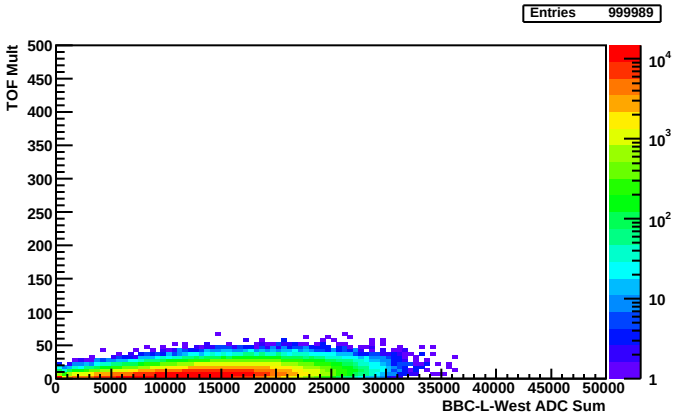

BBQ-VP003 (HI threshold)
Entries 1.599982e+07
ADC
QT Input Channel

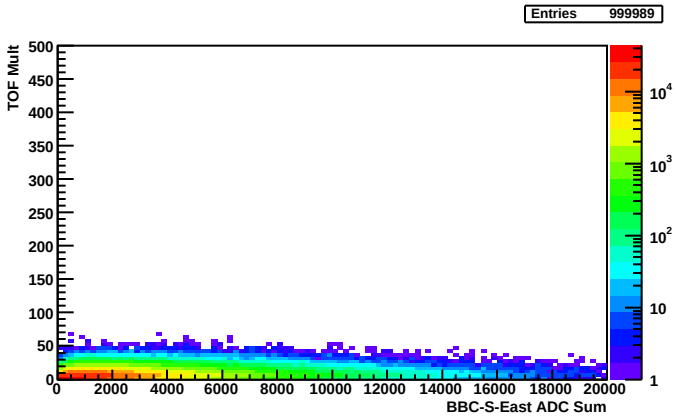

BBQ-VP003 (HI threshold)
Entries 1.599982e+07
TAC
QT Input Channel

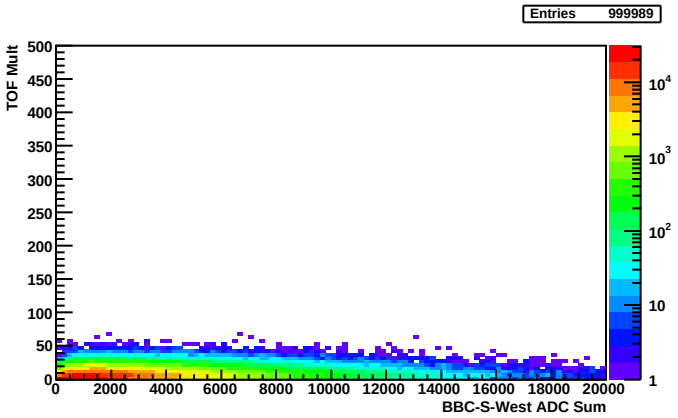

BBQ-VP004 (HI threshold)
Entries 1.599982e+07
ADC
QT Input Channel

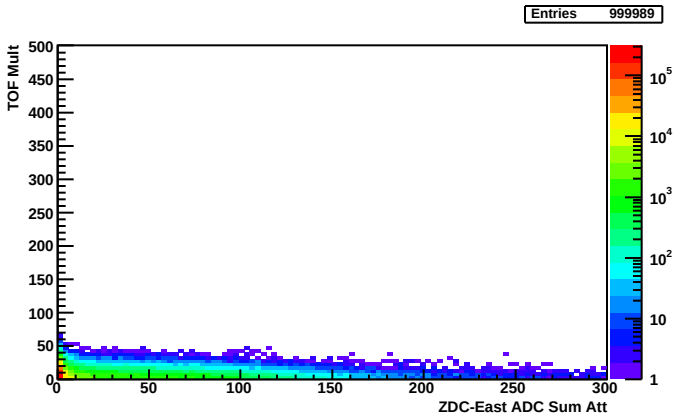

BBQ-VP004 (HI threshold)
Entries 1.599982e+07
TAC
QT Input Channel

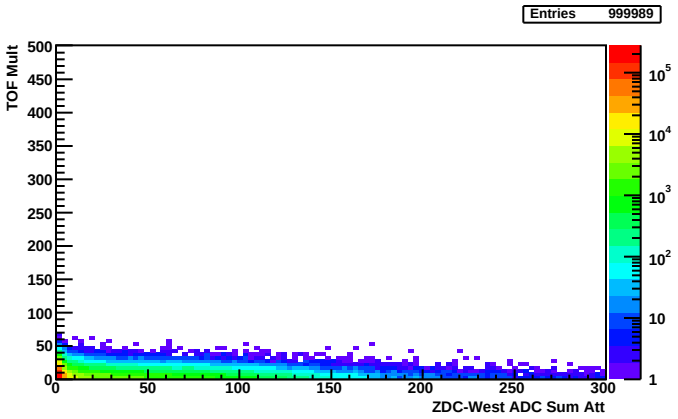

Entries 999989
TOF Mult
BBC-L-East ADC Sum

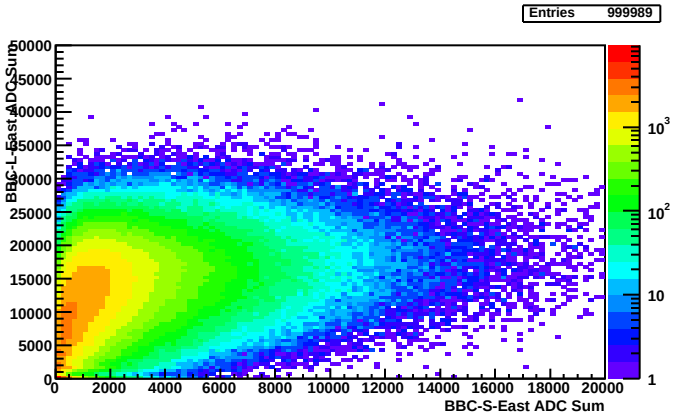

Entries 999989
TOF Mult
BBC-L-West ADC Sum

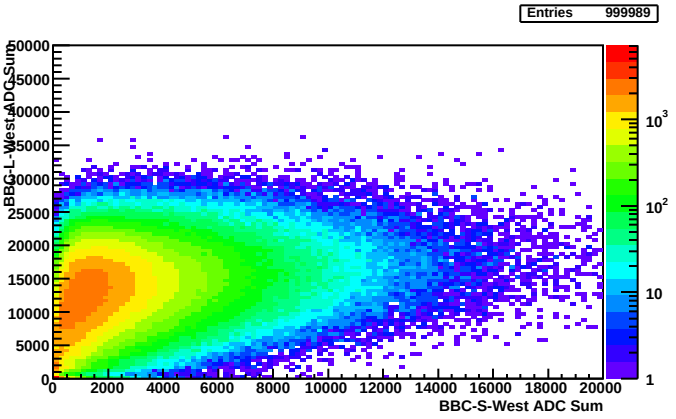

Entries 999989
TOF Mult
BBC-S-East ADC Sum

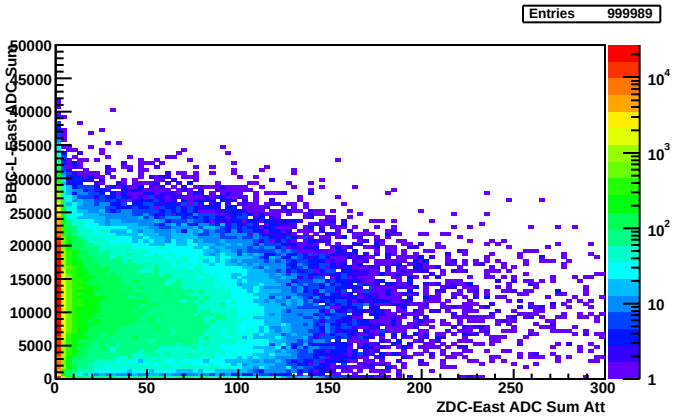

Entries 999989
TOF Mult
BBC-S-West ADC Sum

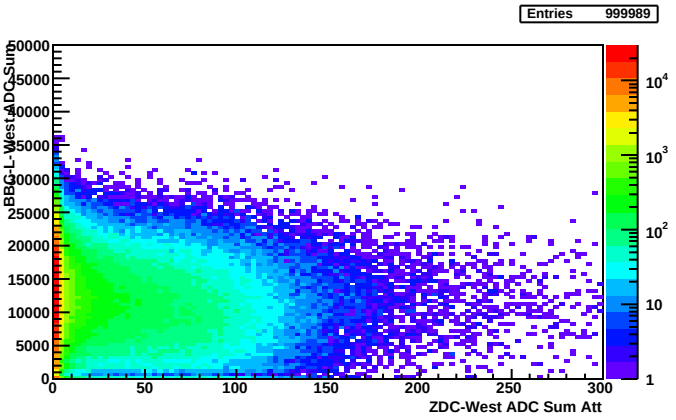

Entries 999989
TOF Mult
ZDC-East ADC Sum Att

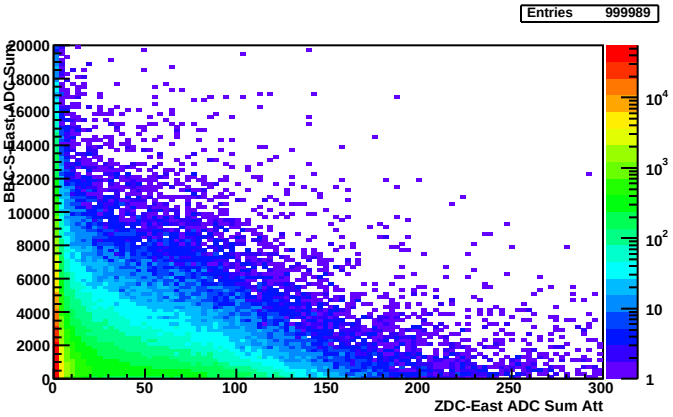

Entries 999989
TOF Mult
ZDC-West ADC Sum Att

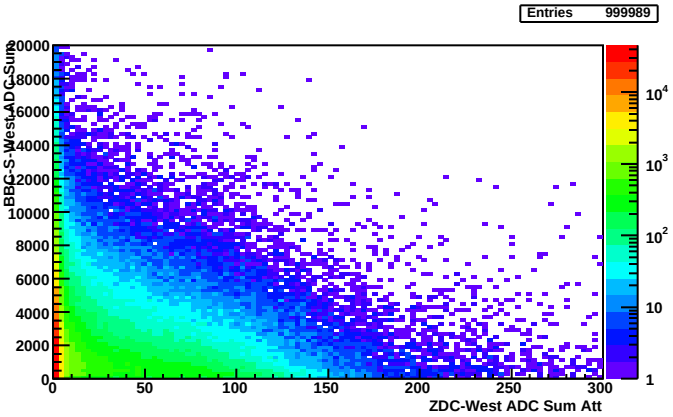

Entries 999989
BBC-L-East ADC Sum
BBC-S-East ADC Sum

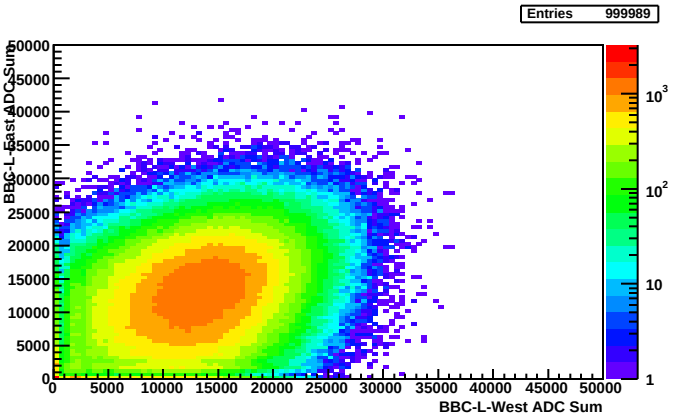

Entries 999989
BBC-L-West ADC Sum
BBC-S-West ADC Sum

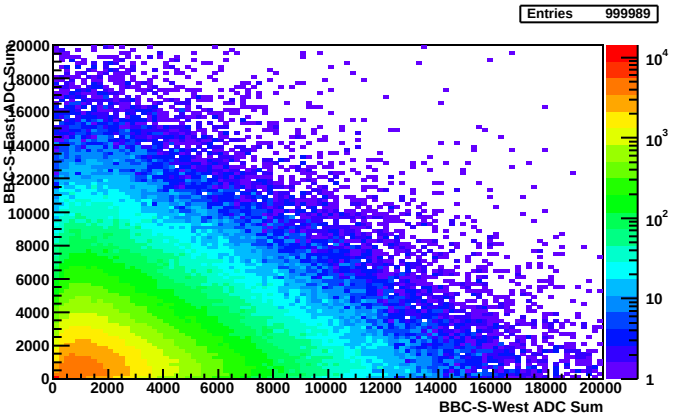

Entries 999989
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

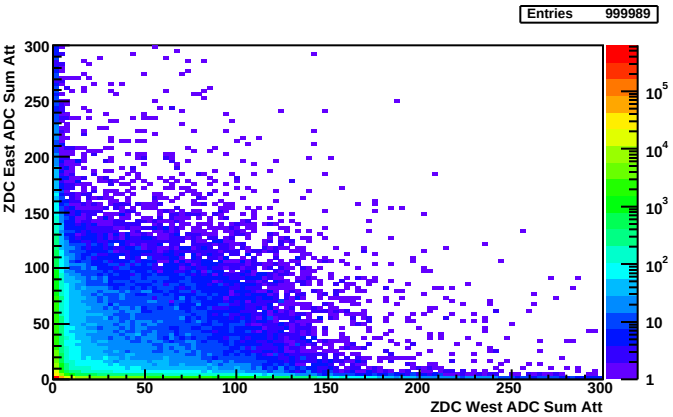

Entries 999989
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

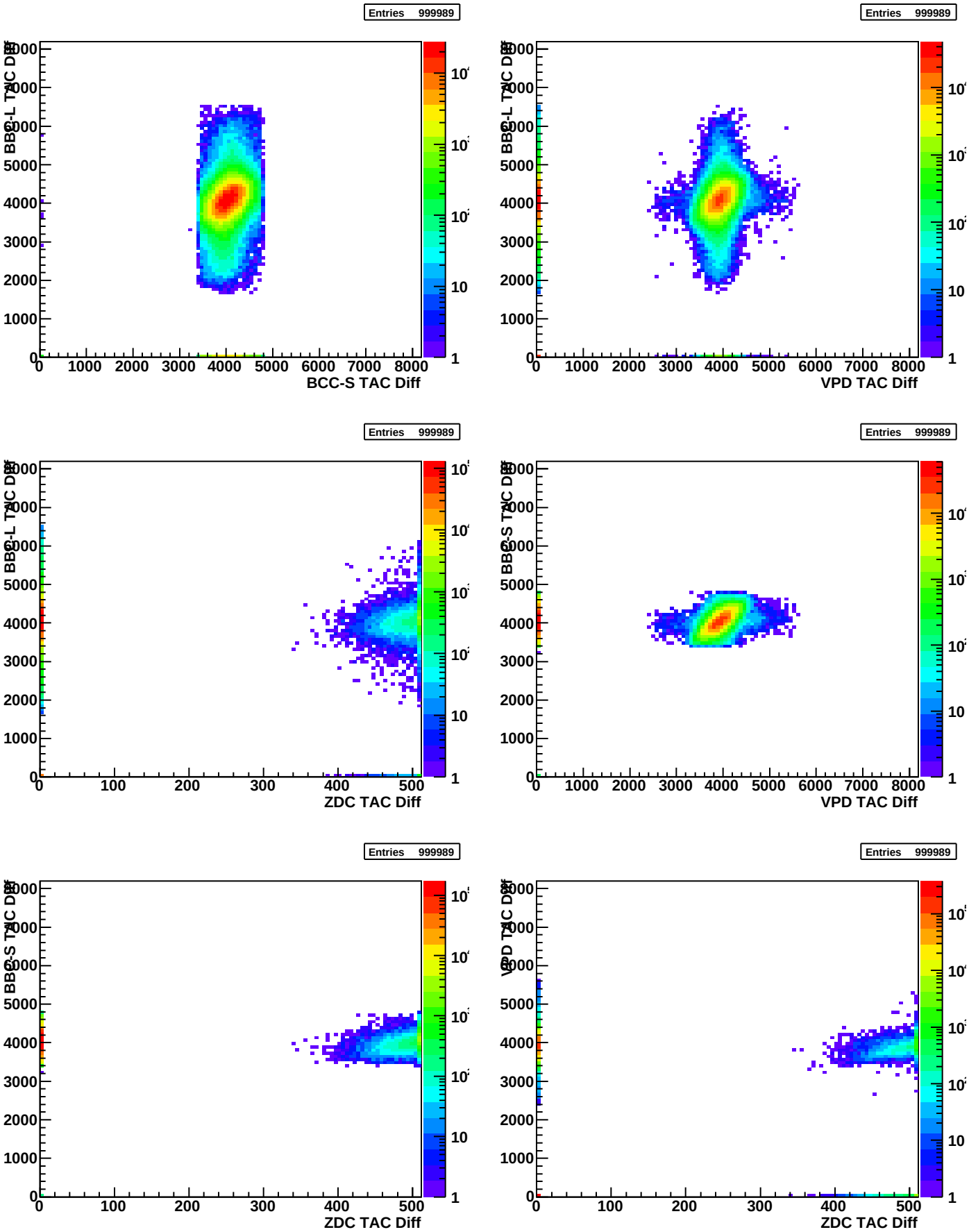

Entries 999989
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

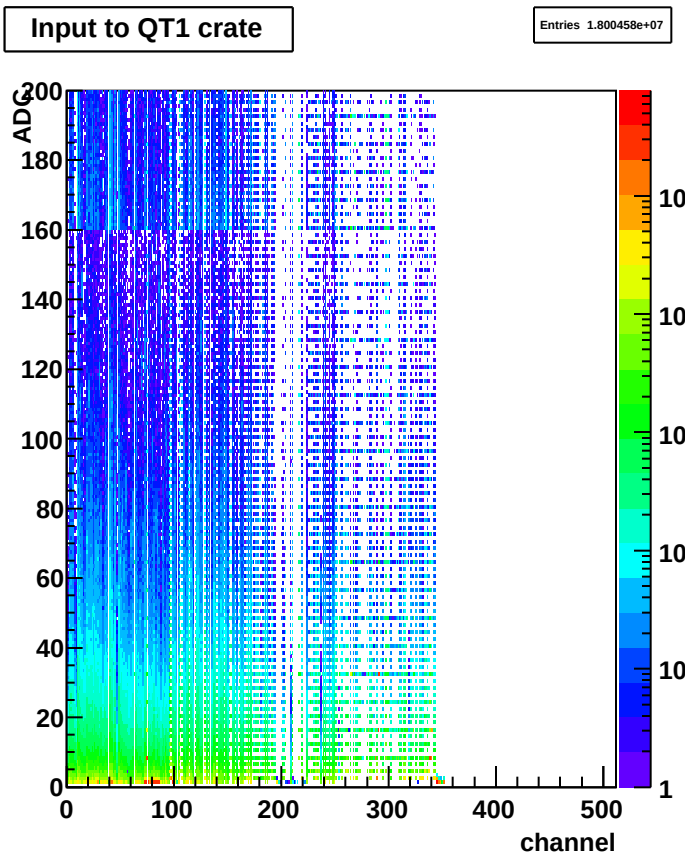

Entries 999989
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

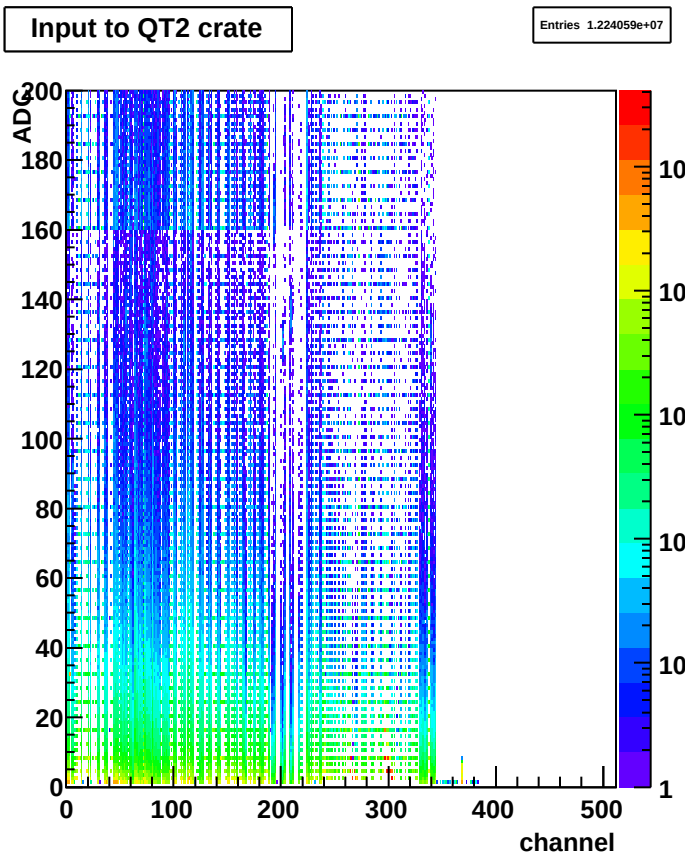

Entries 999989
BBC-L-East ADC Sum
BBC-L-West ADC Sum

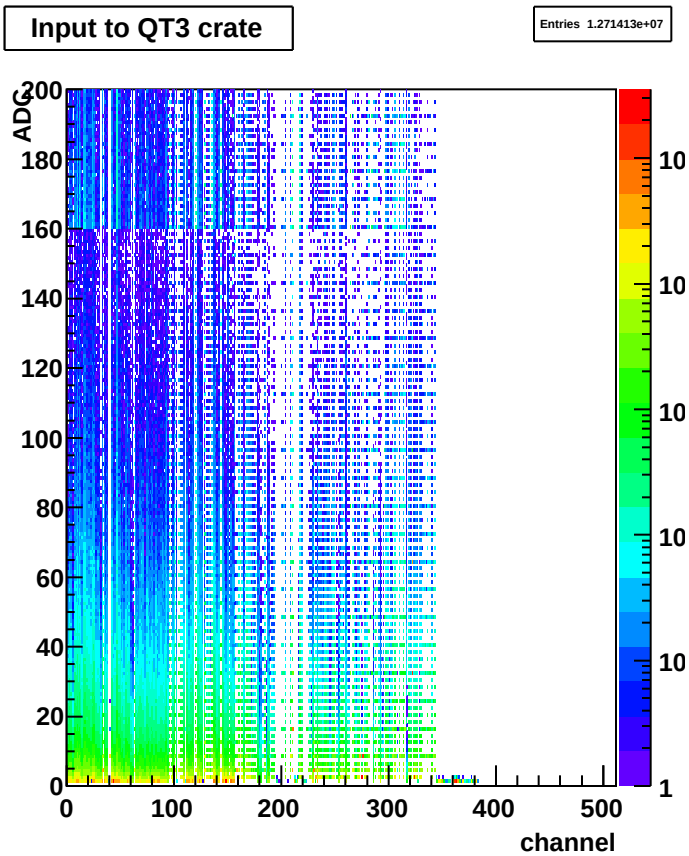

Entries 999989
BBC-S-East ADC Sum
BBC-S-West ADC Sum

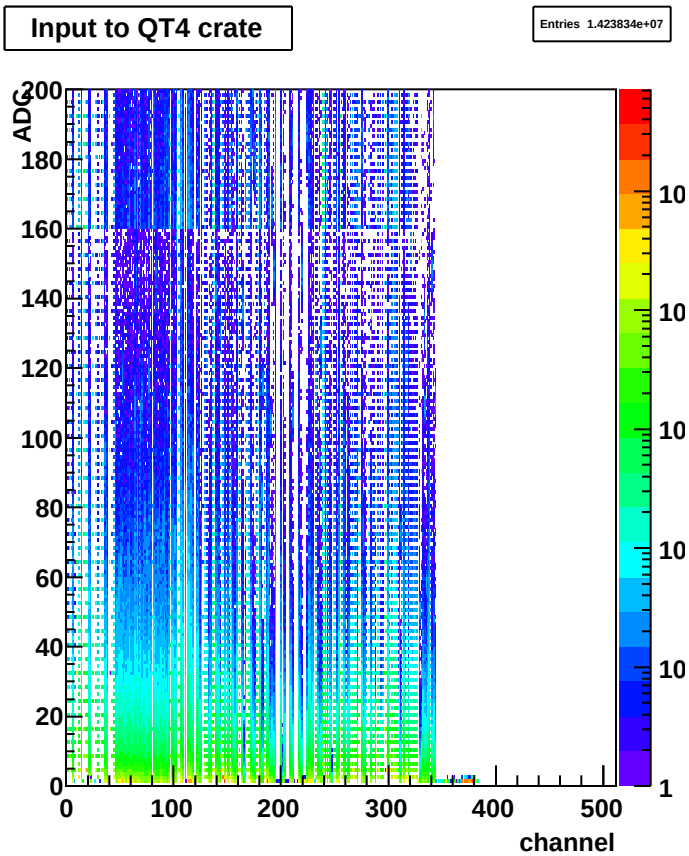

Entries 999989
ZDC East ADC Sum Att
ZDC West ADC Sum Att

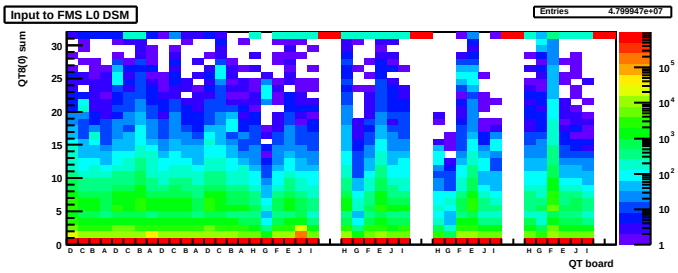

Entries 999989
BBC-L TAC Diff
BCC-S TAC Diff
Entries 999989
BBC-L TAC Diff
VPD TAC Diff
Entries 999989
BBC-L TAC Diff
ZDC TAC Diff
Entries 999989
BBC-S TAC Diff
VPD TAC Diff
Entries 999989
BBC-S TAC Diff
ZDC TAC Diff
Entries 999989
VPD TAC Diff
ZDC TAC Diff

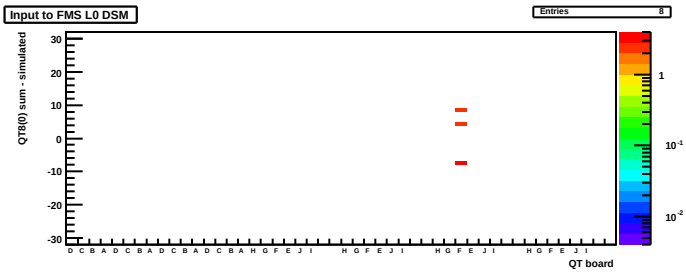

Input to QT1 crate
Entries 1.800458e+07
ADC
channel

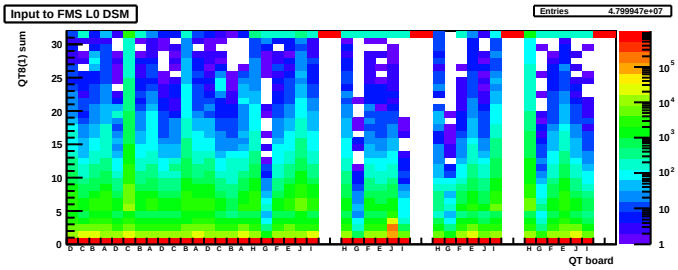

Input to QT2 crate
Entries 1.224059e+07
ADC
channel

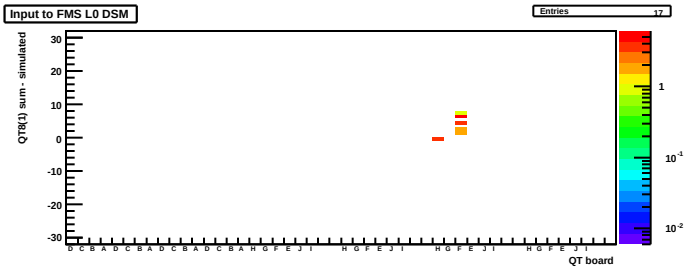

Input to QT3 crate
Entries 1.271413e+07
ADC
channel

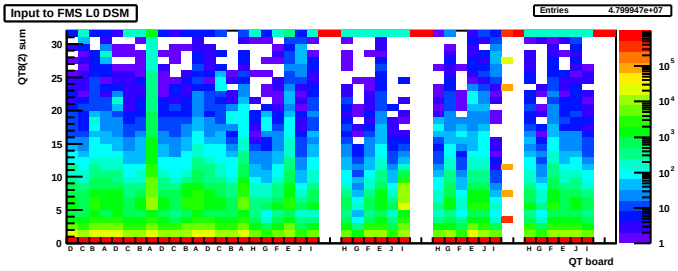

Input to QT4 crate
Entries 1.423834e+07
ADC
channel

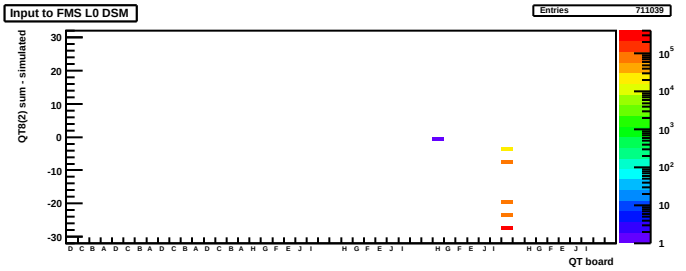

Input to FMS L0 DSM
Entries 4.799947e+07
QT8(0) sum
QT board

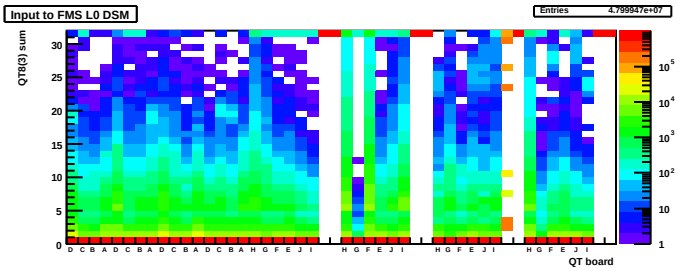

Input to FMS L0 DSM
Entries 8
QT8(0) sum - simulated
QT board

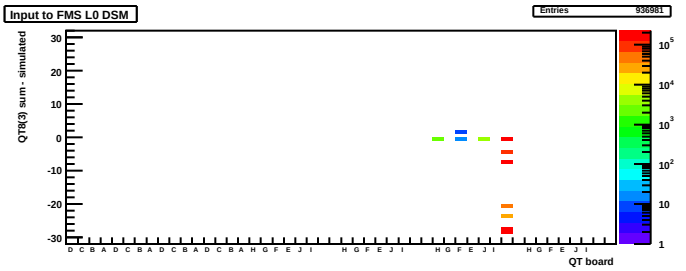

Input to FMS L0 DSM
Entries 4.799947e+07
QT8(1) sum
QT board

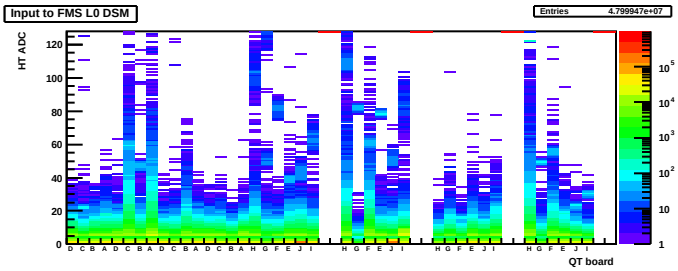

Input to FMS L0 DSM
Entries 17
QT8(1) sum - simulated
QT board

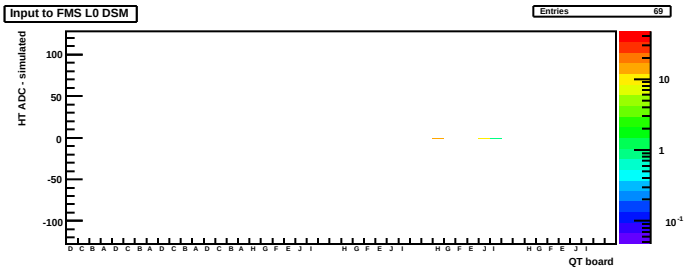

Input to FMS L0 DSM
Entries 4.799947e+07
QT8(2) sum
QT board

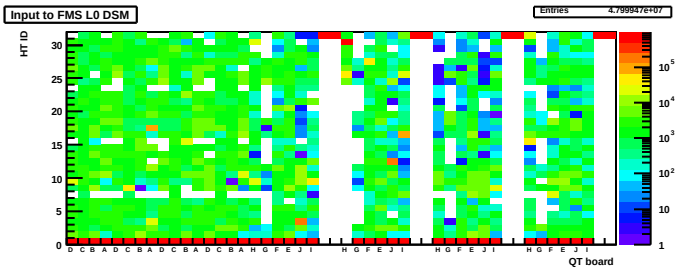

Input to FMS L0 DSM
Entries 711039
QT8(2) sum - simulated
QT board

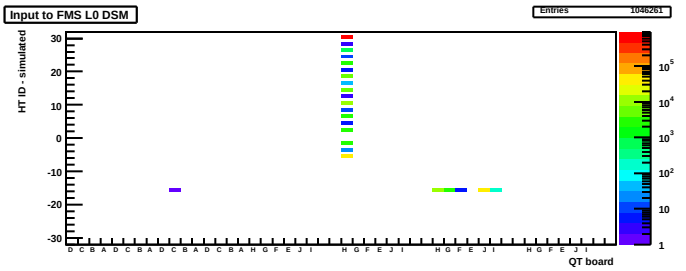

Input to FMS L0 DSM
Entries 4.799947e+07
QT8(3) sum
QT board

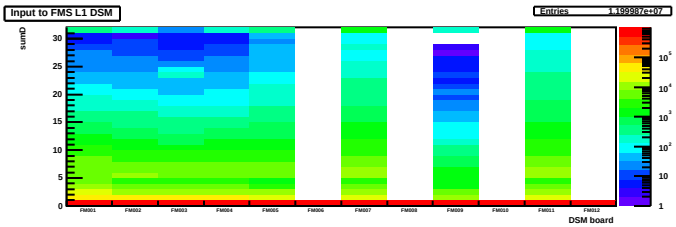

Input to FMS L0 DSM
Entries 936981
QT8(3) sum - simulated
QT board

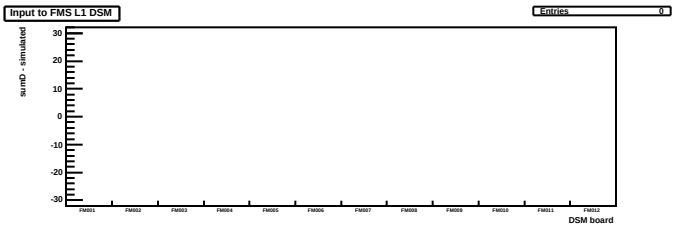

Input to FMS L0 DSM
Entries 4.799947e+07
HT ADC
QT board

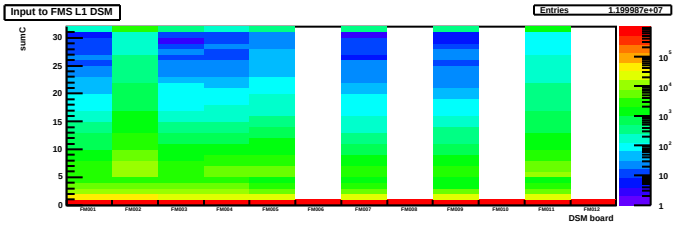

Input to FMS L0 DSM
Entries 69
HT ADC - simulated
QT board

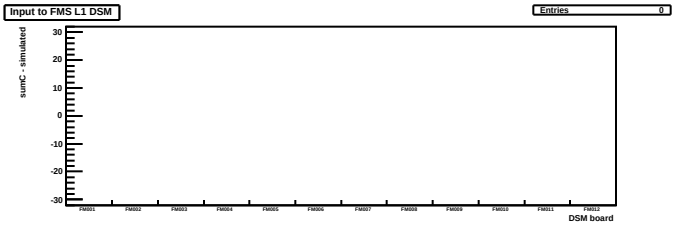

Input to FMS L0 DSM
Entries 4.799947e+07
HT ID
QT board

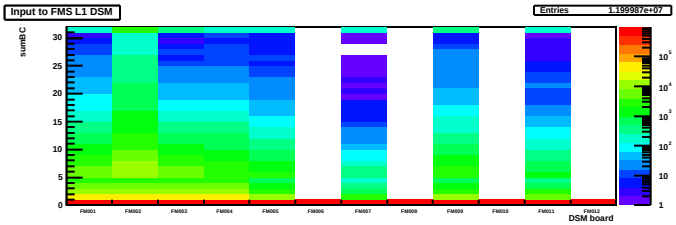

Input to FMS L0 DSM
Entries 1046261
HT ID - simulated
QT board

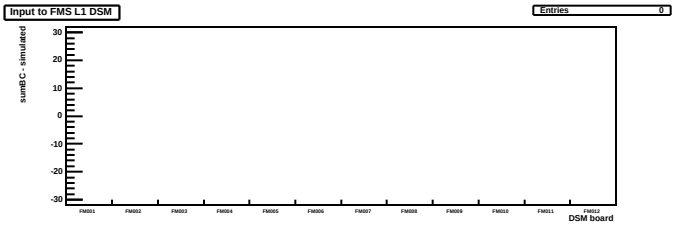

Input to FMS L1 DSM
Entries 1.199987e+07
sumD
DSM board

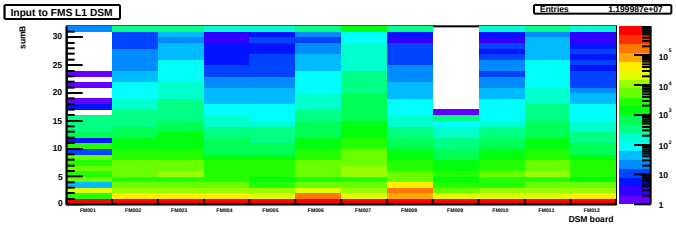

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

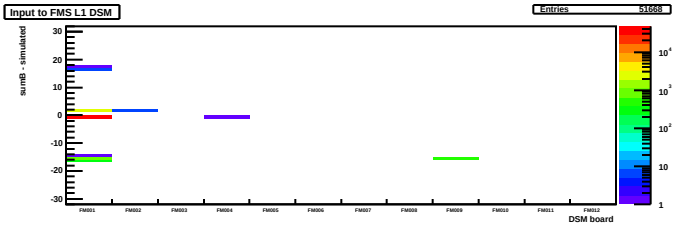

Input to FMS L1 DSM
Entries 1.199987e+07
sumC
DSM board

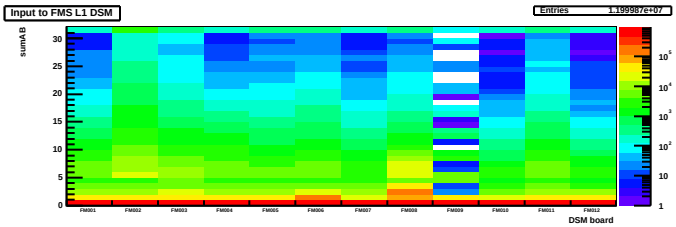

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

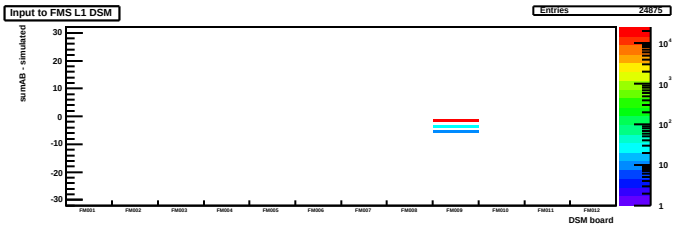

Input to FMS L1 DSM
Entries 1.199987e+07
sumBC
DSM board

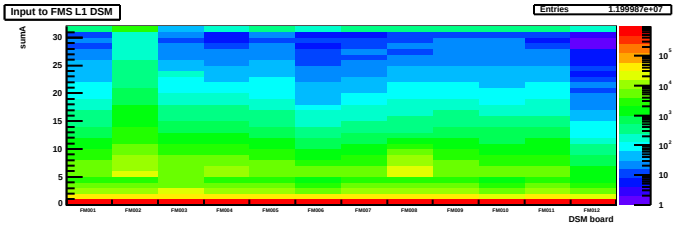

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

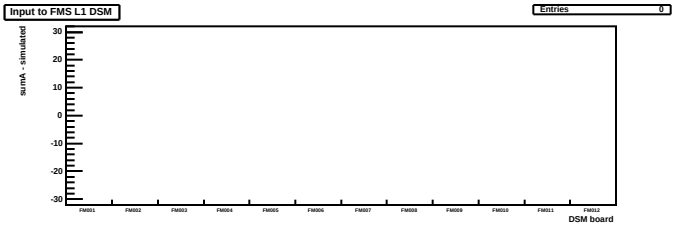

Input to FMS L1 DSM
Entries 1.199987e+07
sumB
DSM board

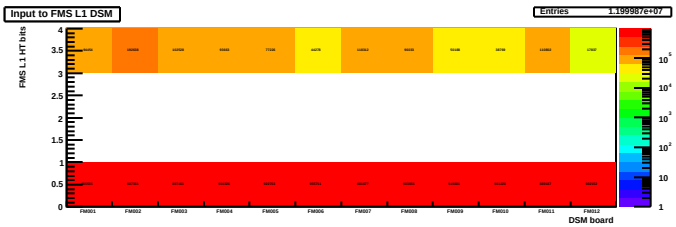

Input to FMS L1 DSM
Entries 51668
sumB - simulated
DSM board

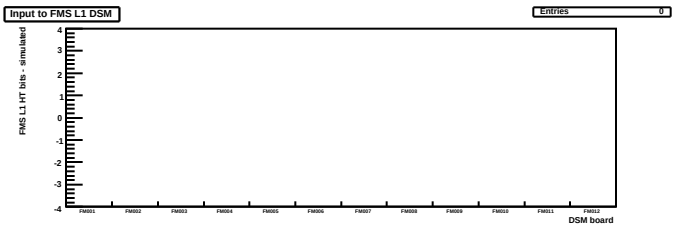

Input to FMS L1 DSM
Entries 1.199987e+07
sumAB
DSM board

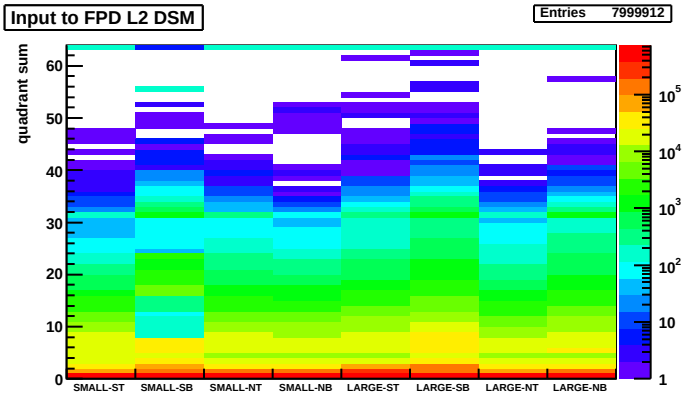

Input to FMS L1 DSM
Entries 24875
sumAB - simulated
DSM board

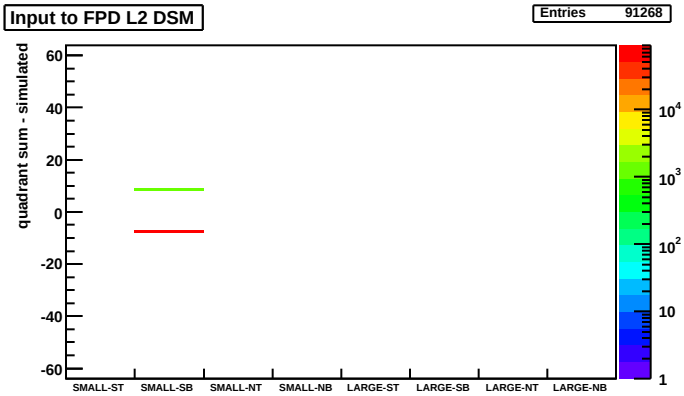

Input to FMS L1 DSM
Entries 1.199987e+07
sumA
DSM board

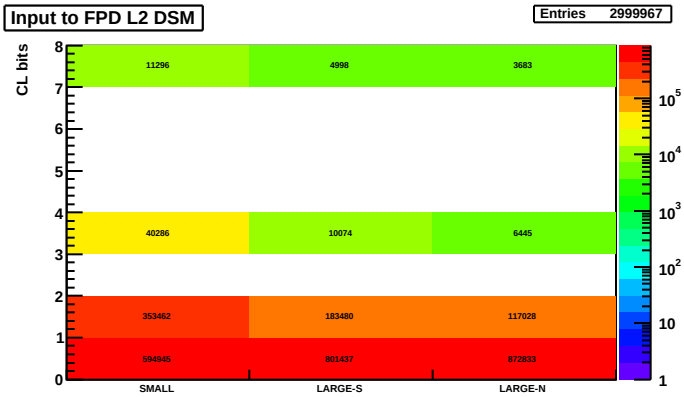

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

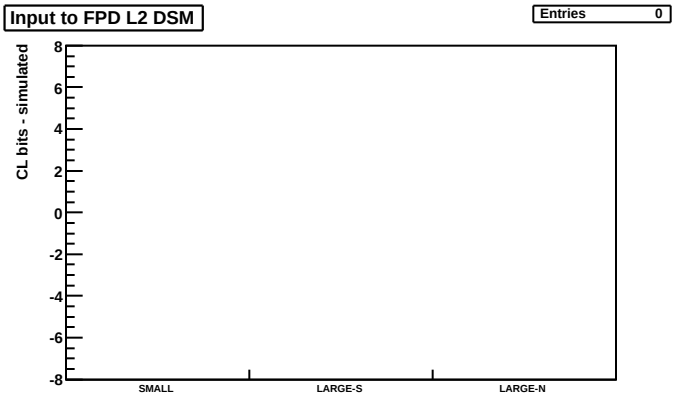

Input to FMS L1 DSM
Entries 1.199987e+07
FMS L1 HT bits
DSM board

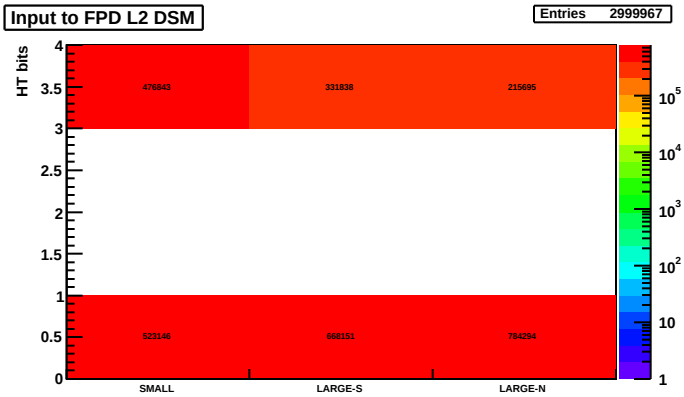

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

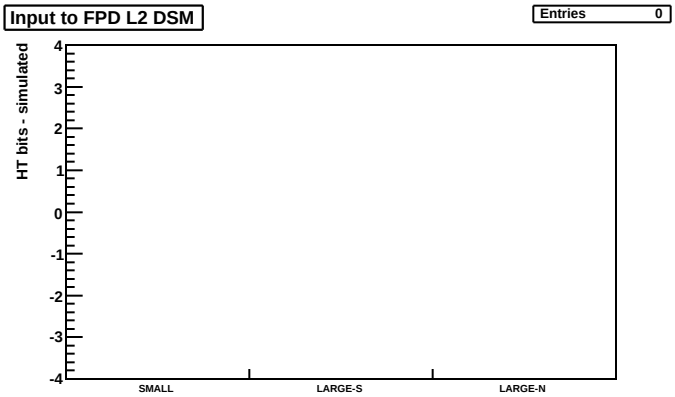

Input to FPD L2 DSM
Entries 7999912
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

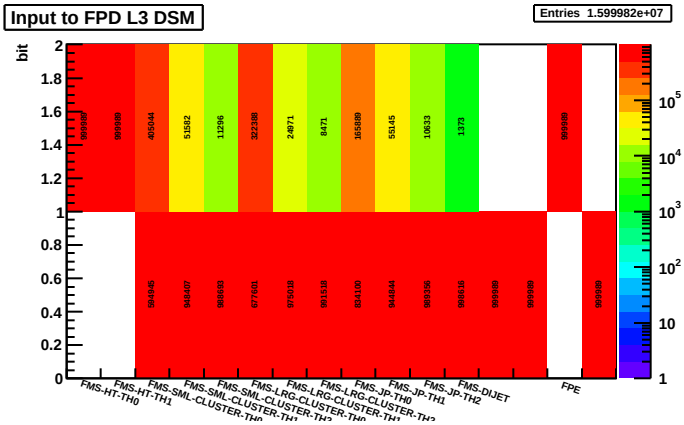

Input to FPD L2 DSM
Entries 91268
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

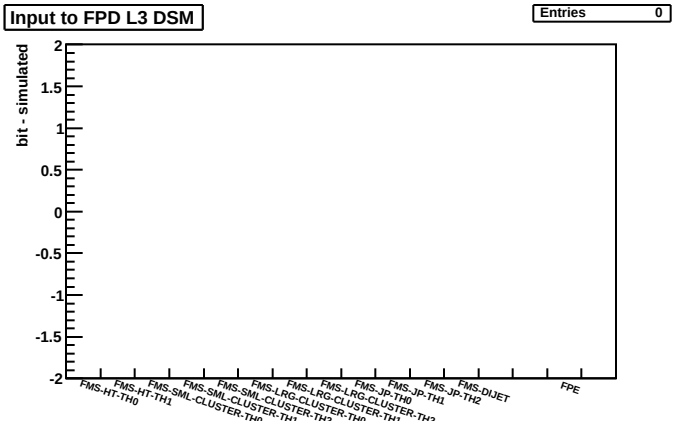

Input to FPD L2 DSM
Entries 2999967
CL bits
11296
4998
3683
40286
10074
6445
353462
183480
117028
594945
801437
872833
SMALL
LARGE-S
LARGE-N

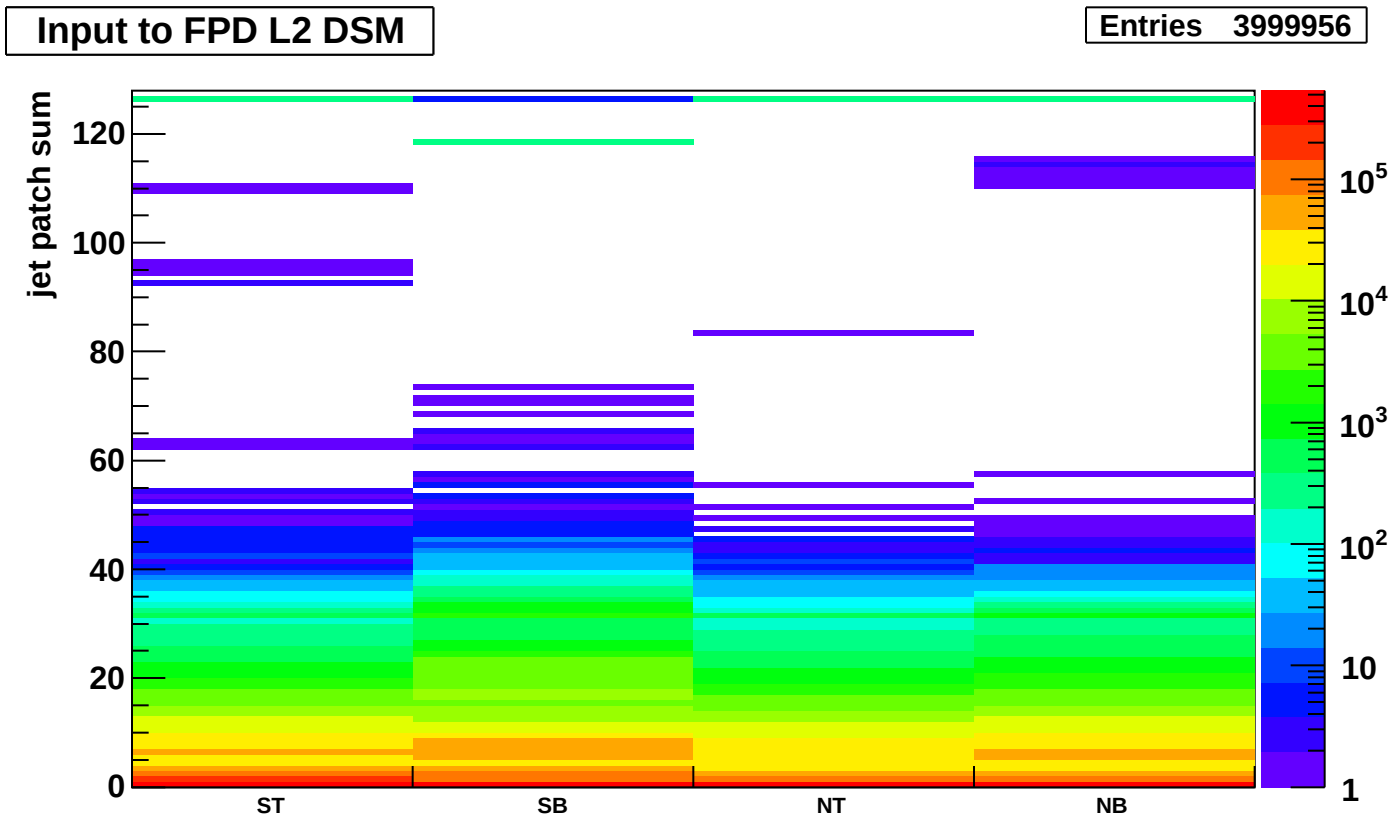

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

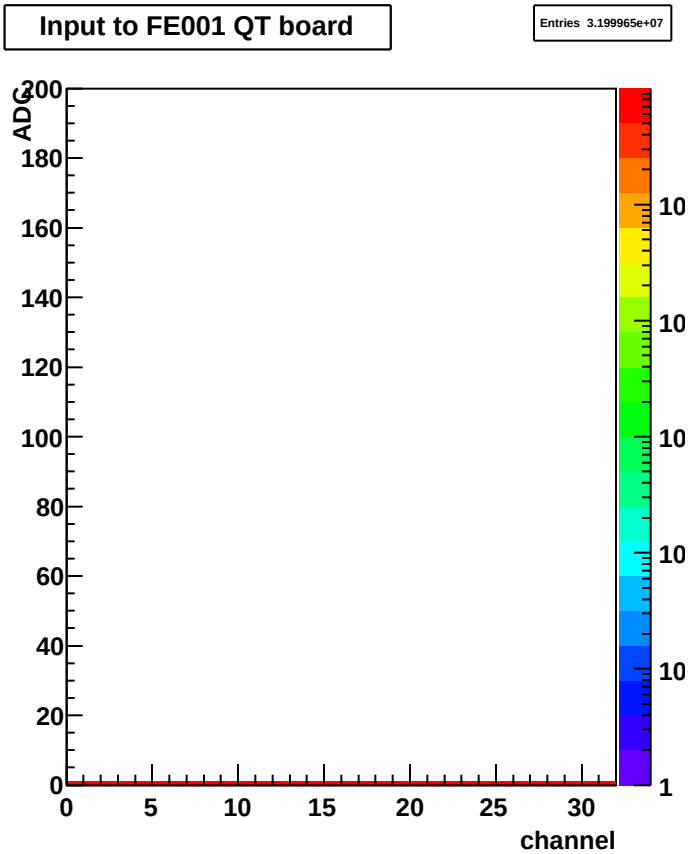

Input to FPD L2 DSM
Entries 2999967
HT bits
476843
331838
215695
523146
668151
784294
SMALL
LARGE-S
LARGE-N

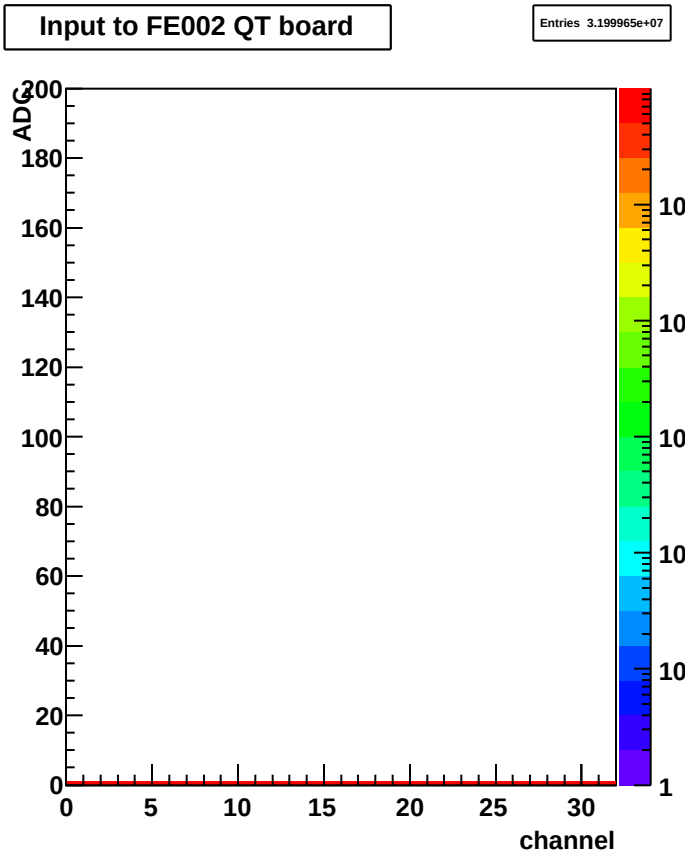

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

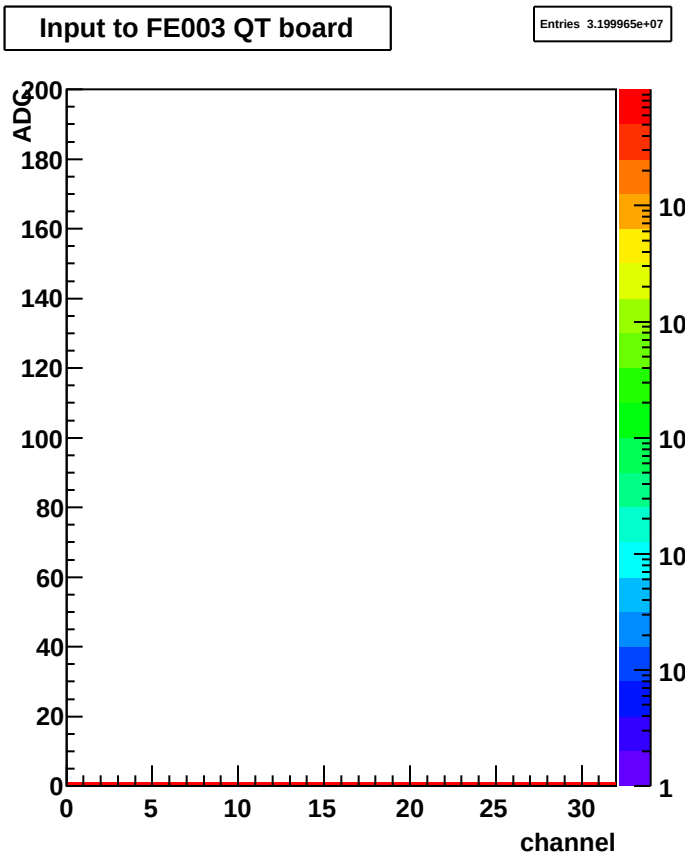

Input to FPD L3 DSM
Entries 1.599982e+07
bit
999989
999989
405544
51582
11296
322388
24071
8471
165689
55145
10633
1373
999989
594945
948407
988693
677601
975018
991518
834100
948044
989356
988616
999989
999989
999989
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

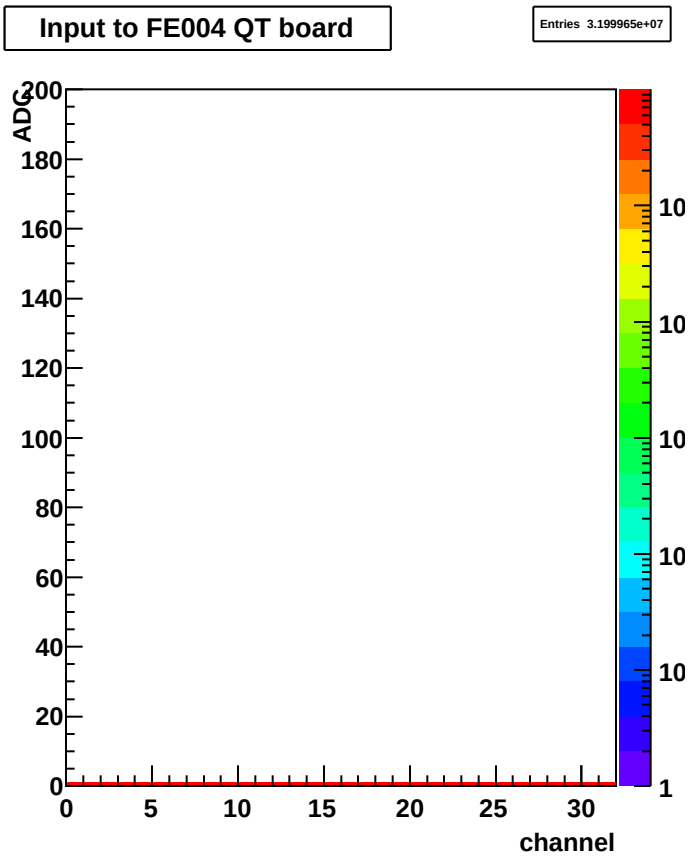

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

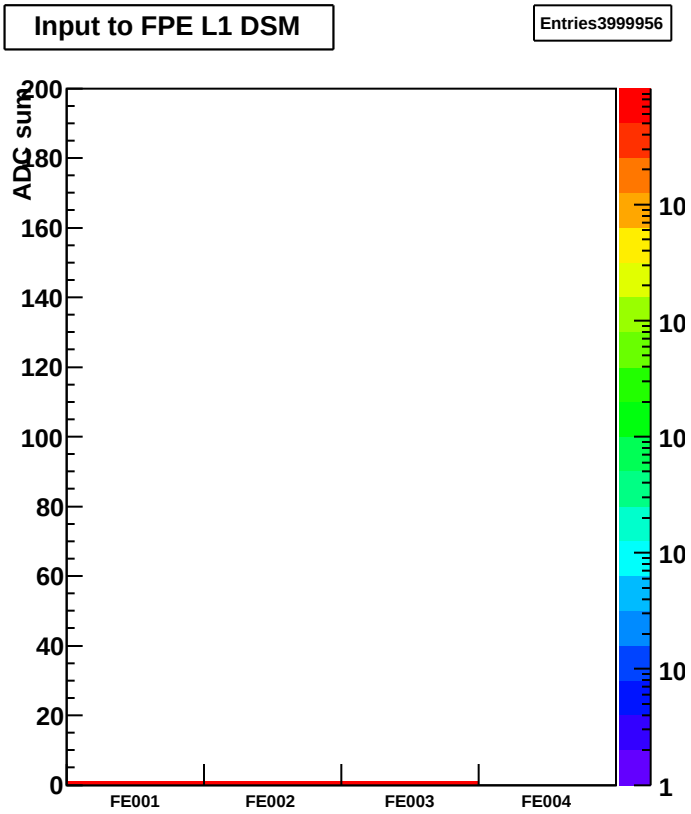

Input to FPD L2 DSM
Entries 3999956
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

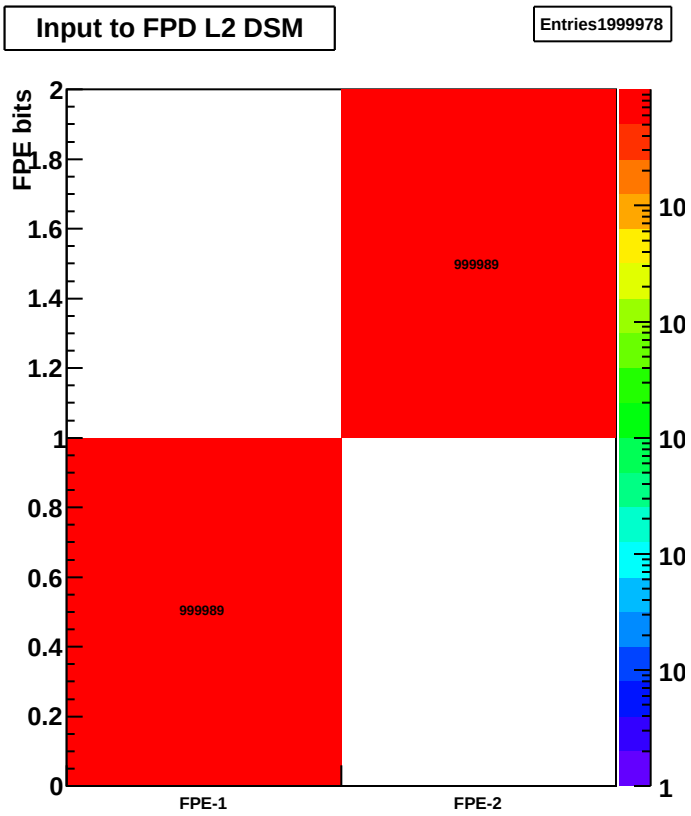

Input to FE001 QT board
Entries 3.199965e+07
ADC
channel

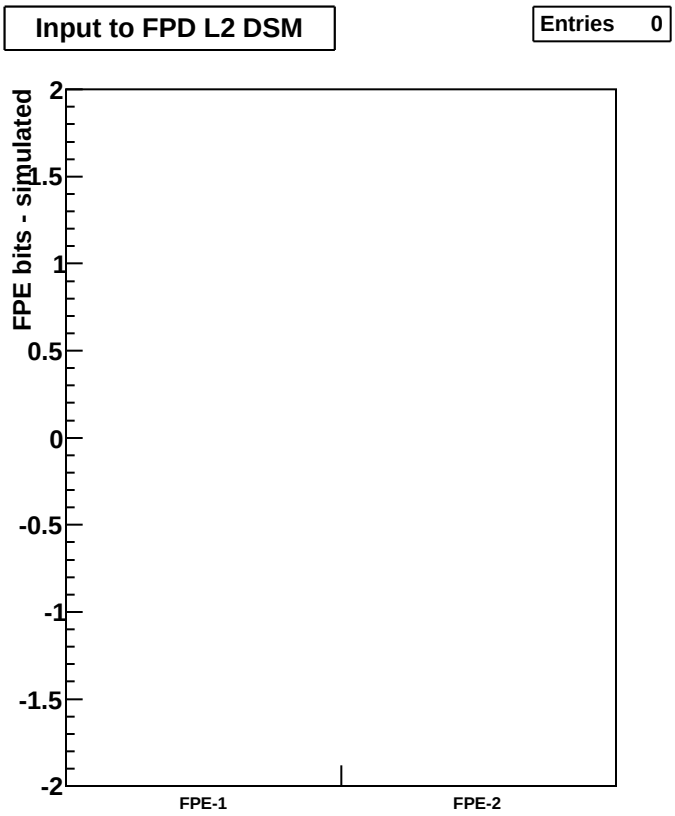

Input to FE002 QT board
Entries 3.199965e+07
ADC
channel


Input to FE003 QT board
Entries 3.199965e+07
ADC
channel


Input to FE004 QT board
Entries 3.199965e+07
ADC
channel


Input to FPE L1 DSM
Entries3999956
ADC sum
200
180
160
140
120
100
80
60
40
20
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


Input to FPD L2 DSM
Entries1999978
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
999989
999989
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