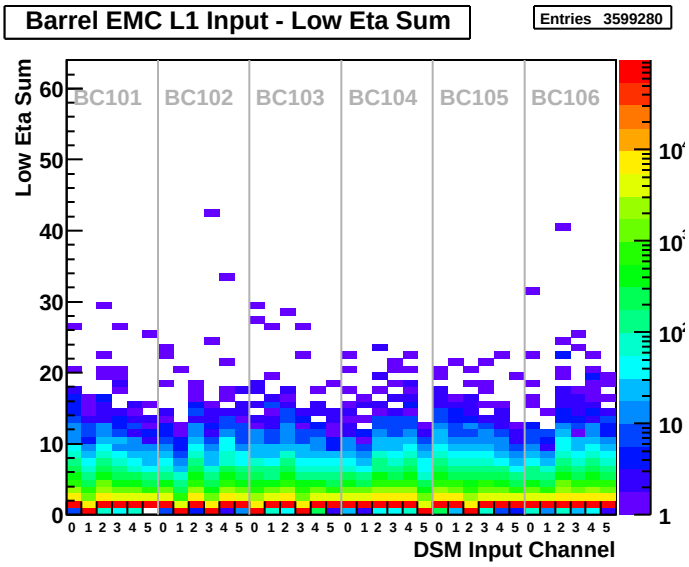
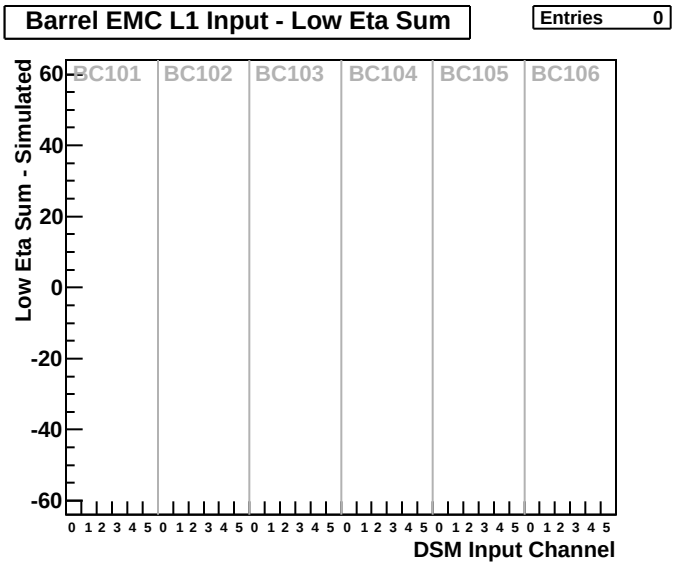
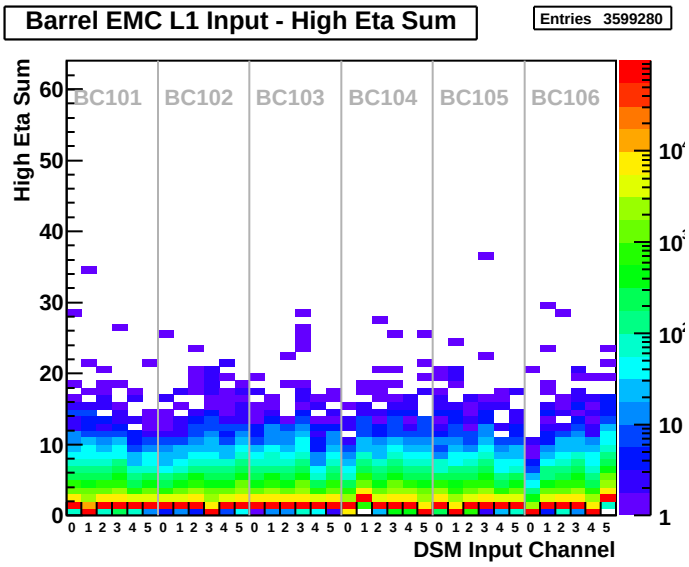
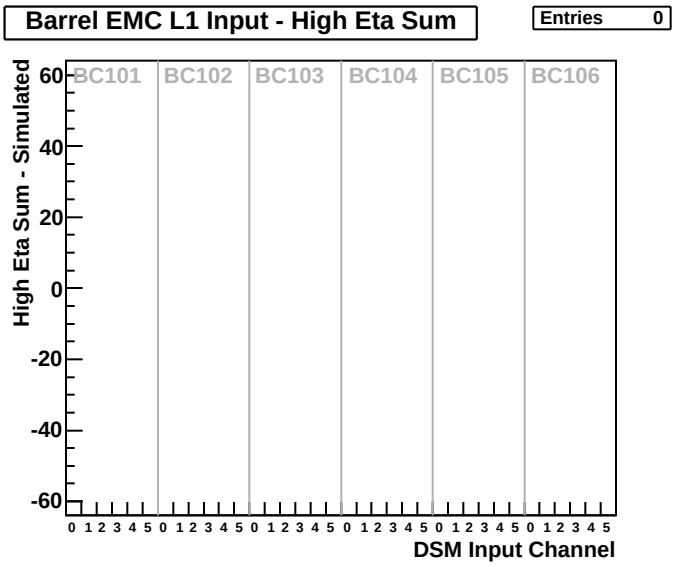
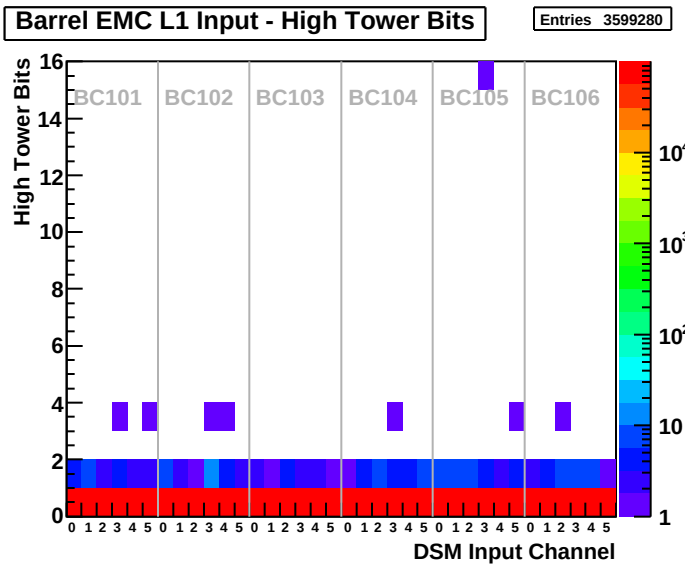
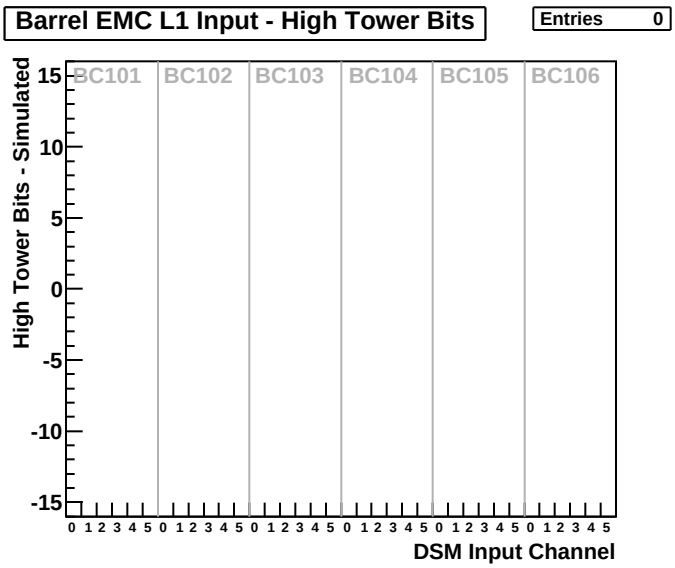

Barrel EMC L1 Input - Low Eta Sum
Entries 3599280
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

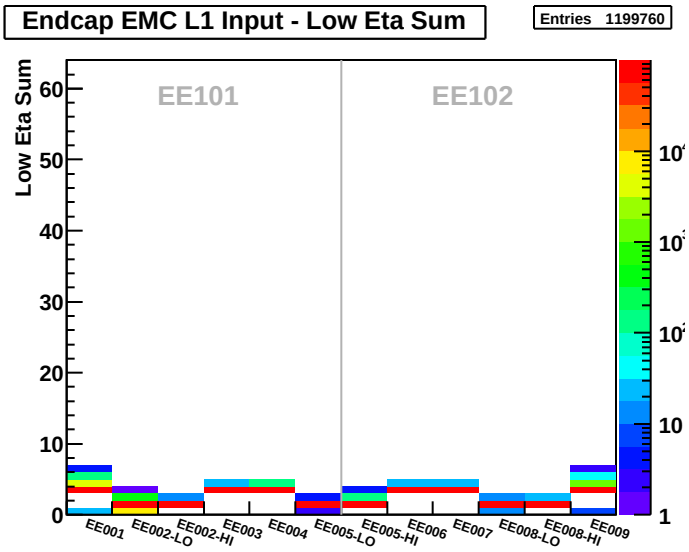

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

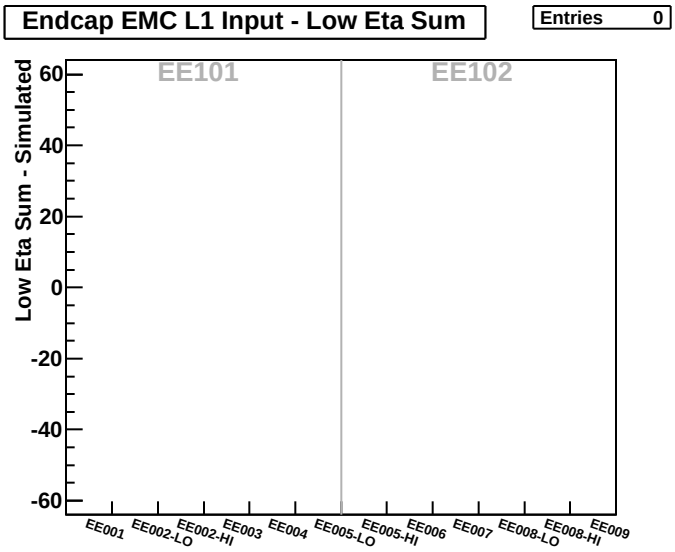

Barrel EMC L1 Input - High Eta Sum
Entries 3599280
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

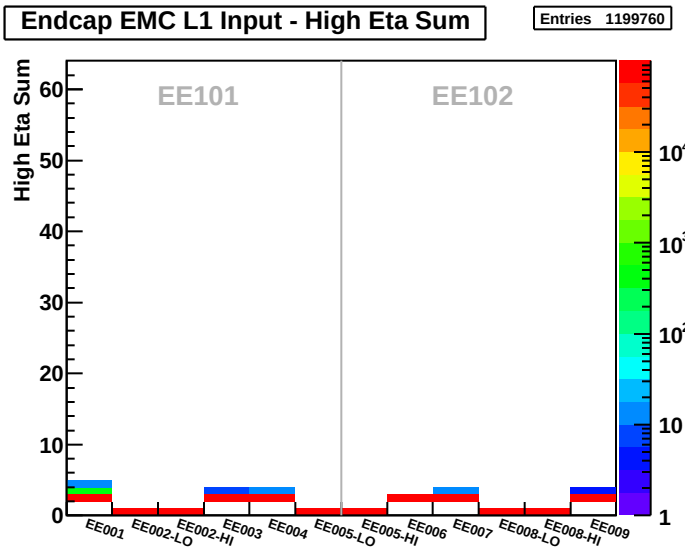

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

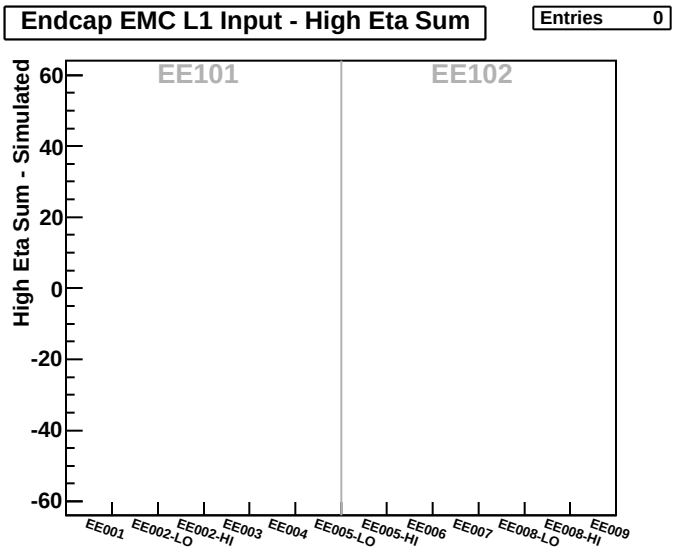

Barrel EMC L1 Input - High Tower Bits
Entries 3599280
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

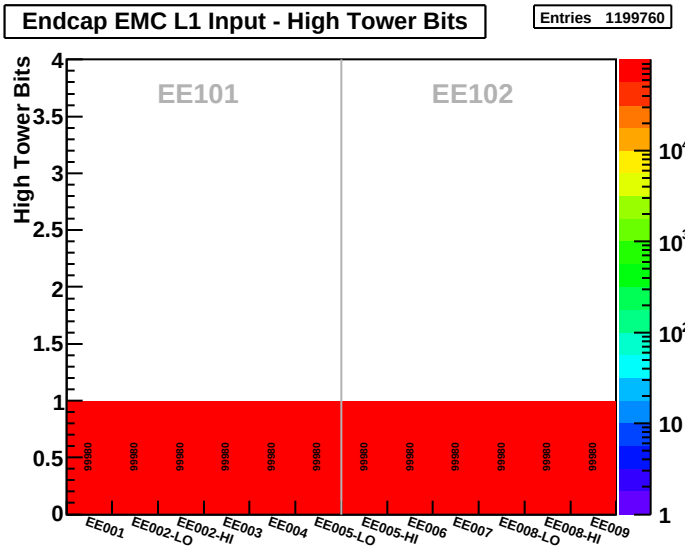

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

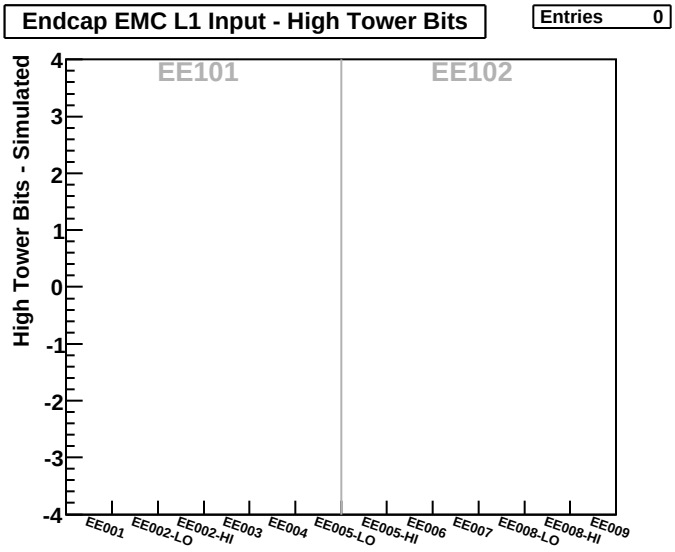

Endcap EMC L1 Input - Low Eta Sum
Entries 1199760
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

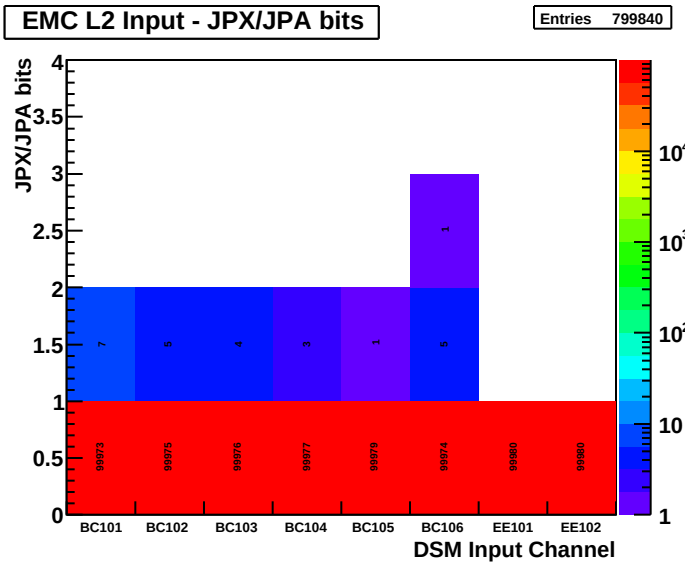

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

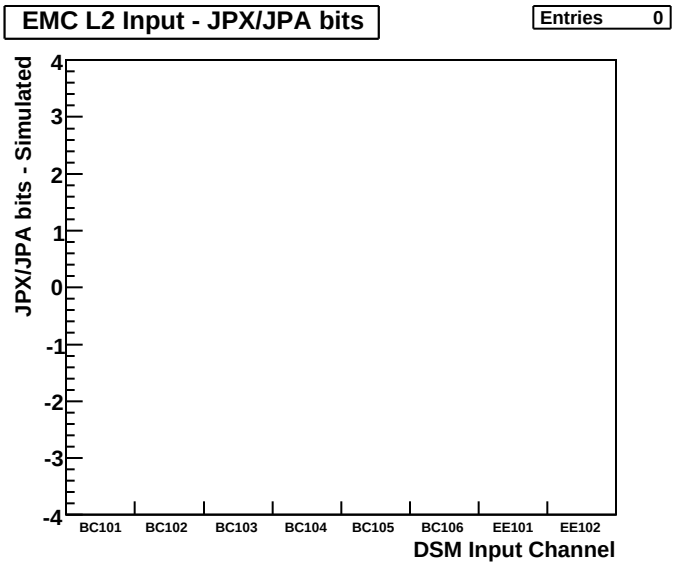

Endcap EMC L1 Input - High Eta Sum
Entries 1199760
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

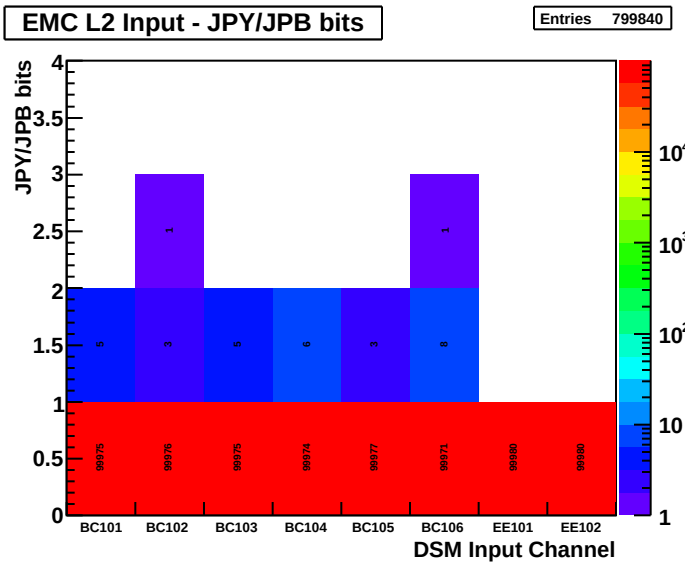

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

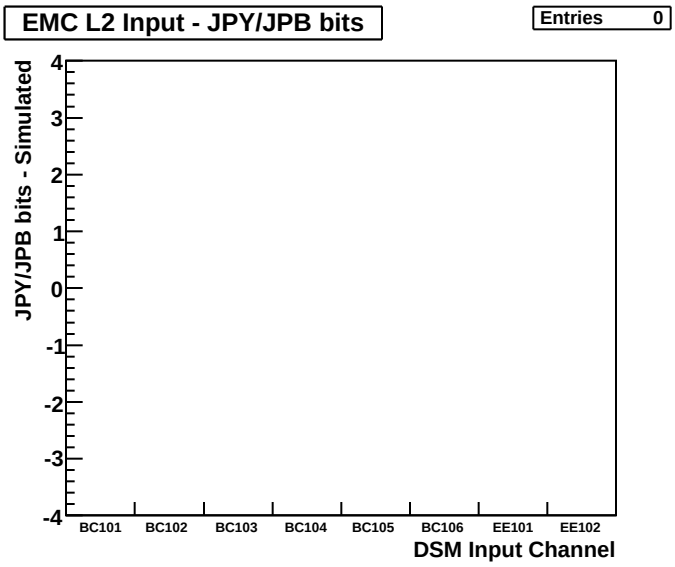

Endcap EMC L1 Input - High Tower Bits
Entries 1199760
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

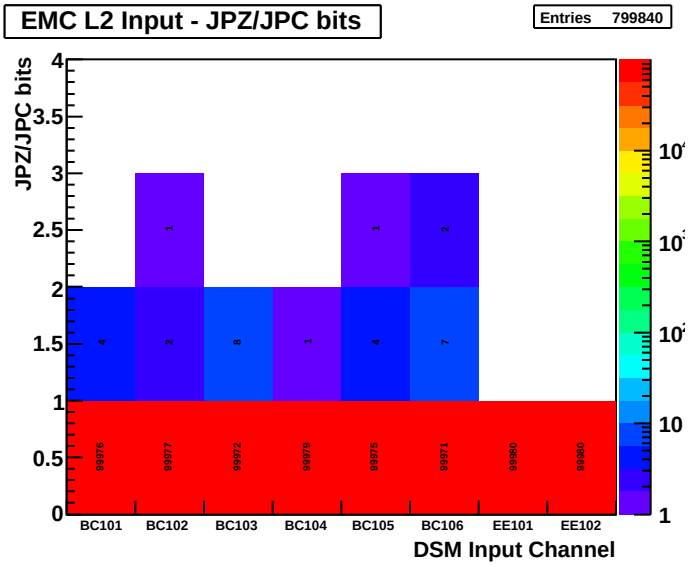

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

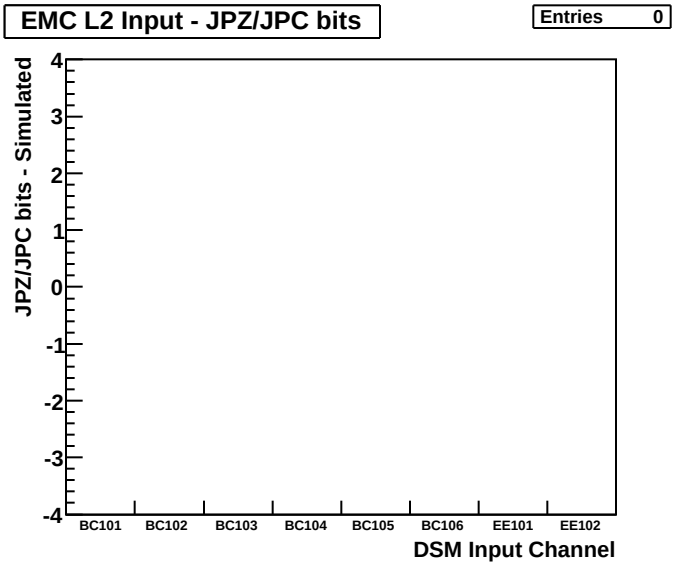

EMC L2 Input - JPX/JPA bits
Entries 799840
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

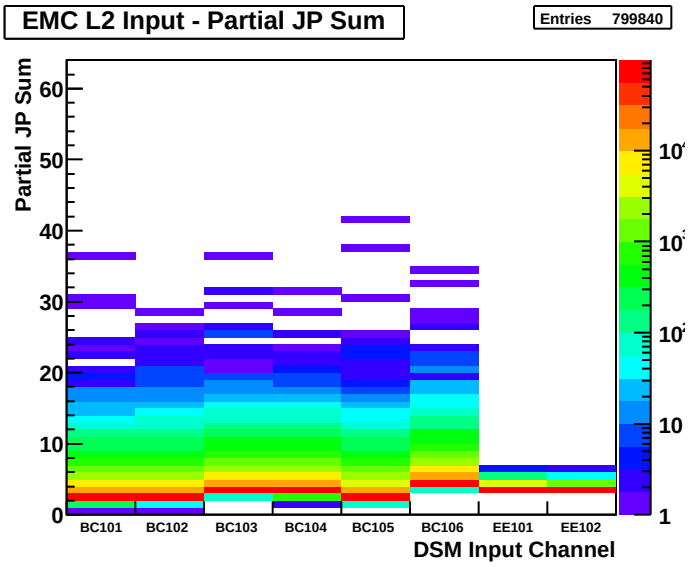

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

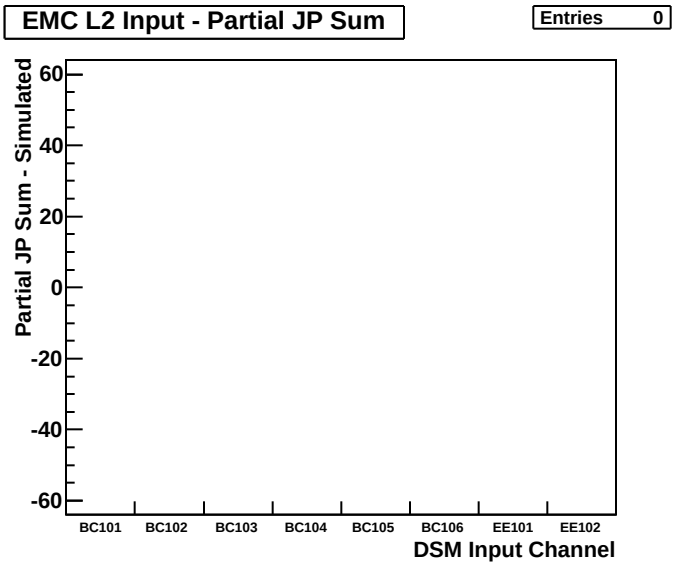

EMC L2 Input - JPY/JPB bits
Entries 799840
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

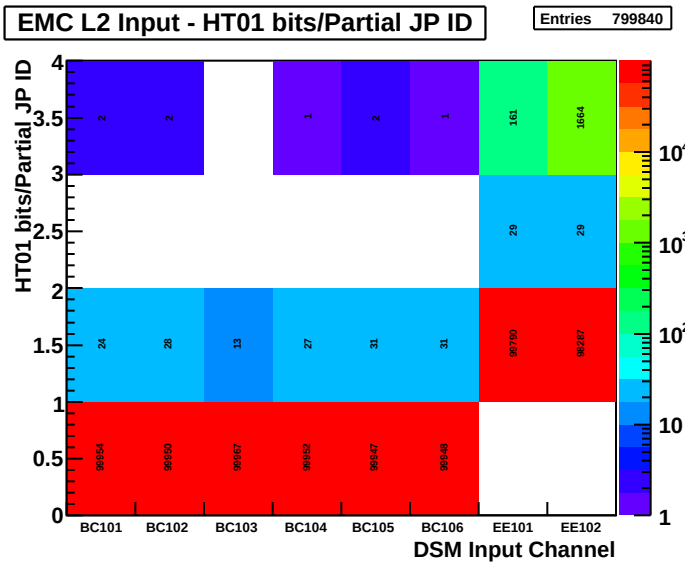

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

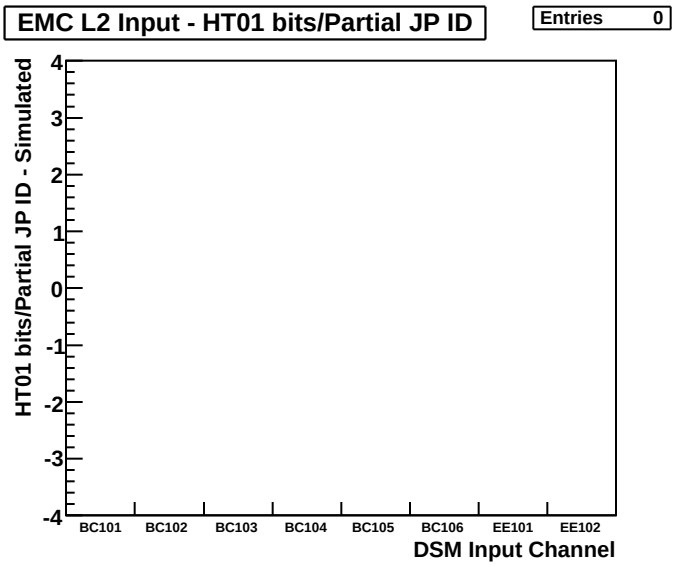

EMC L2 Input - JPZ/JPC bits
Entries 799840
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

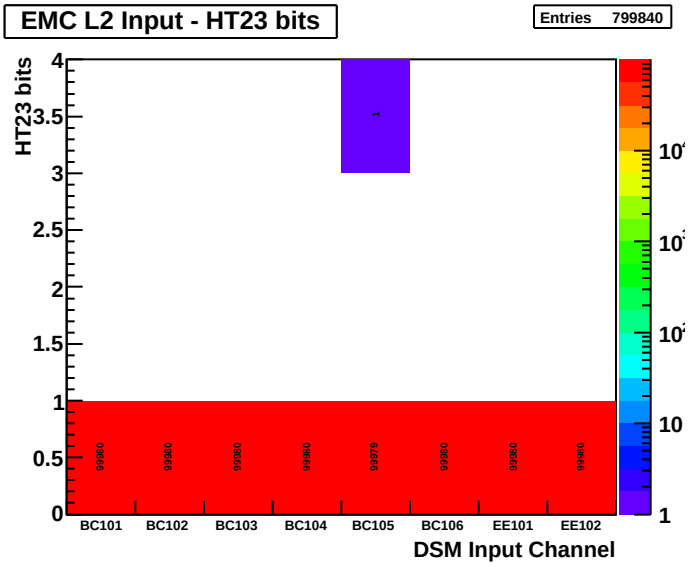

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

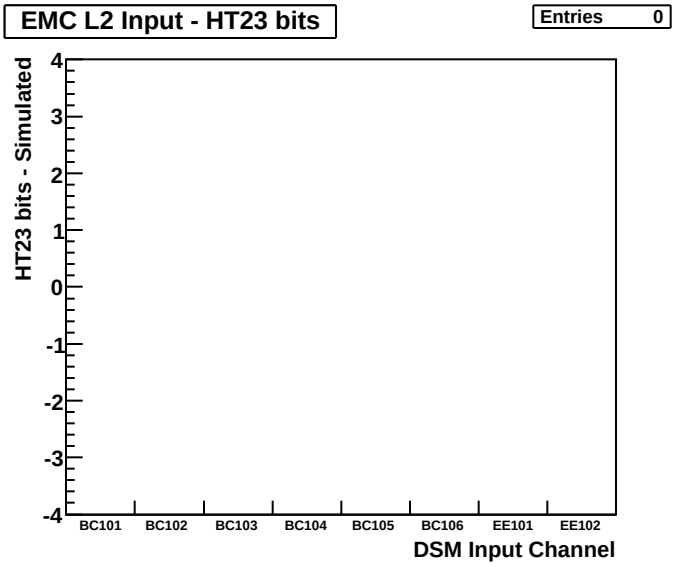

EMC L2 Input - Partial JP Sum
Entries 799840
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

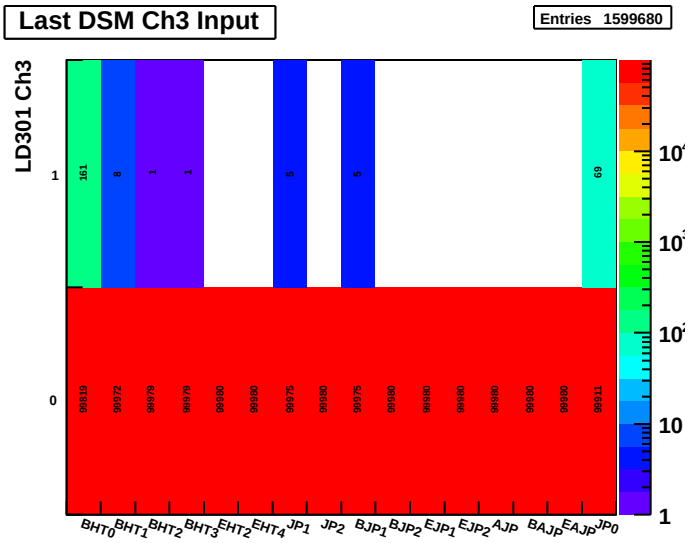

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

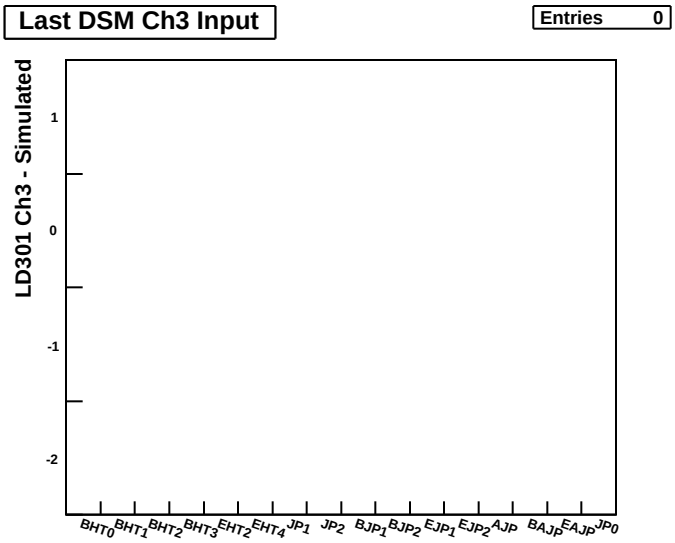

EMC L2 Input - HT01 bits/Partial JP ID
Entries 799840
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

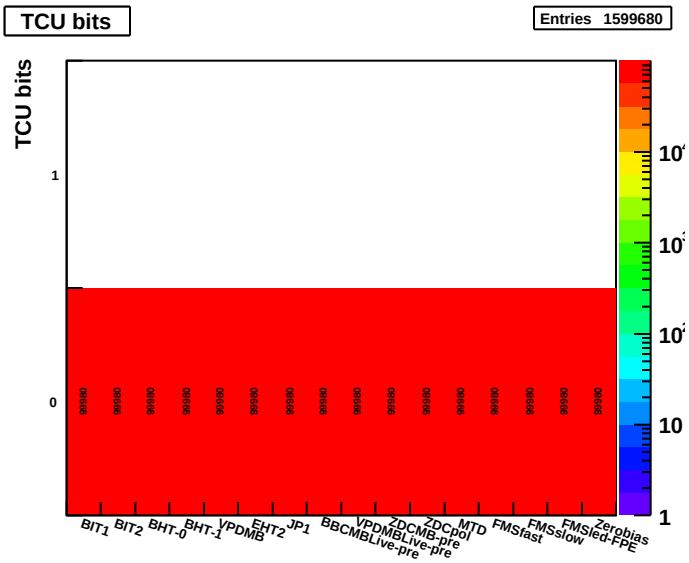

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

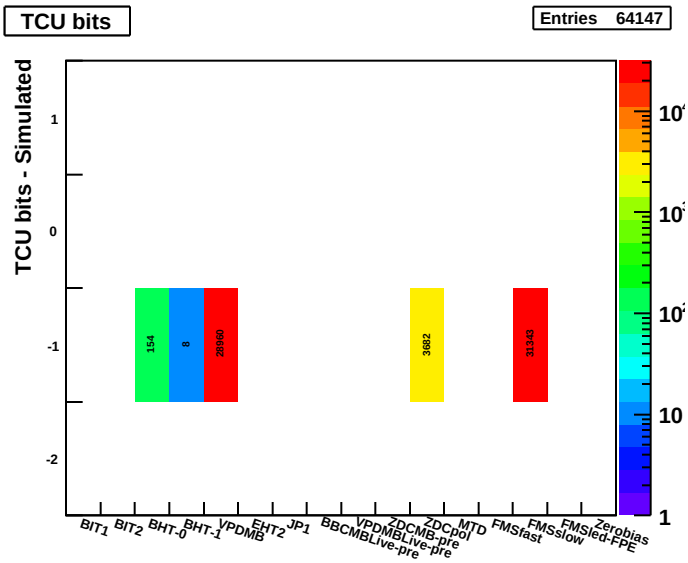

EMC L2 Input - HT23 bits
Entries 799840
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

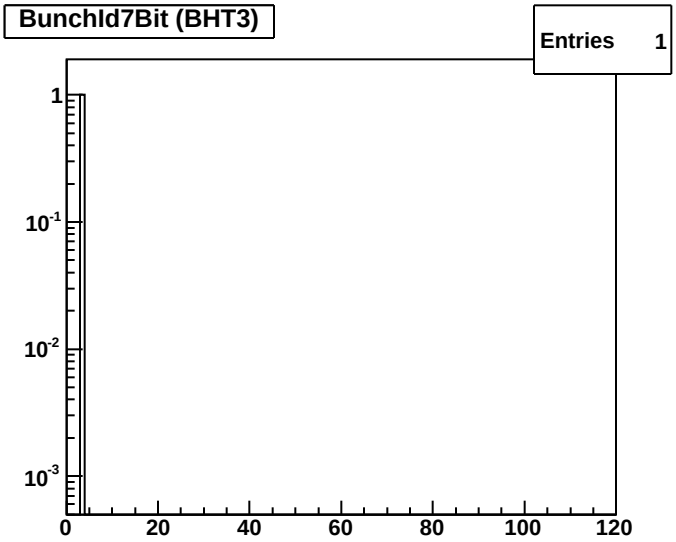

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

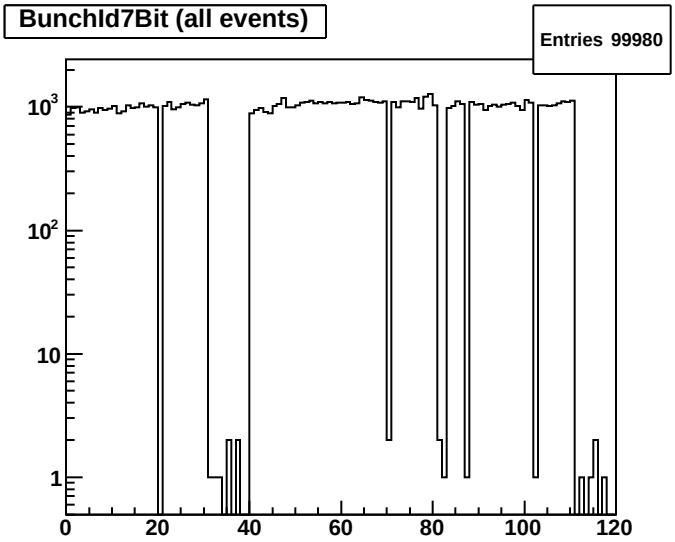

Last DSM Ch3 Input
Entries 1599680
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

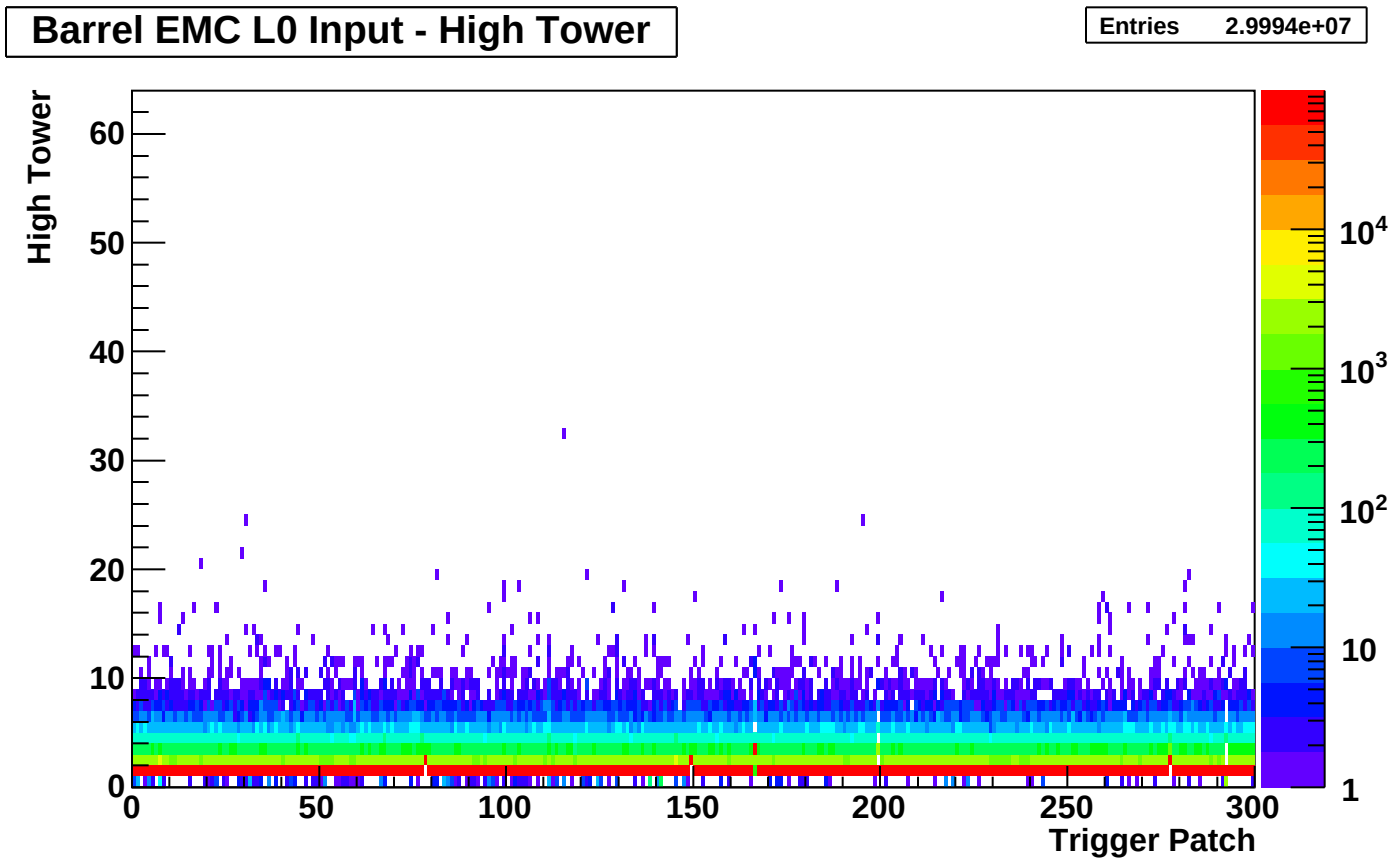

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

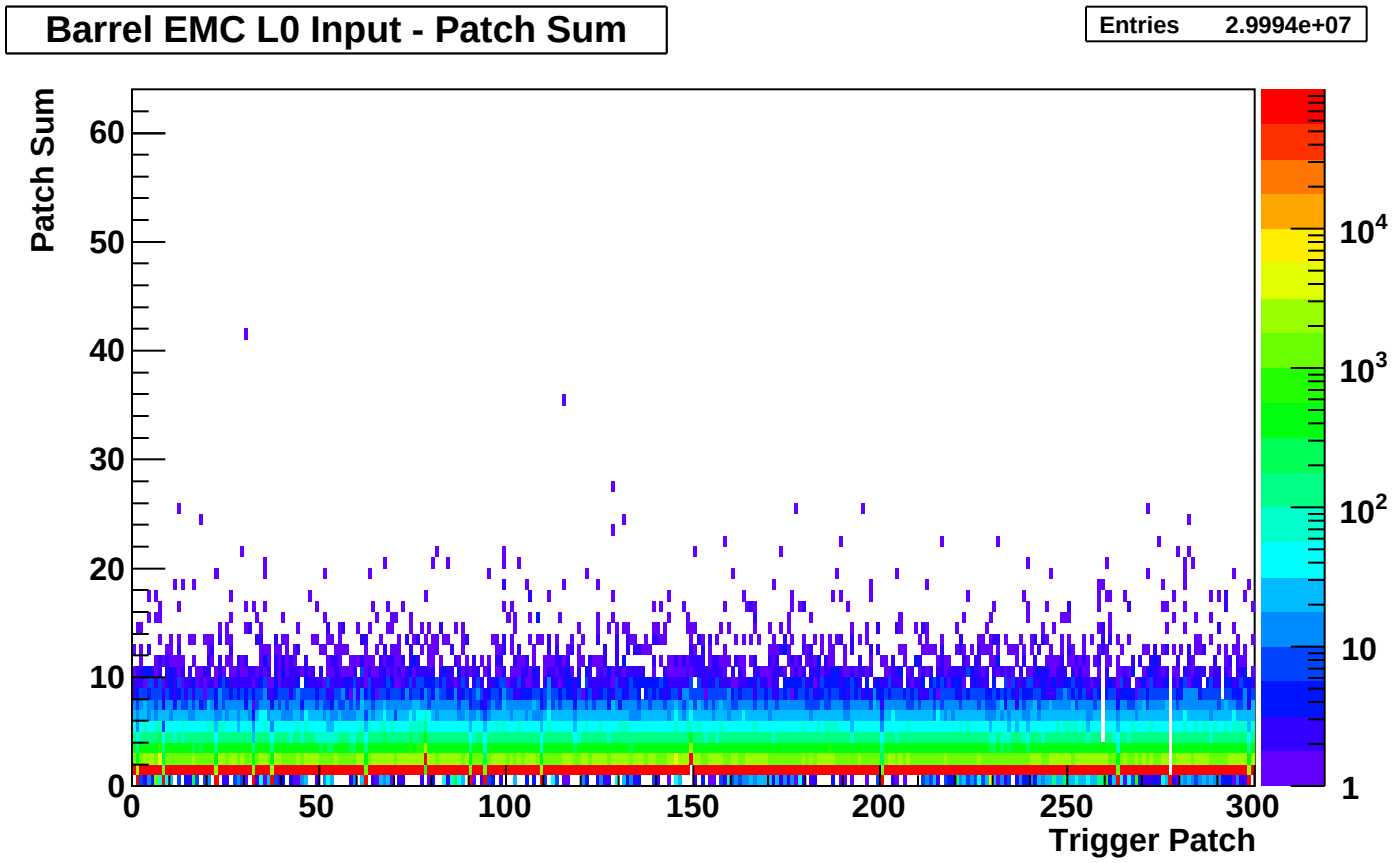

TCU bits
Entries 1599680
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

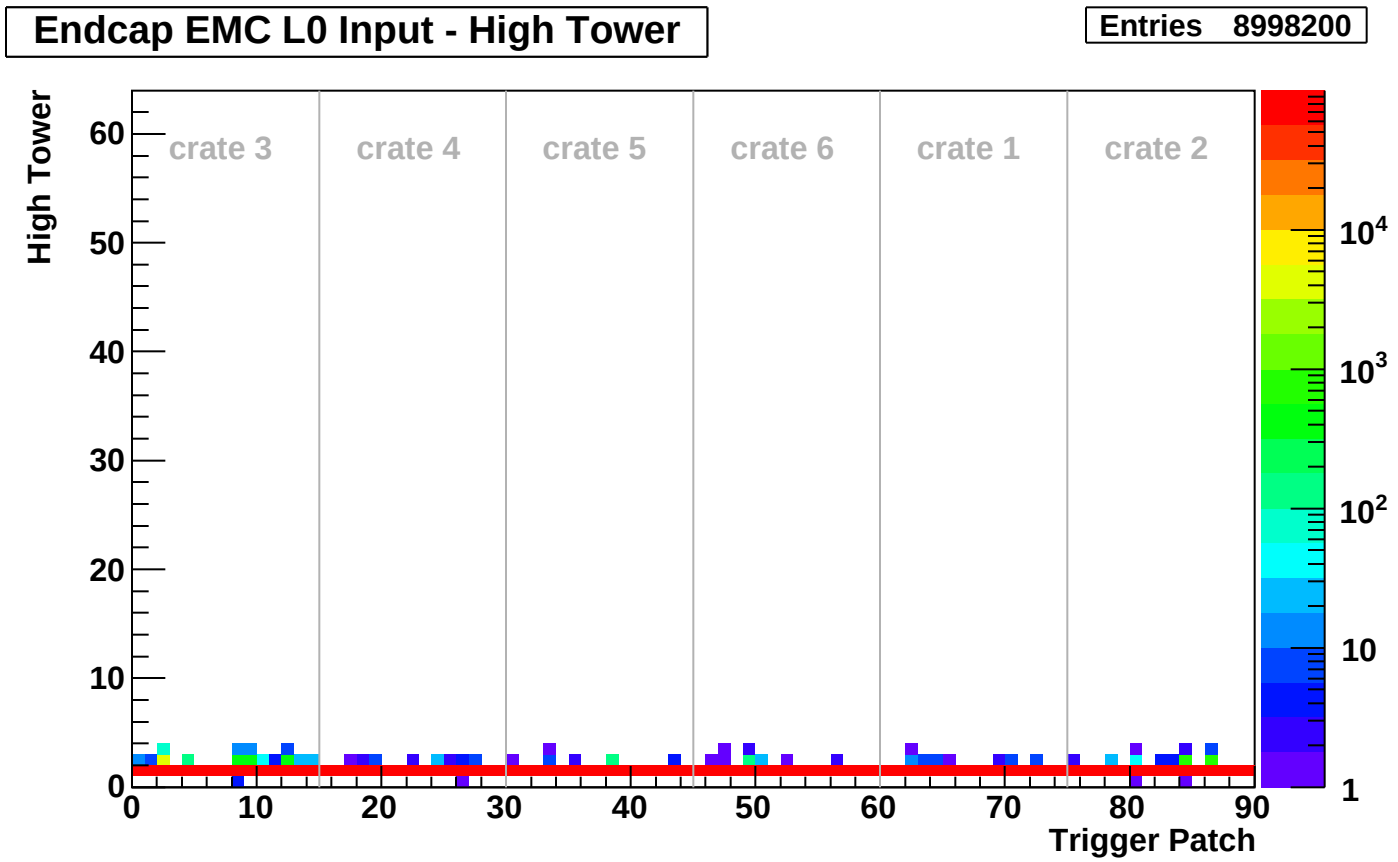

TCU bits
Entries 64147
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

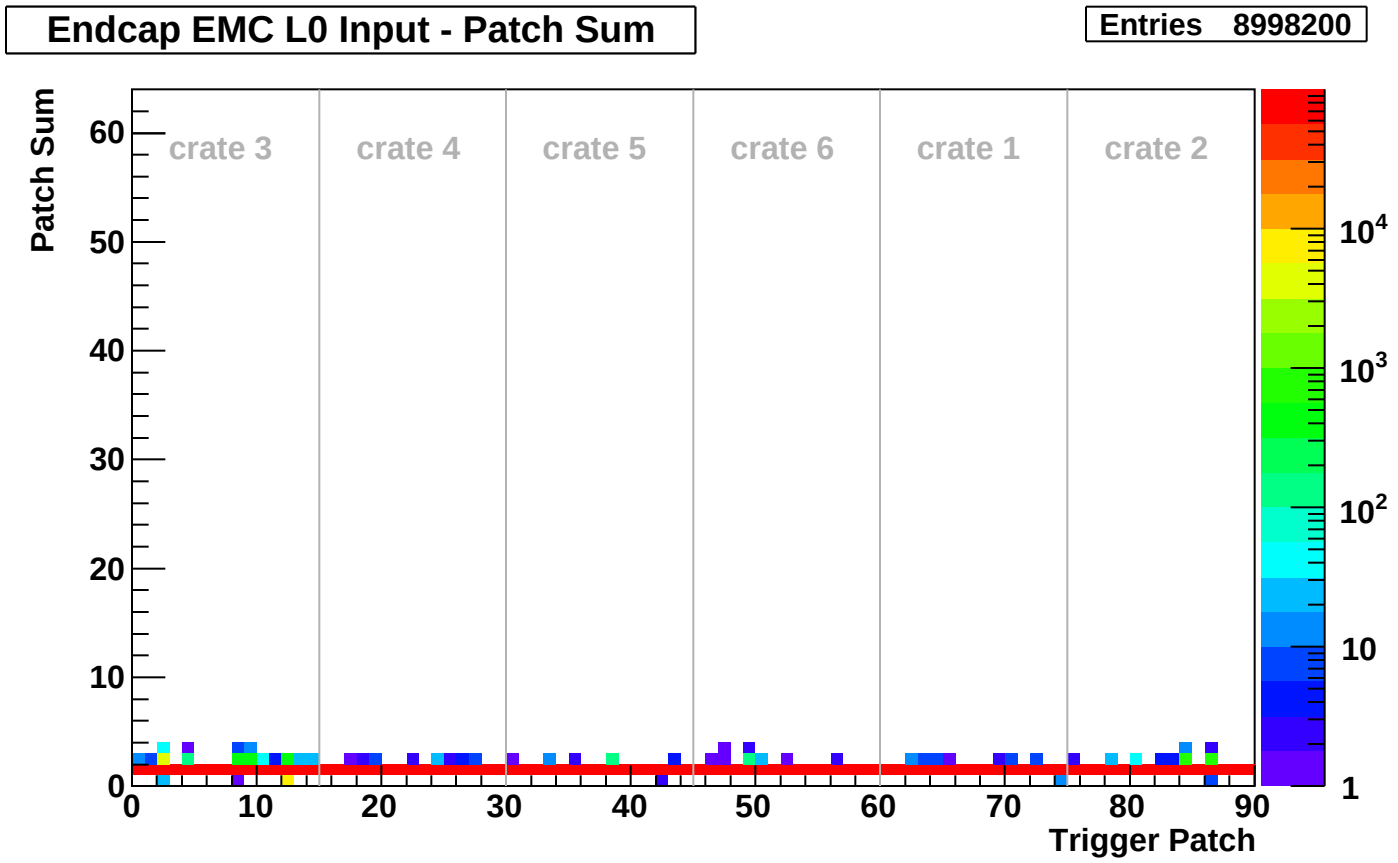

BunchId7Bit (BHT3)
Entries 1

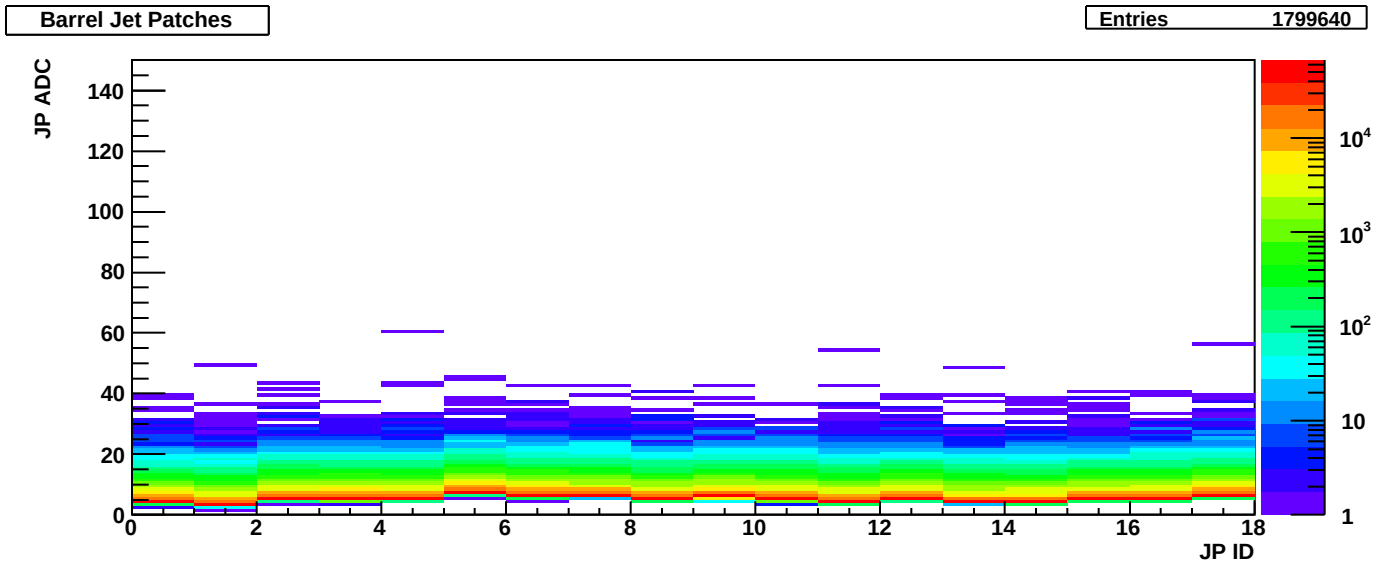

BunchId7Bit (all events)
Entries 99980

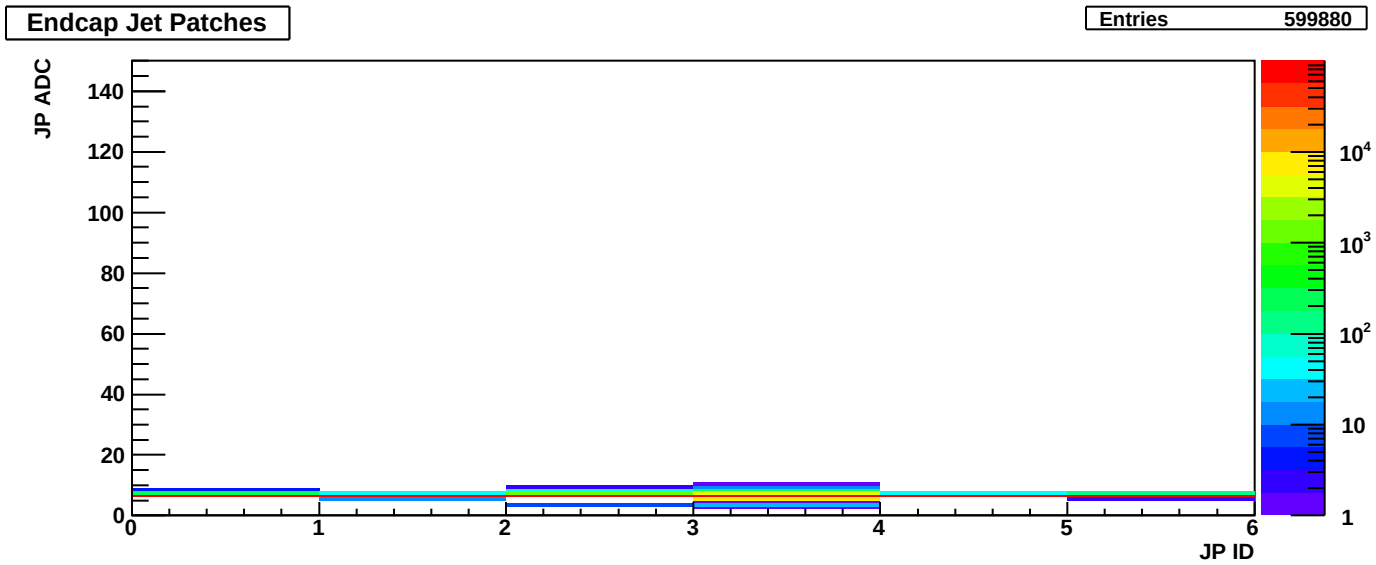

Barrel EMC L0 Input - High Tower
Entries 2.9994e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

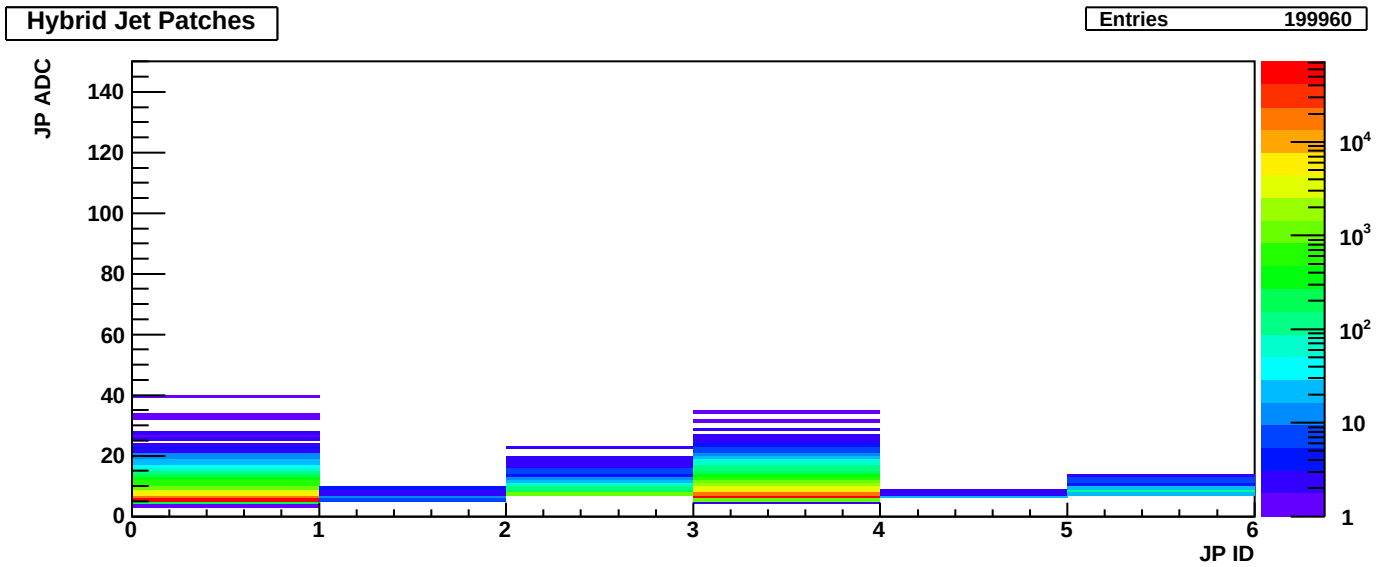

Barrel EMC L0 Input - Patch Sum
Entries 2.9994e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

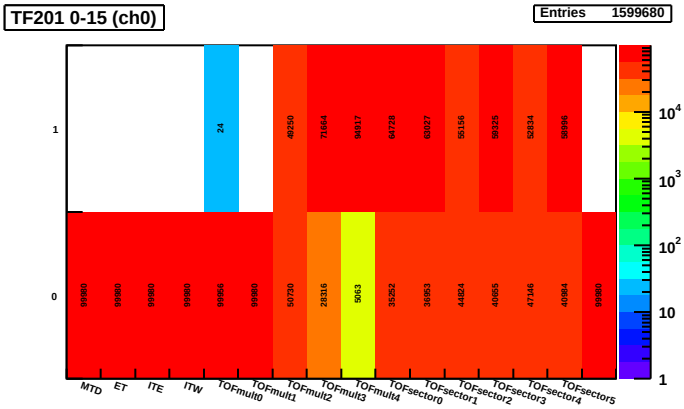

Endcap EMC L0 Input - High Tower
Entries 8998200
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

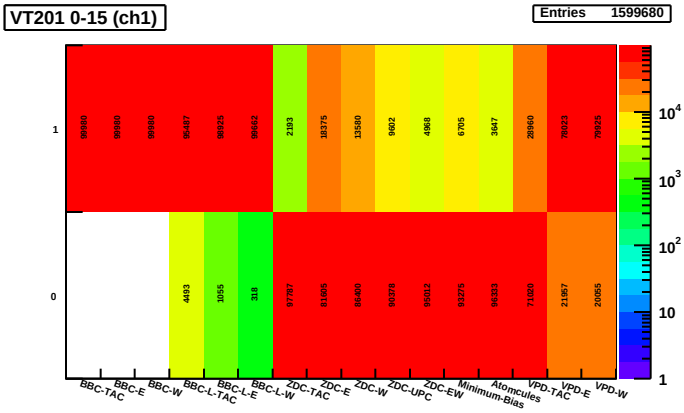

Endcap EMC L0 Input - Patch Sum
Entries 8998200
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

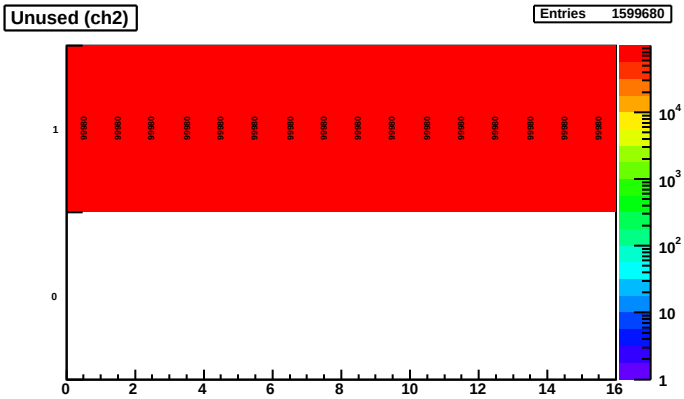

Barrel Jet Patches
Entries 1799640
JP ADC
JP ID

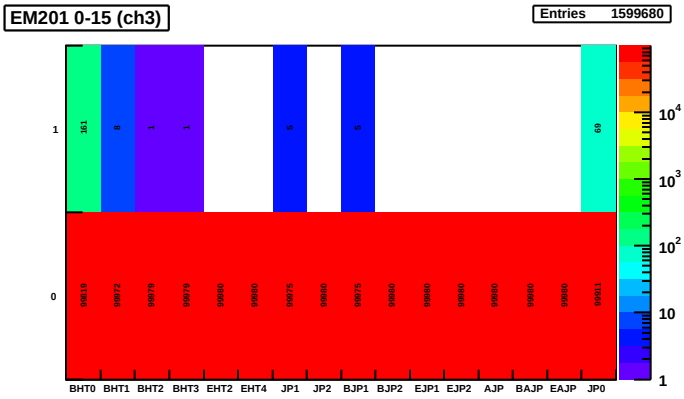

Endcap Jet Patches
Entries 599880
JP ADC
JP ID

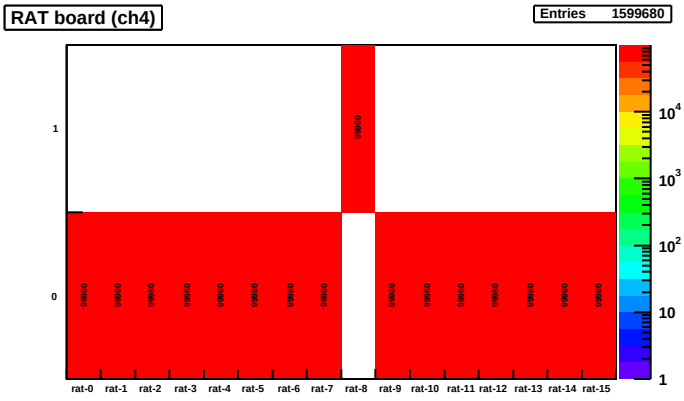

Hybrid Jet Patches
Entries 199960
JP ADC
JP ID

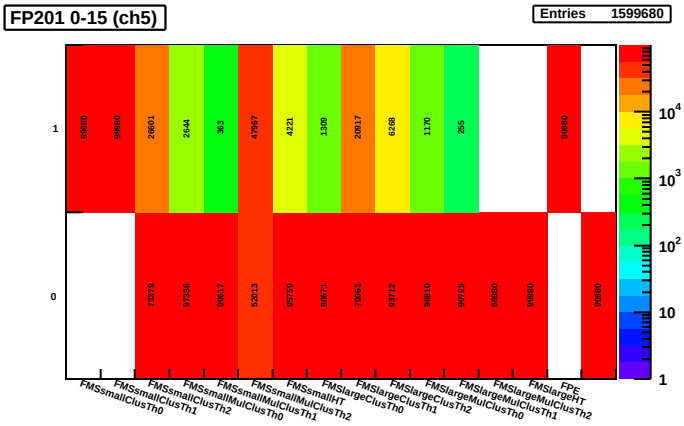

TF201 0-15 (ch0)
Entries 1599680
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

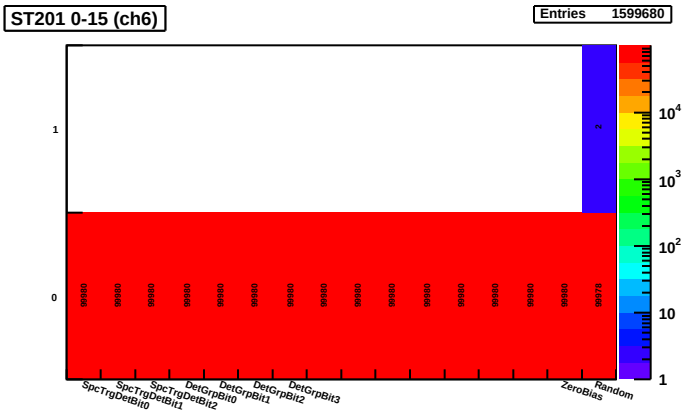

VT201 0-15 (ch1)
Entries 1599680
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

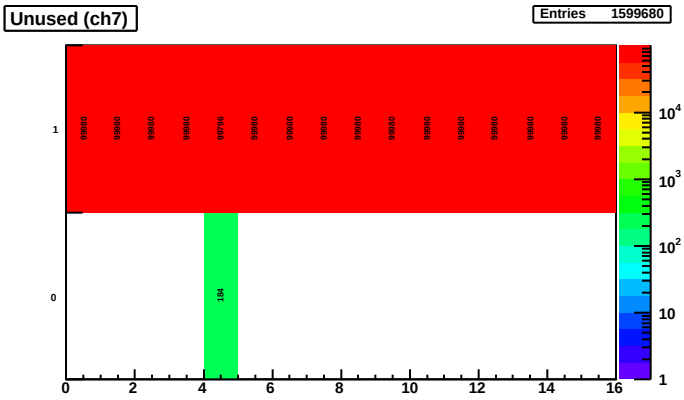

Unused (ch2)
Entries 1599680

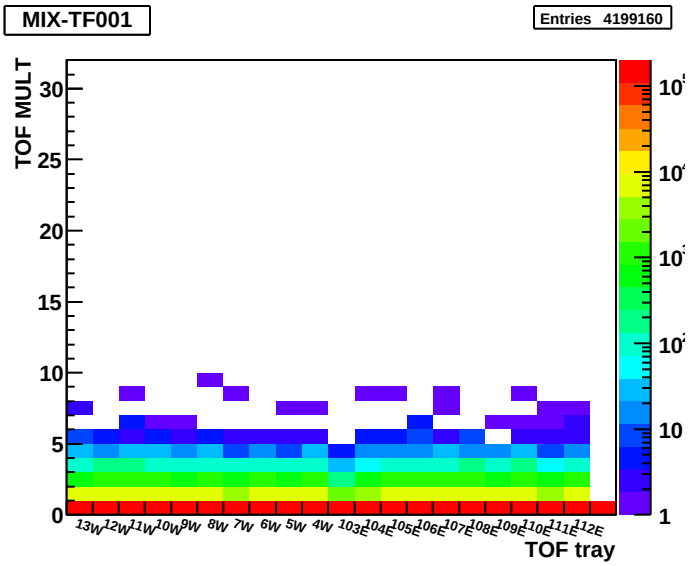

EM201 0-15 (ch3)
Entries 1599680
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

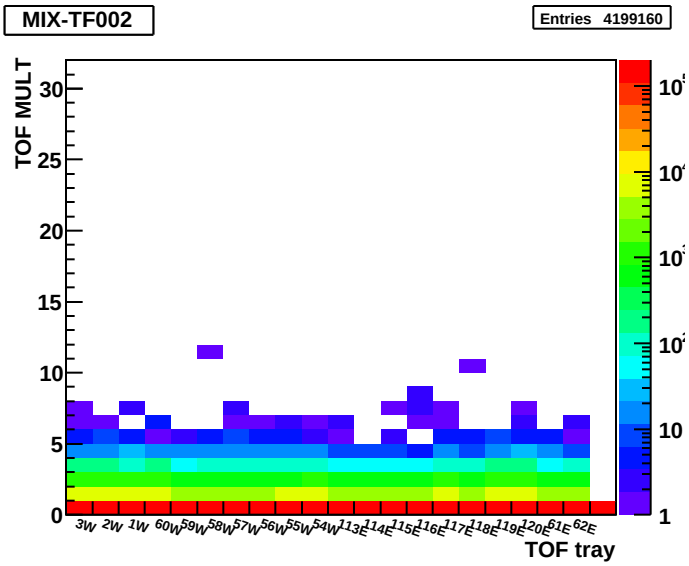

RAT board (ch4)
Entries 1599680
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

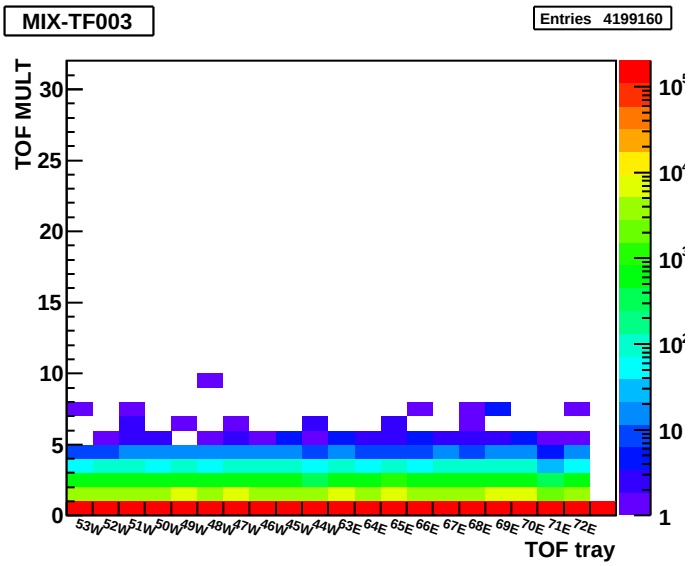

FP201 0-15 (ch5)
Entries 1599680
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

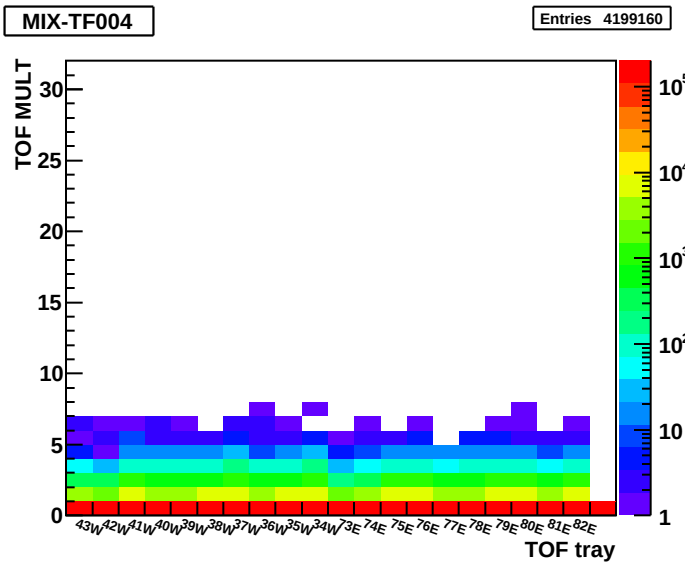

ST201 0-15 (ch6)
Entries 1599680
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

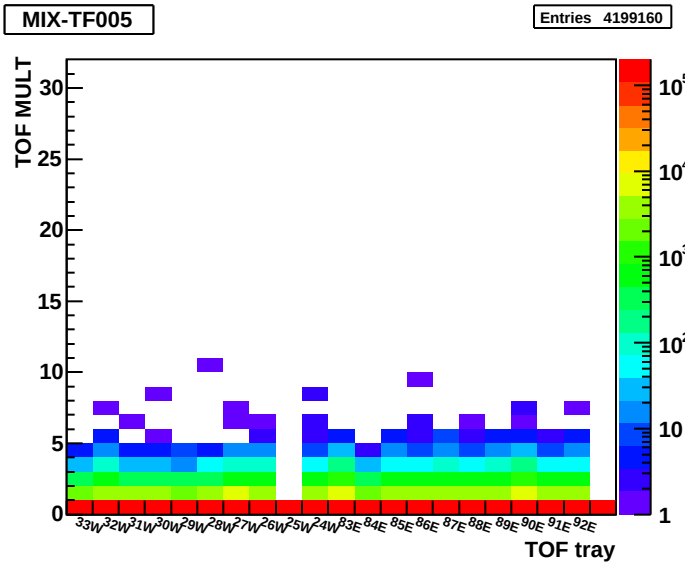

Unused (ch7)
Entries 1599680

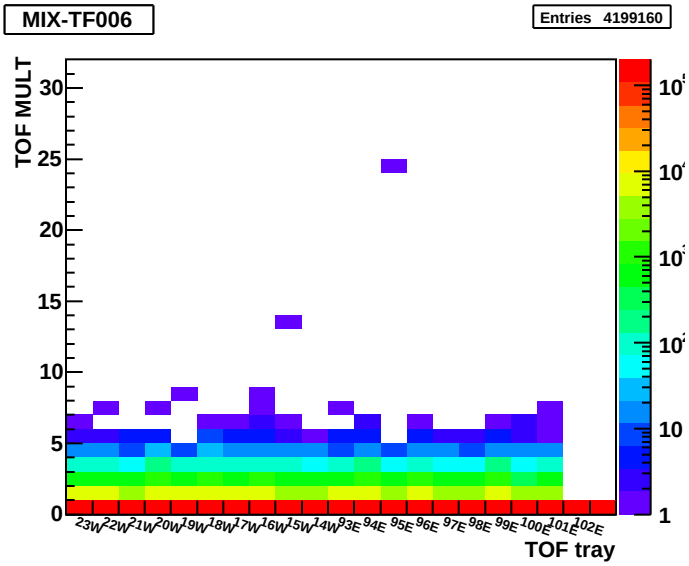

MIX-TF001
Entries 4199160
TOF MULT
TOF tray

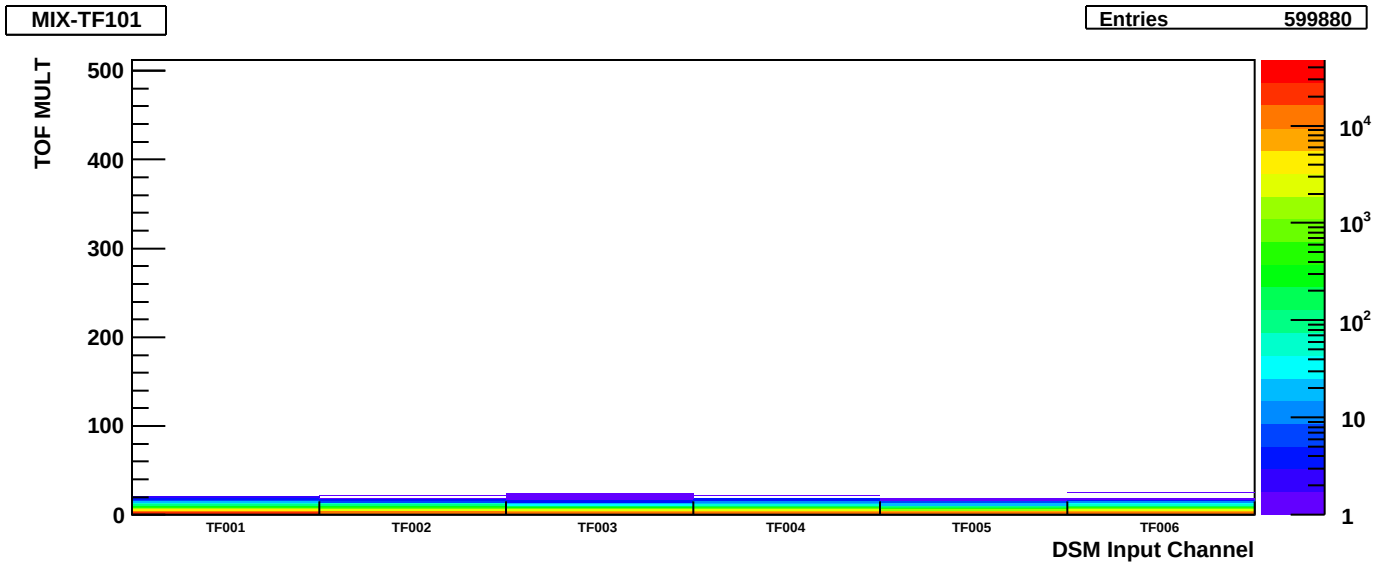

MIX-TF002
Entries 4199160
TOF MULT
TOF tray

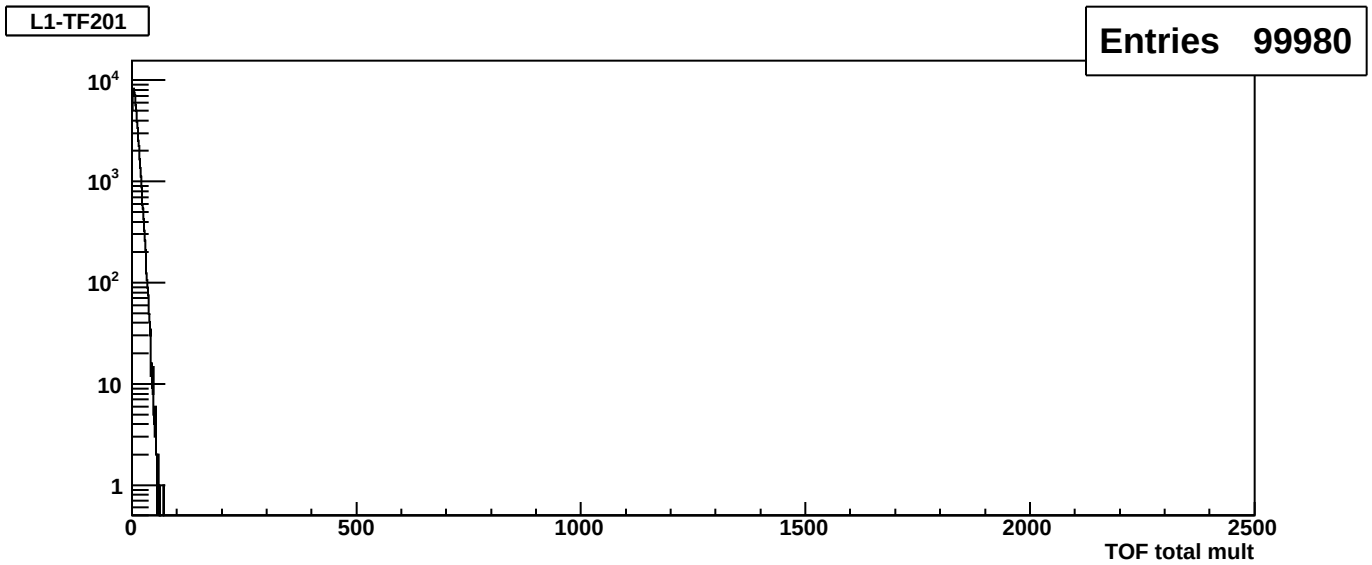

MIX-TF003
Entries 4199160
TOF MULT
TOF tray

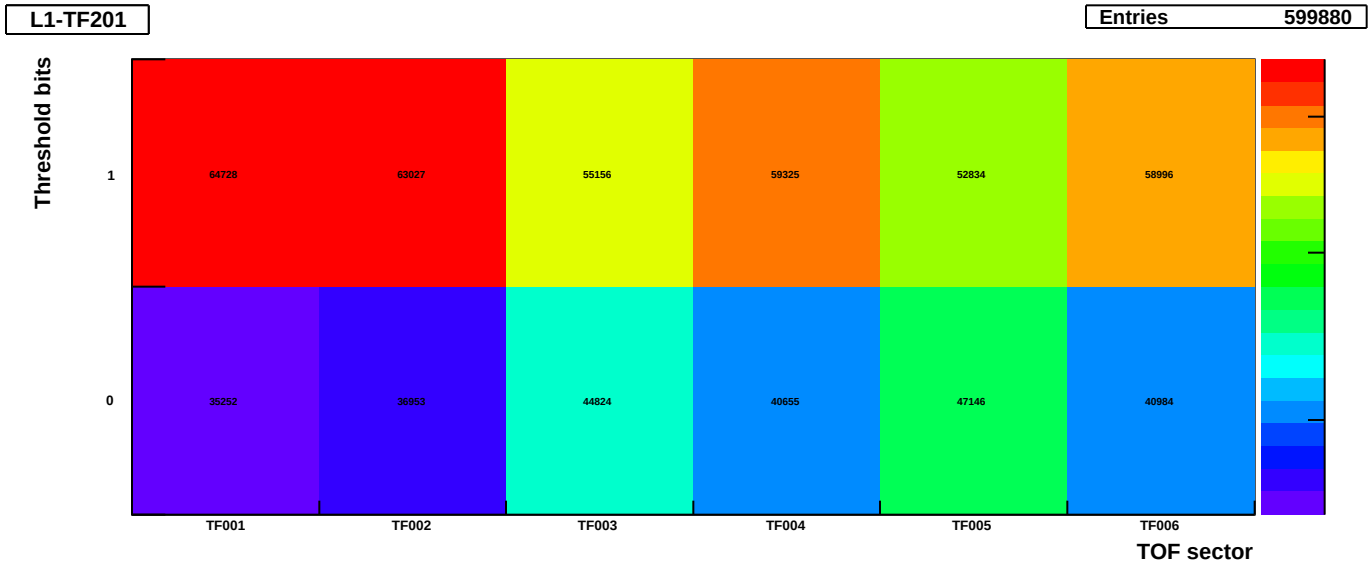

MIX-TF004
Entries 4199160
TOF MULT
TOF tray

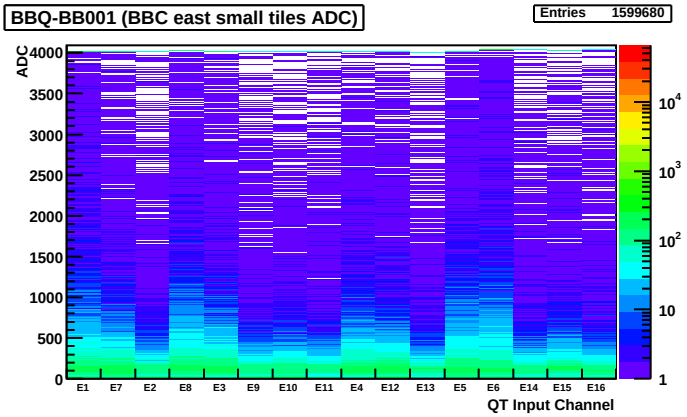

MIX-TF005
Entries 4199160
TOF MULT
TOF tray

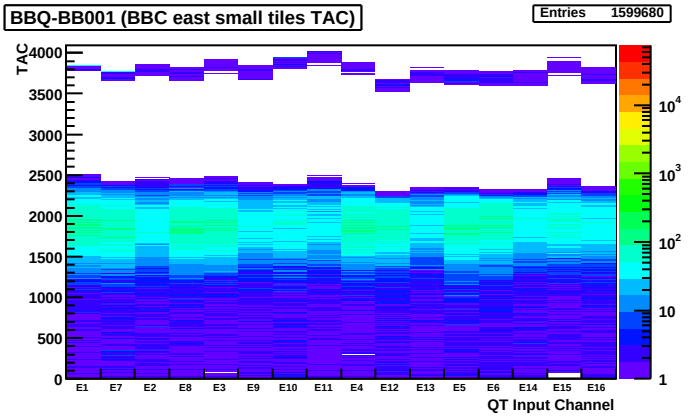

MIX-TF006
Entries 4199160
TOF MULT
TOF tray

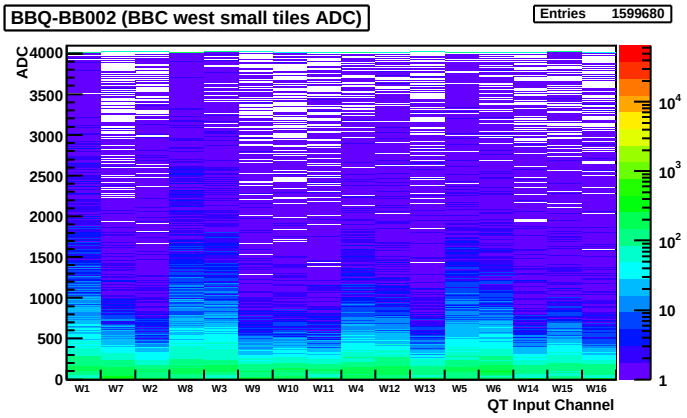

MIX-TF101
Entries 599880
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

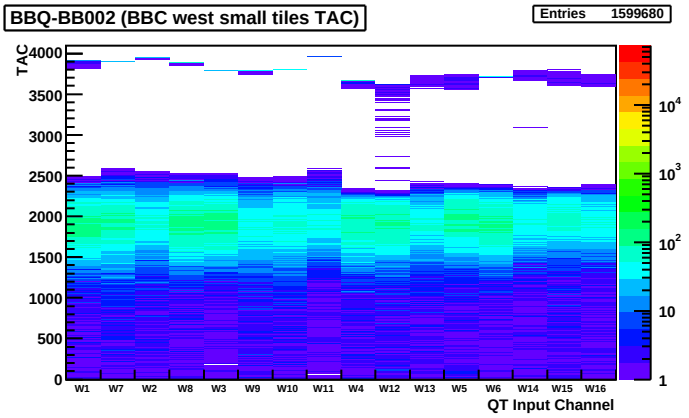

L1-TF201
Entries 99980
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

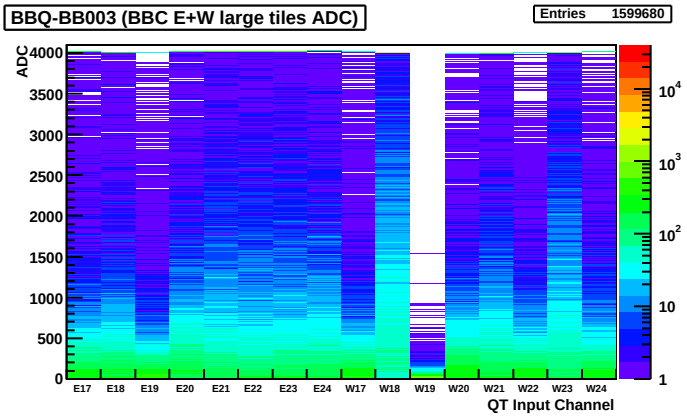

L1-TF201
Entries 599880
Threshold bits
1
0
64728
63027
55156
59325
52834
58996
35252
36953
44824
40655
47146
40984
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

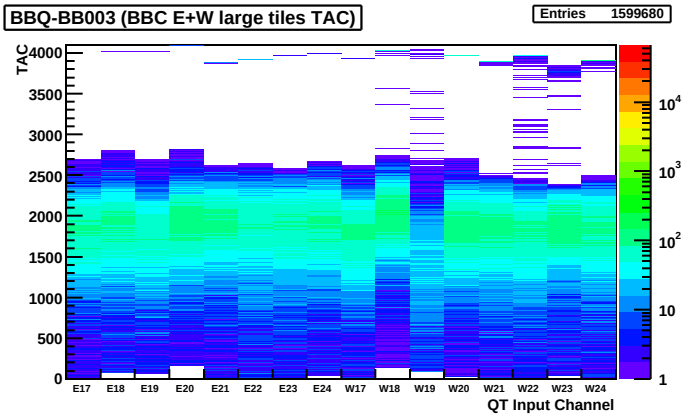

BBQ-BB001 (BBC east small tiles ADC)
Entries 1599680
ADC
QT Input Channel

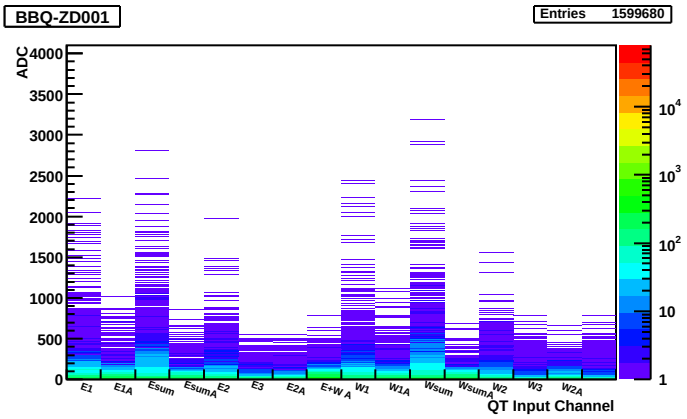

BBQ-BB001 (BBC east small tiles TAC)
Entries 1599680
TAC
QT Input Channel

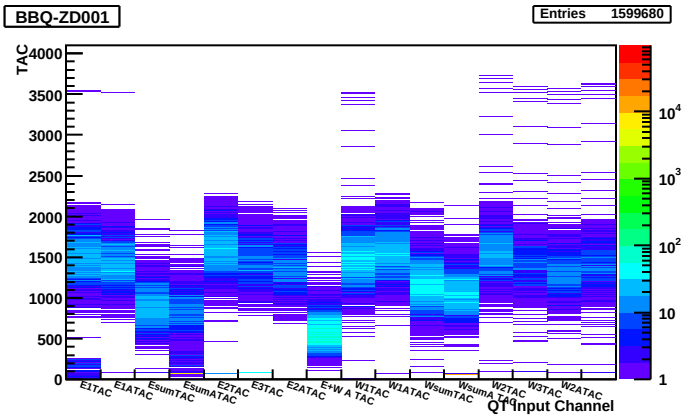

BBQ-BB002 (BBC west small tiles ADC)
Entries 1599680
ADC
QT Input Channel

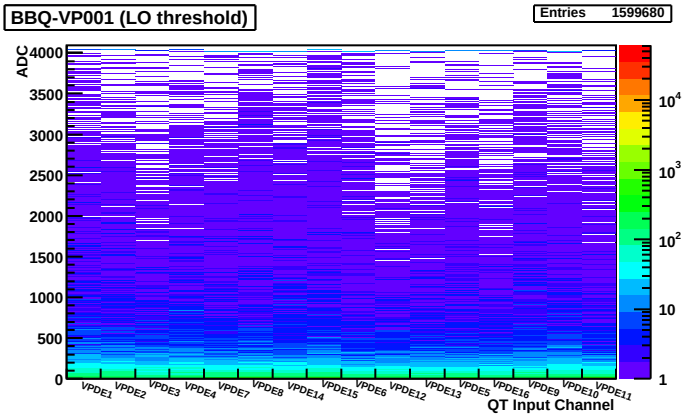

BBQ-BB002 (BBC west small tiles TAC)
Entries 1599680
TAC
QT Input Channel

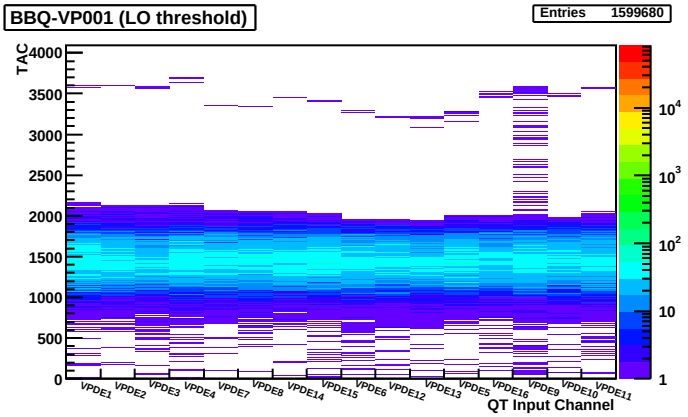

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1599680
ADC
QT Input Channel

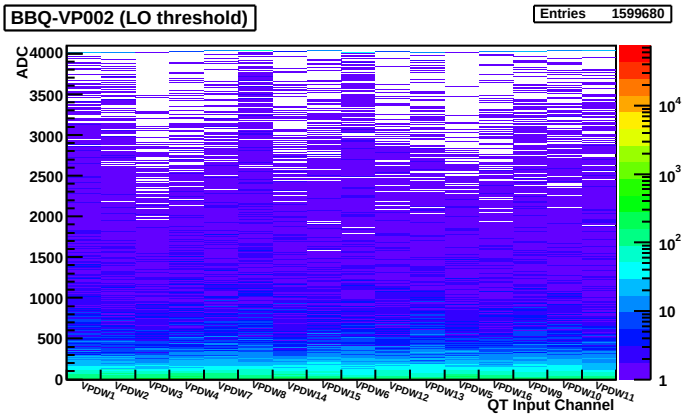

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1599680
TAC
QT Input Channel

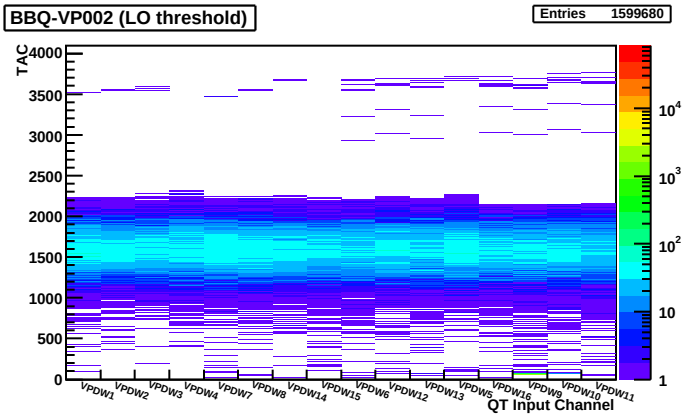

BBQ-ZD001
Entries 1599680
ADC
QT Input Channel

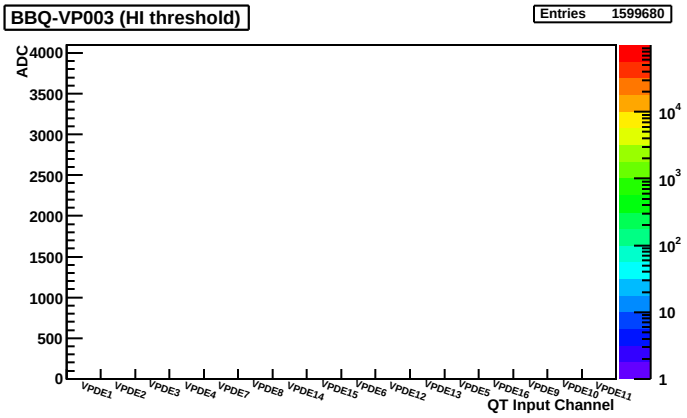

BBQ-ZD001
Entries 1599680
TAC
QT Input Channel

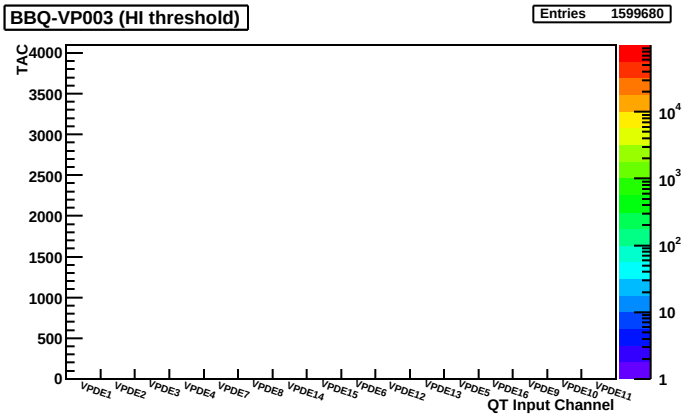

BBQ-VP001 (LO threshold)
Entries 1599680
ADC
QT Input Channel

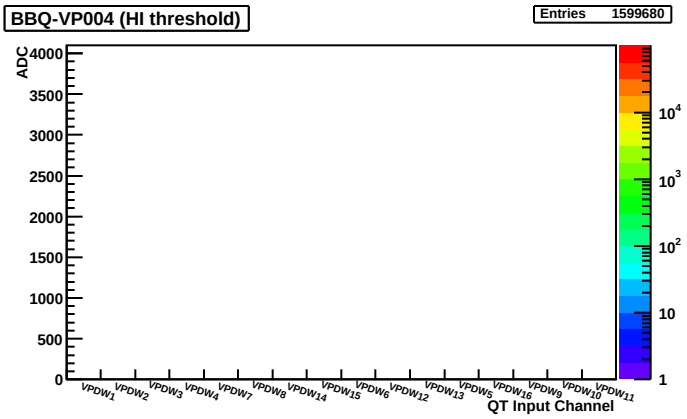

BBQ-VP001 (LO threshold)
Entries 1599680
TAC
QT Input Channel

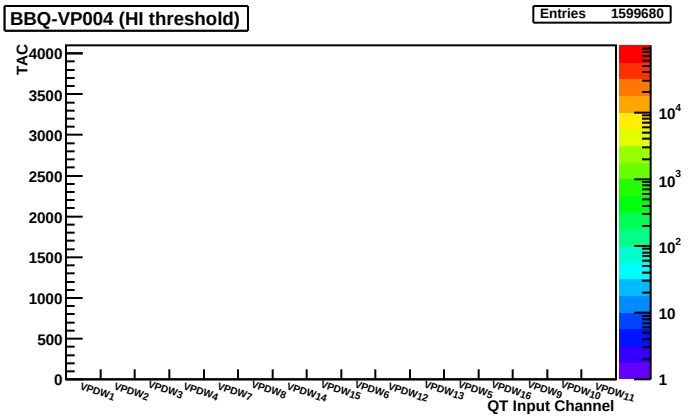

BBQ-VP002 (LO threshold)
Entries 1599680
ADC
QT Input Channel

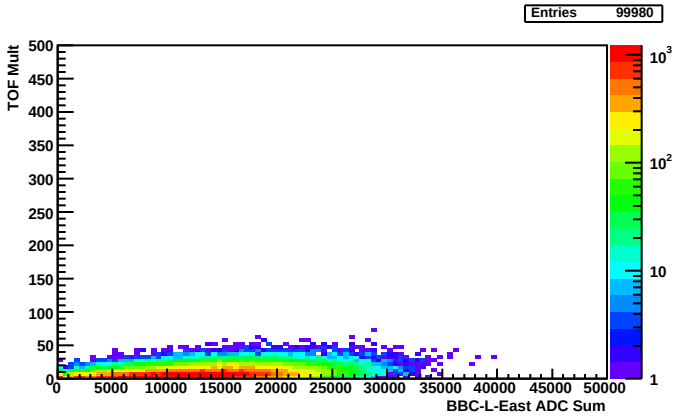

BBQ-VP002 (LO threshold)
Entries 1599680
TAC
QT Input Channel

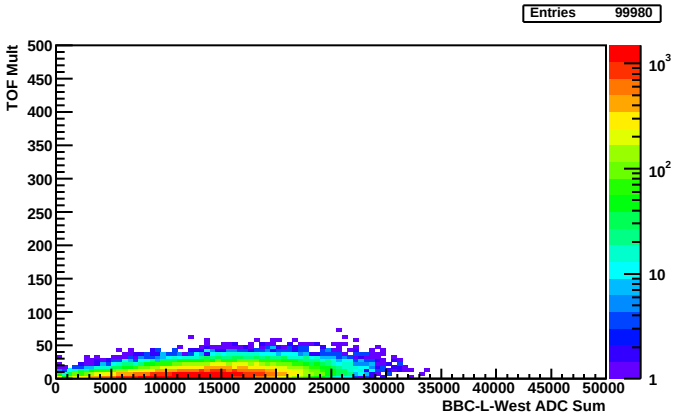

BBQ-VP003 (HI threshold)
Entries 1599680
ADC
QT Input Channel

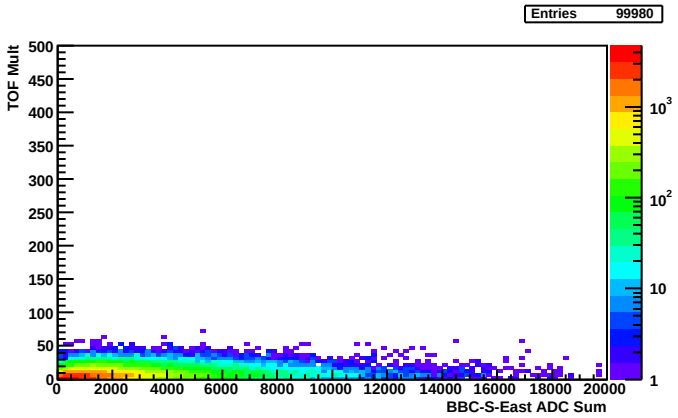

BBQ-VP003 (HI threshold)
Entries 1599680
TAC
QT Input Channel

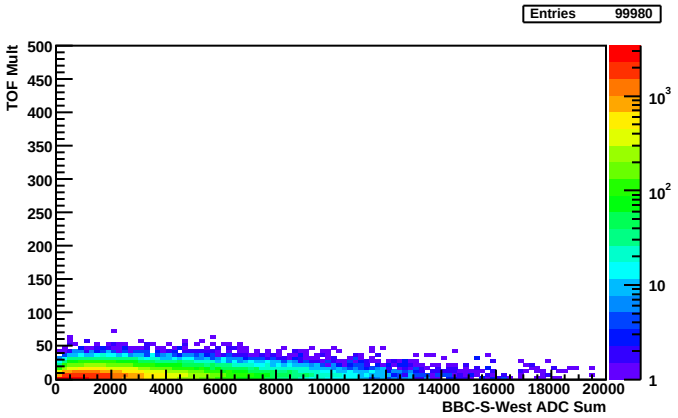

BBQ-VP004 (HI threshold)
Entries 1599680
ADC
QT Input Channel

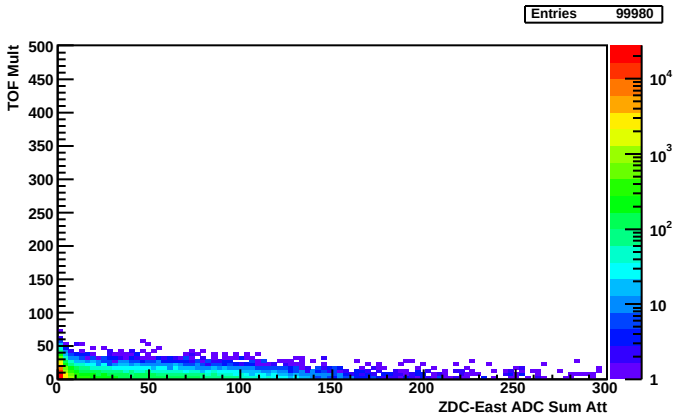

BBQ-VP004 (HI threshold)
Entries 1599680
TAC
QT Input Channel

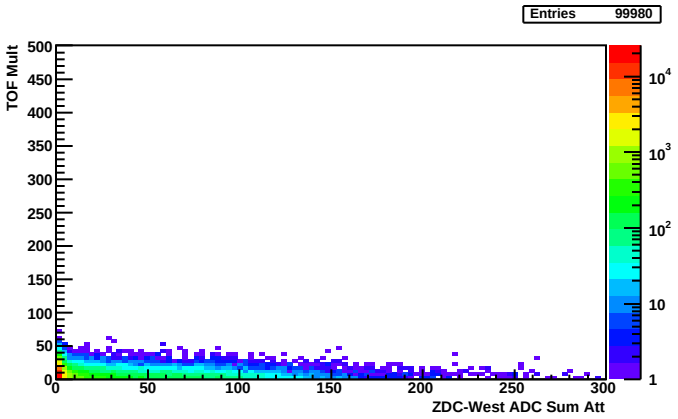

Entries 99980
TOF Mult
BBC-L-East ADC Sum

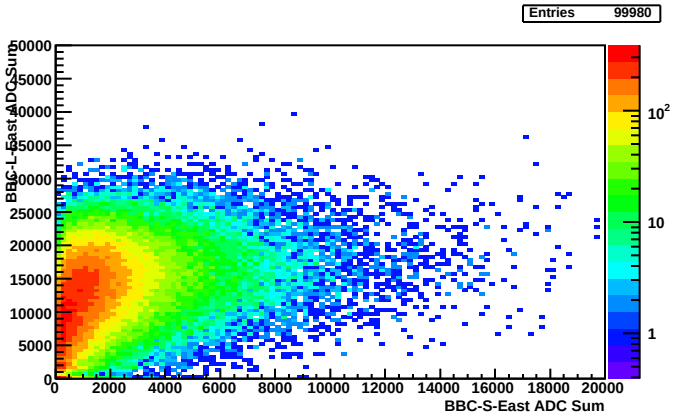

Entries 99980
TOF Mult
BBC-L-West ADC Sum

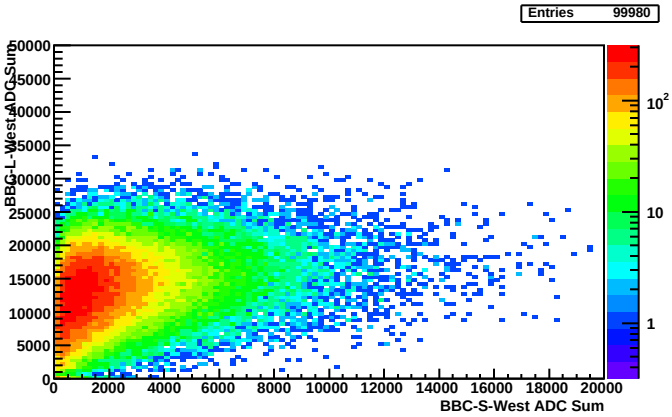

Entries 99980
TOF Mult
BBC-S-East ADC Sum

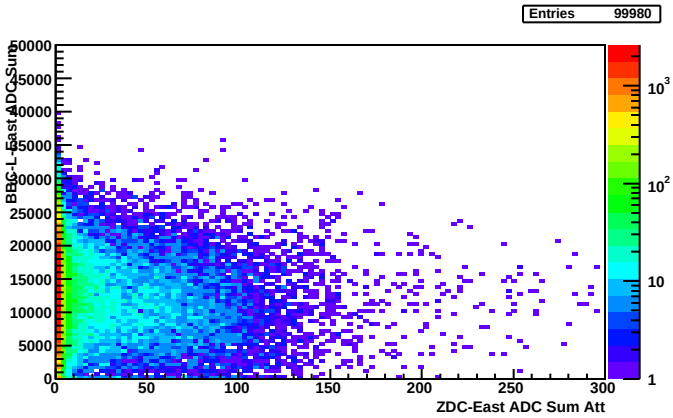

Entries 99980
TOF Mult
BBC-S-West ADC Sum

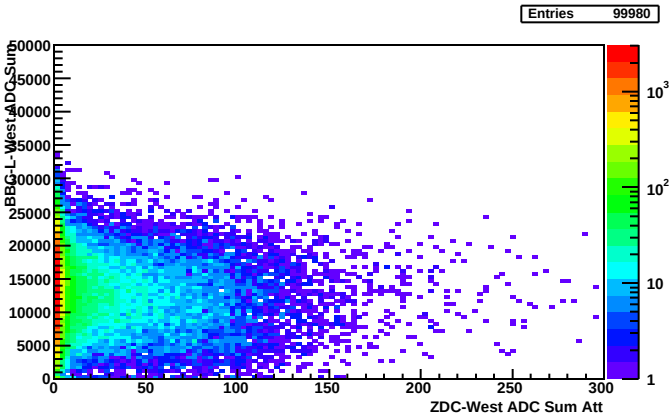

Entries 99980
TOF Mult
ZDC-East ADC Sum Att

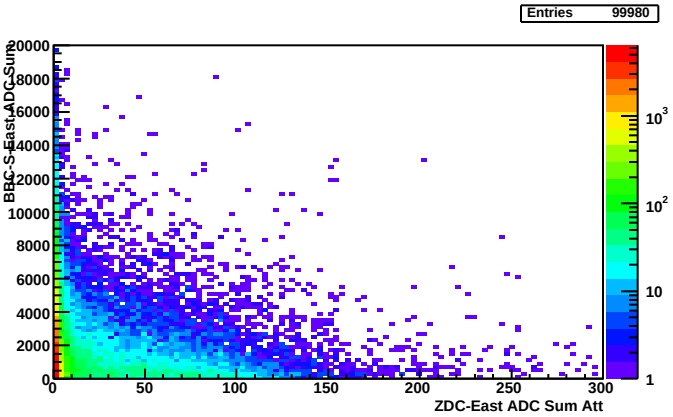

Entries 99980
TOF Mult
ZDC-West ADC Sum Att

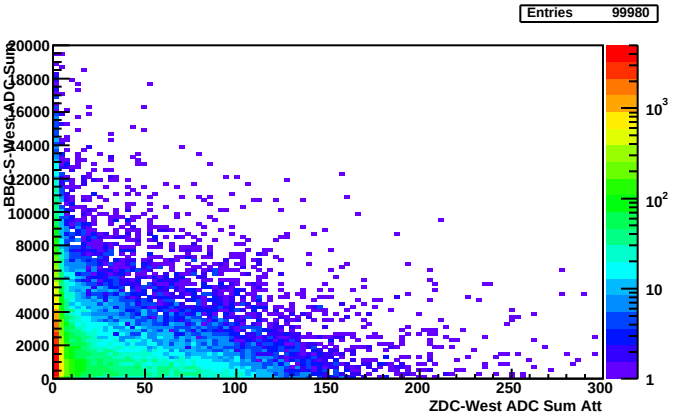

Entries 99980
BBC-L-East ADC Sum
BBC-S-East ADC Sum

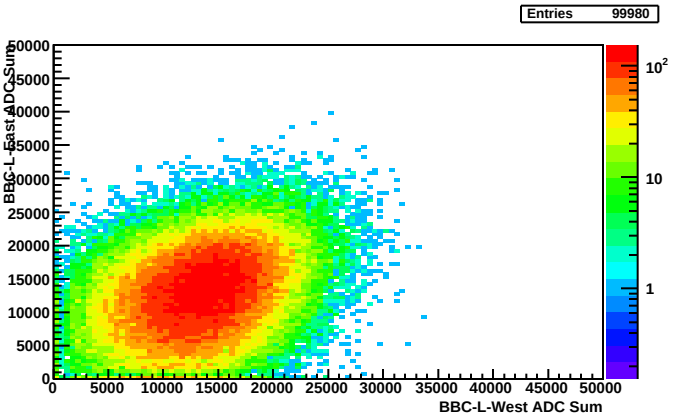

Entries 99980
BBC-L-West ADC Sum
BBC-S-West ADC Sum

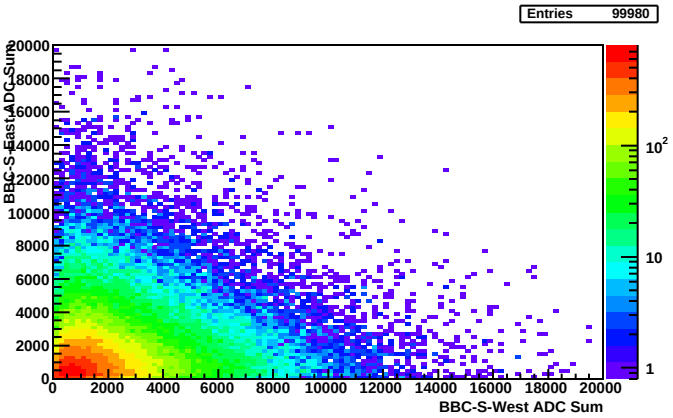

Entries 99980
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

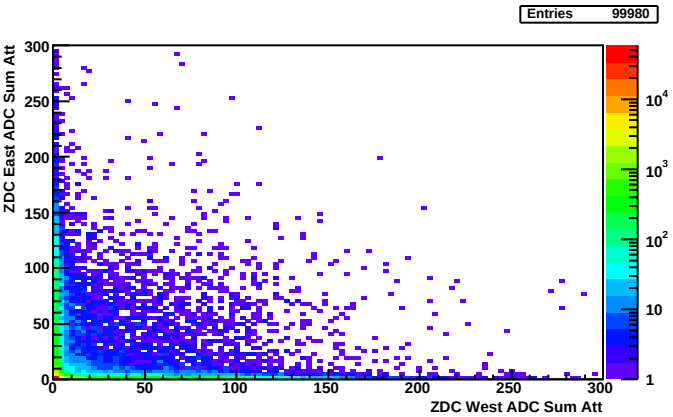

Entries 99980
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

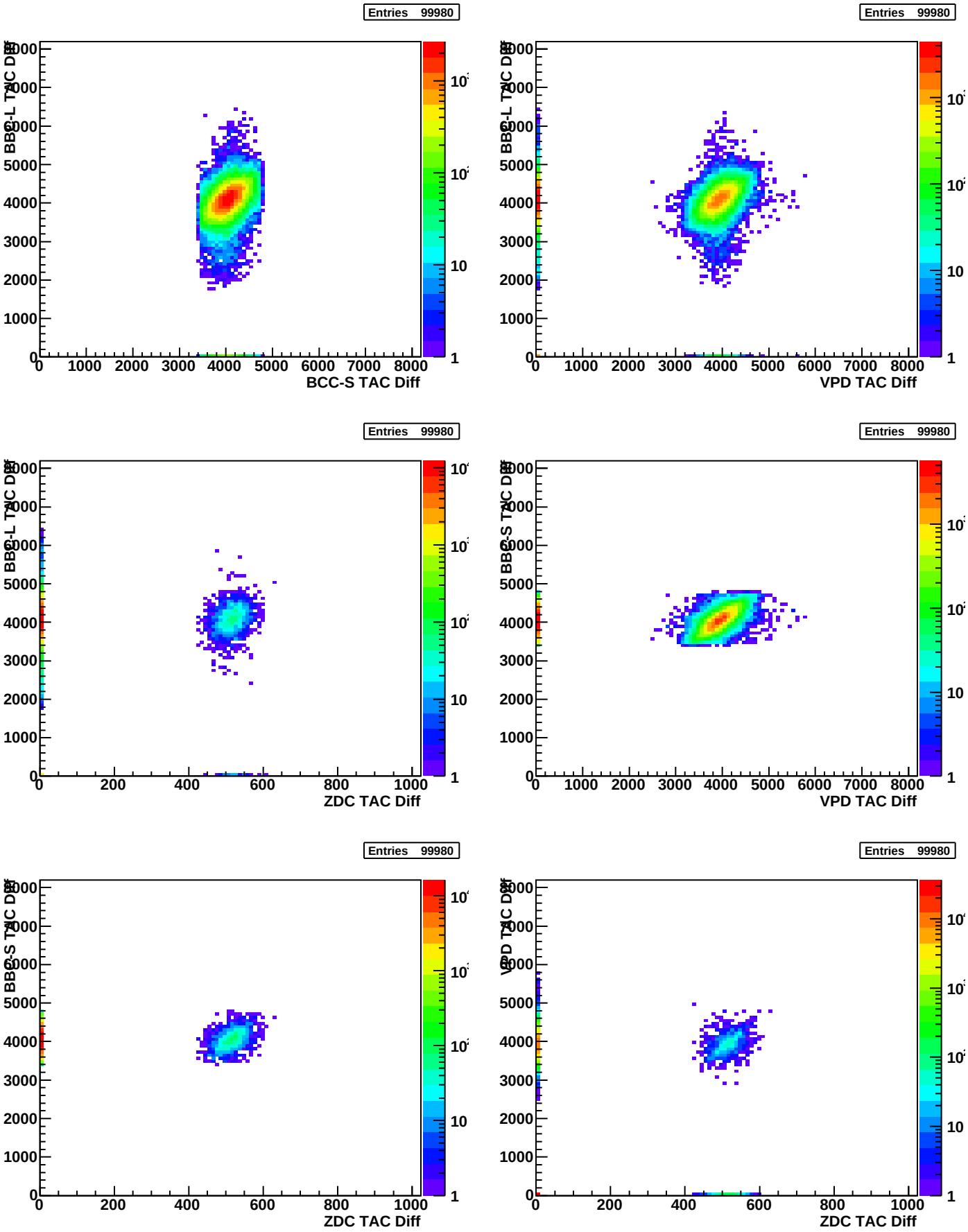

Entries 99980
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

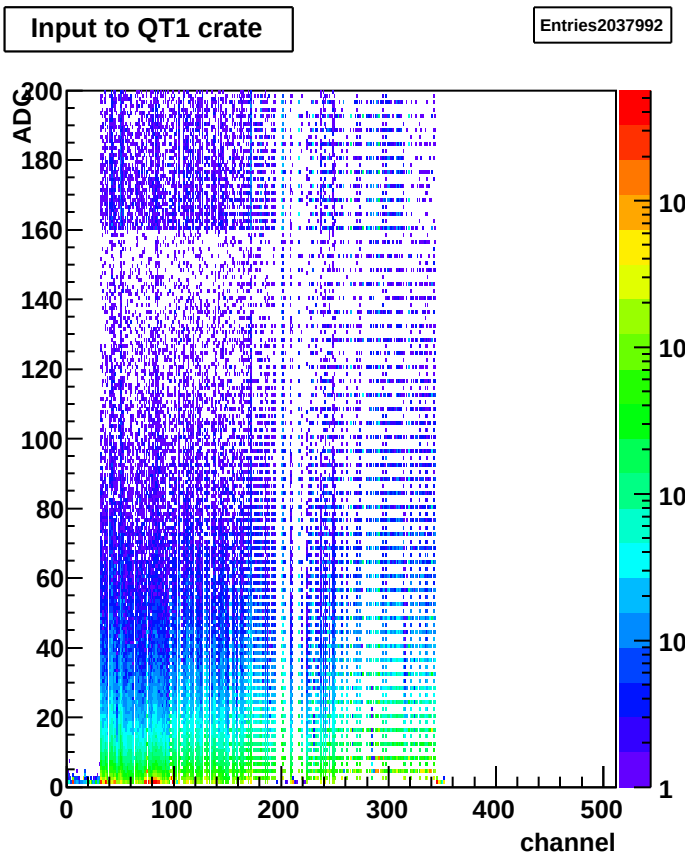

Entries 99980
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

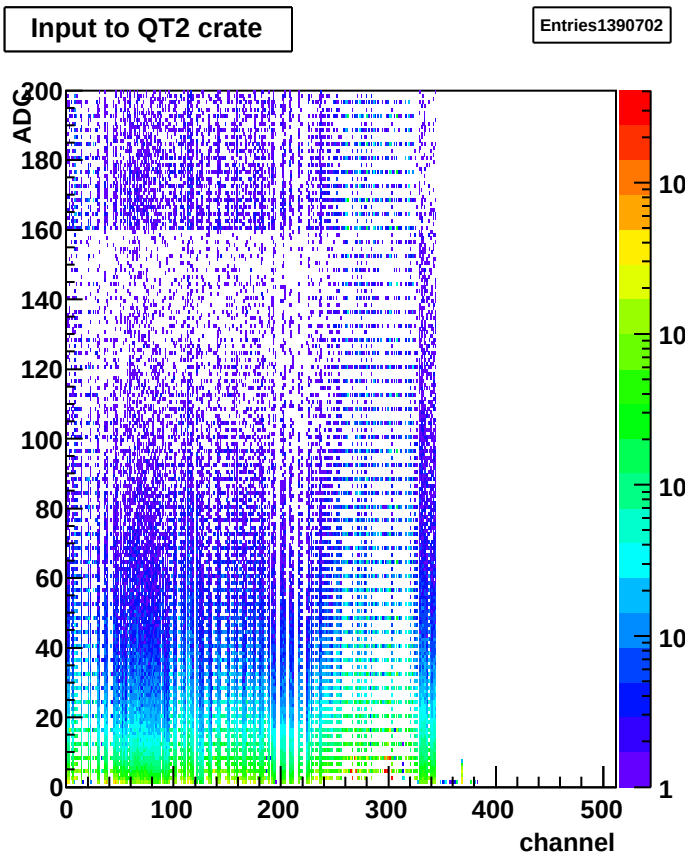

Entries 99980
BBC-L-East ADC Sum
BBC-L-West ADC Sum

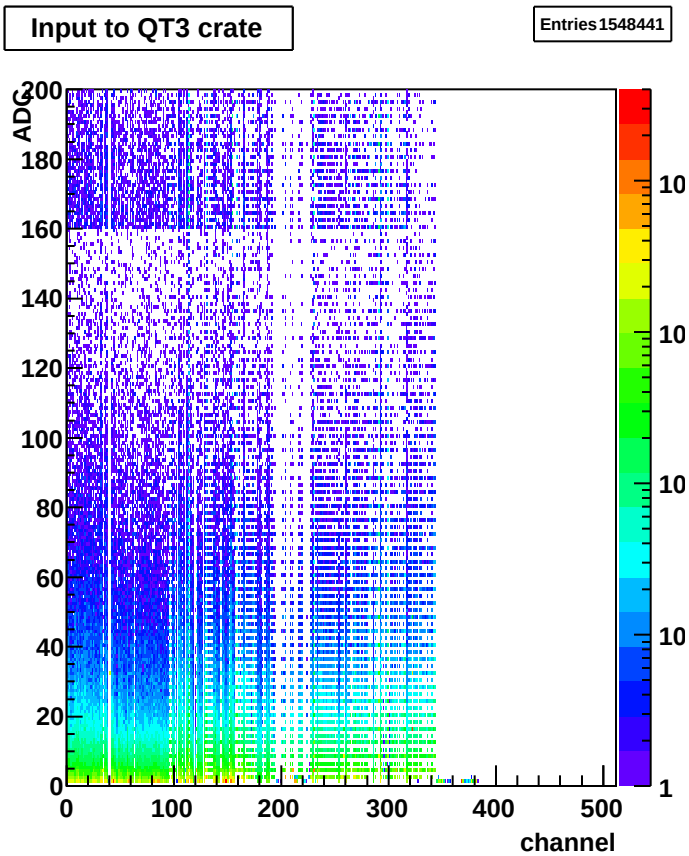

Entries 99980
BBC-S-East ADC Sum
BBC-S-West ADC Sum

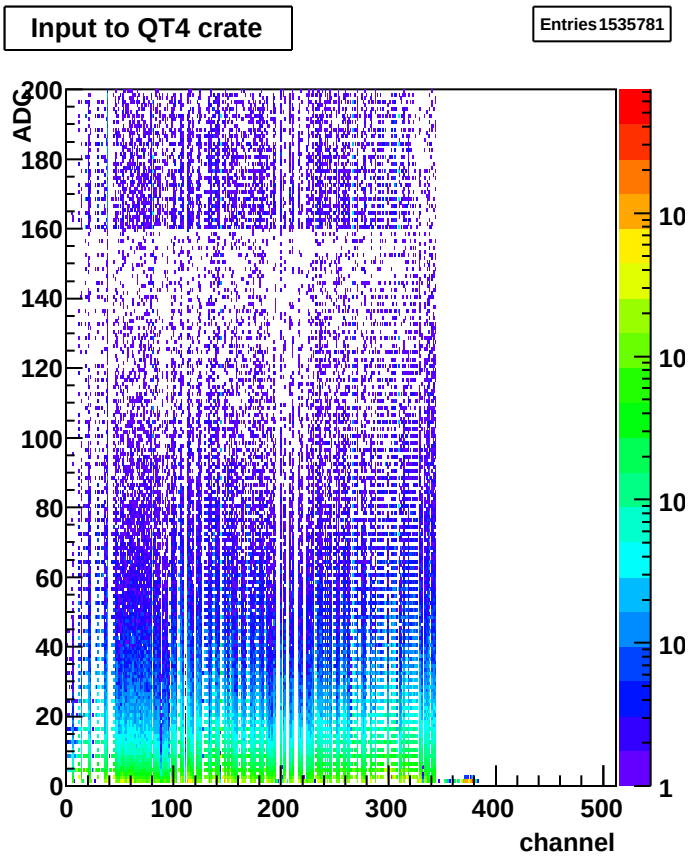

Entries 99980
ZDC East ADC Sum Att
ZDC West ADC Sum Att

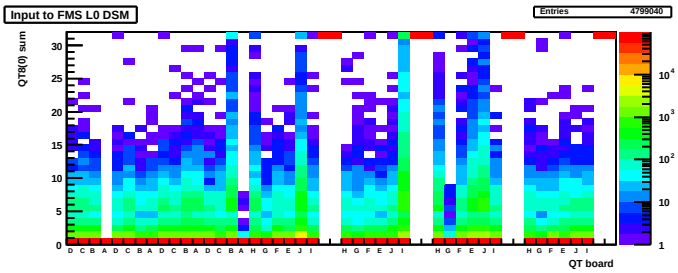

Entries 99980
BBC-L TAC Diff
BCC-S TAC Diff
Entries 99980
BBC-L TAC Diff
VPD TAC Diff
Entries 99980
BBC-L TAC Diff
ZDC TAC Diff
Entries 99980
BBC-S TAC Diff
VPD TAC Diff
Entries 99980
BBC-S TAC Diff
ZDC TAC Diff
Entries 99980
VPD TAC Diff
ZDC TAC Diff

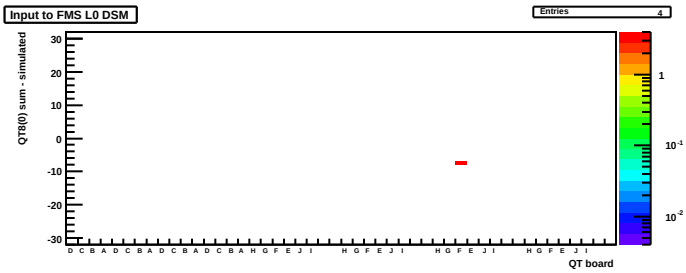

Input to QT1 crate
Entries2037992
ADC
channel

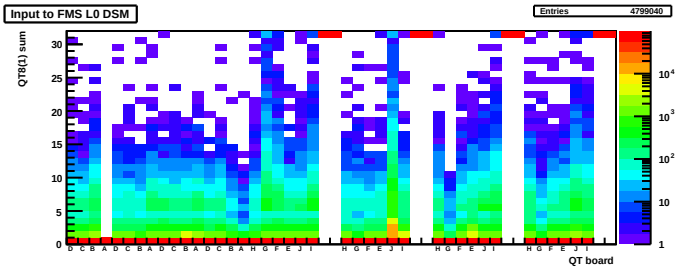

Input to QT2 crate
Entries1390702
ADC
channel

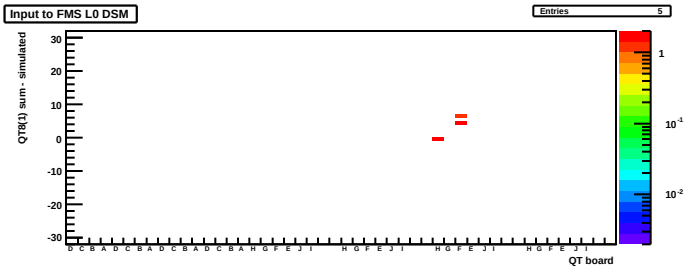

Input to QT3 crate
Entries1548441
ADC
channel

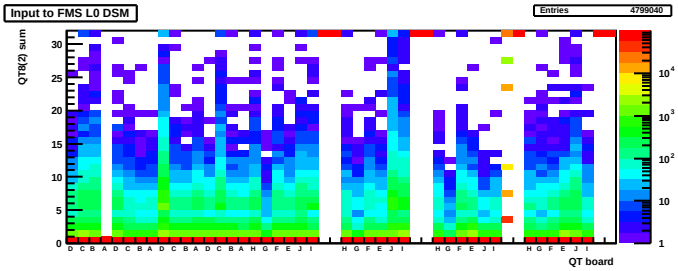

Input to QT4 crate
Entries1535781
ADC
channel

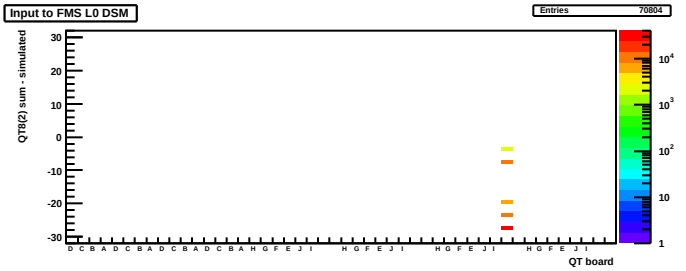

Input to FMS L0 DSM
Entries 4799040
QT8(0) sum
QT board

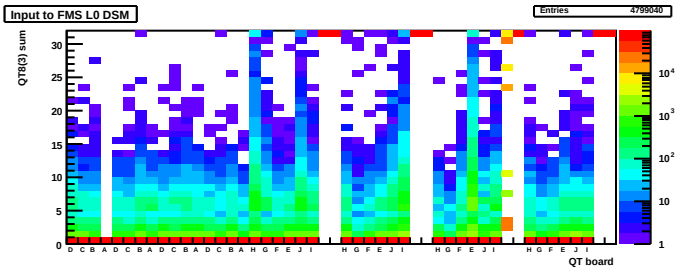

Input to FMS L0 DSM
Entries 4
QT8(0) sum - simulated
QT board

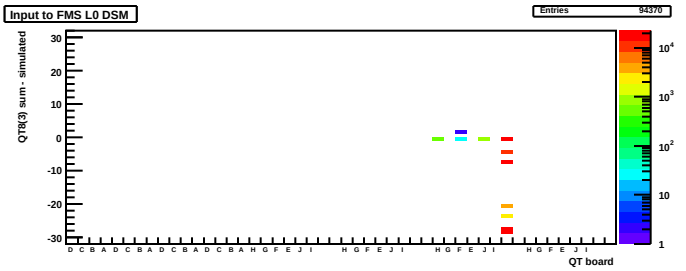

Input to FMS L0 DSM
Entries 4799040
QT8(1) sum
QT board

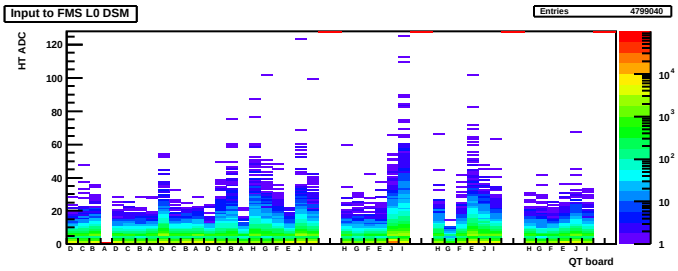

Input to FMS L0 DSM
Entries 5
QT8(1) sum - simulated
QT board

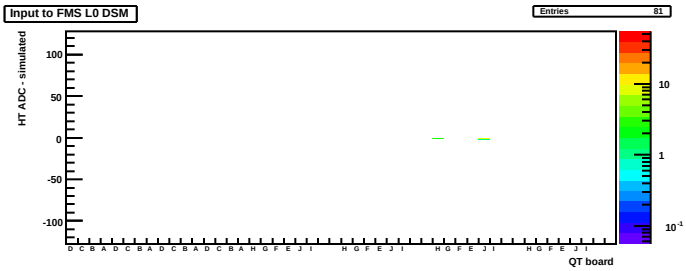

Input to FMS L0 DSM
Entries 4799040
QT8(2) sum
QT board

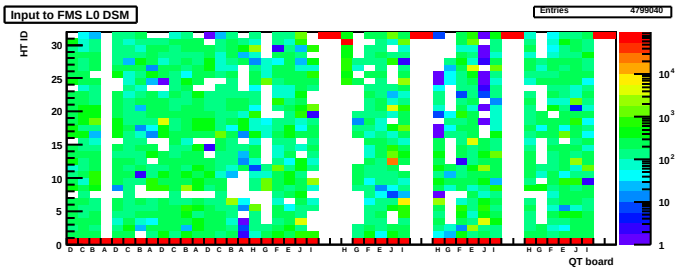

Input to FMS L0 DSM
Entries 70804
QT8(2) sum - simulated
QT board

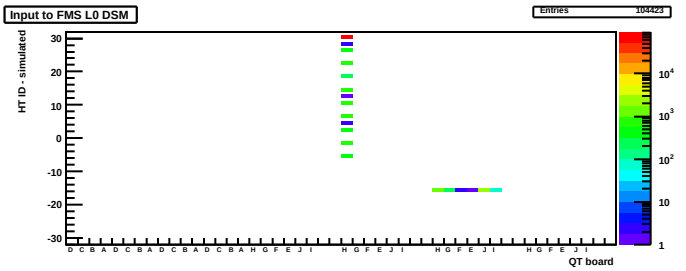

Input to FMS L0 DSM
Entries 4799040
QT8(3) sum
QT board

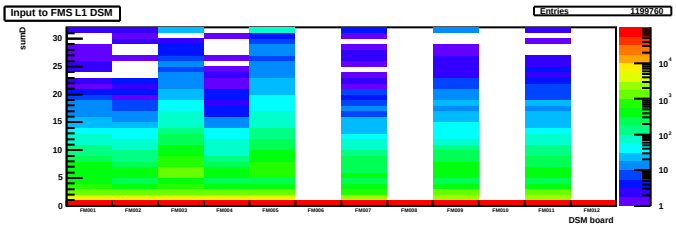

Input to FMS L0 DSM
Entries 94370
QT8(3) sum - simulated
QT board

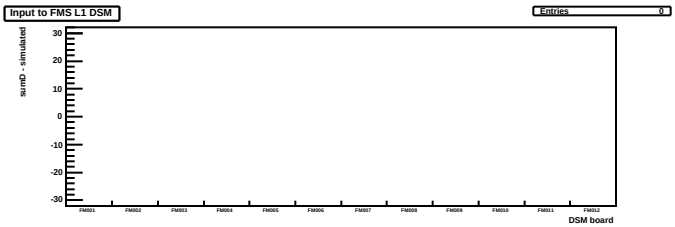

Input to FMS L0 DSM
Entries 4799040
HT ADC
QT board

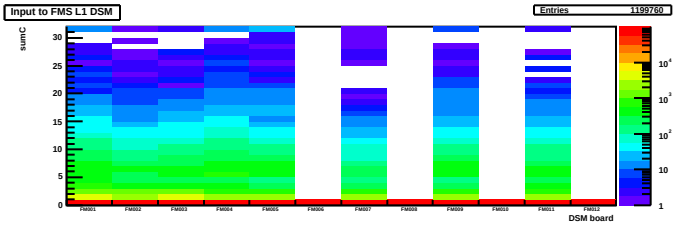

Input to FMS L0 DSM
Entries 81
HT ADC - simulated
QT board

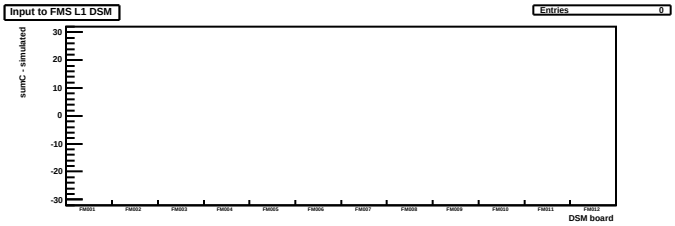

Input to FMS L0 DSM
Entries 4799040
HT ID
QT board

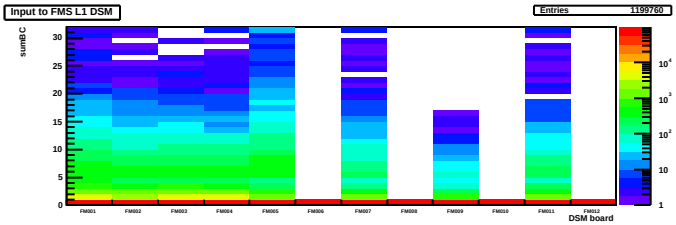

Input to FMS L0 DSM
Entries 104423
HT ID - simulated
QT board

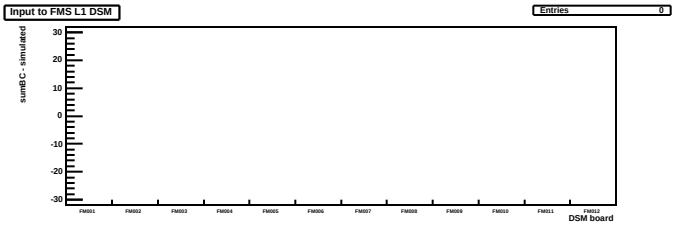

Input to FMS L1 DSM
Entries 1199760
sumD
DSM board

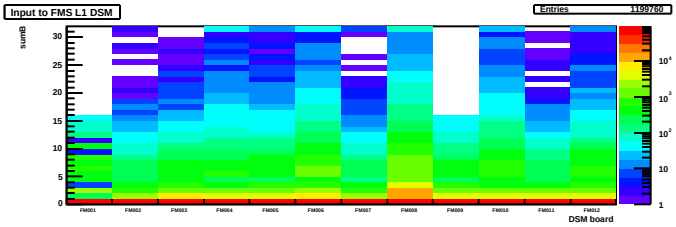

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

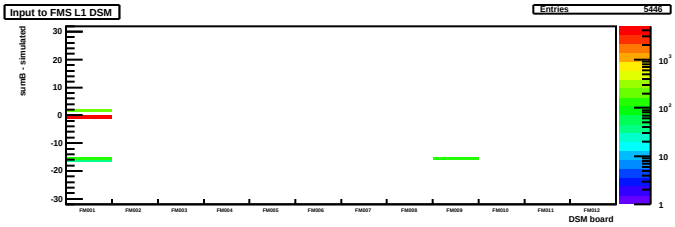

Input to FMS L1 DSM
Entries 1199760
sumC
DSM board

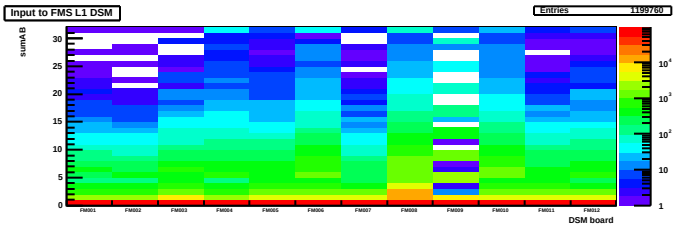

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

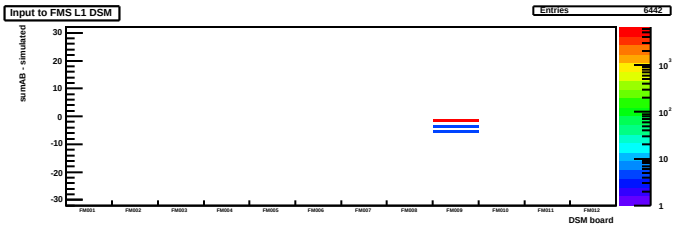

Input to FMS L1 DSM
Entries 1199760
sumBC
DSM board

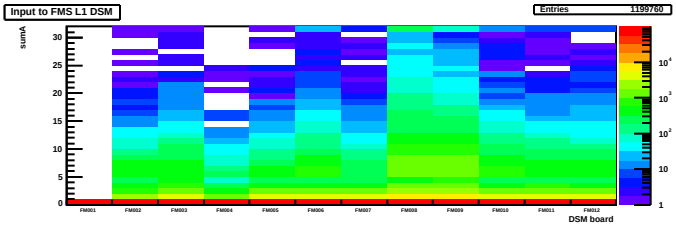

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

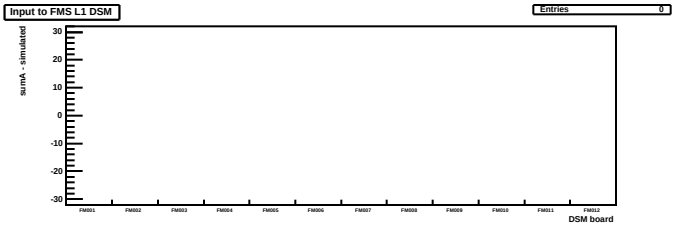

Input to FMS L1 DSM
Entries 1199760
sumB
DSM board

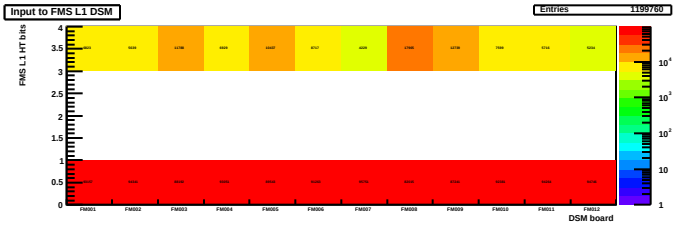

Input to FMS L1 DSM
Entries 5446
sumB - simulated
DSM board

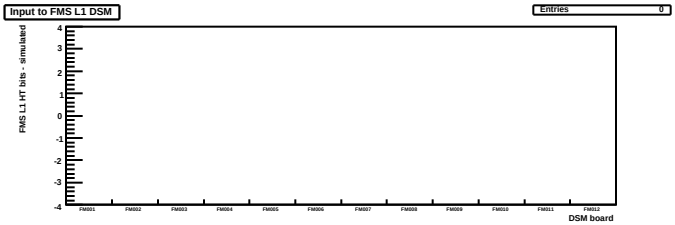

Input to FMS L1 DSM
Entries 1199760
sumAB
DSM board

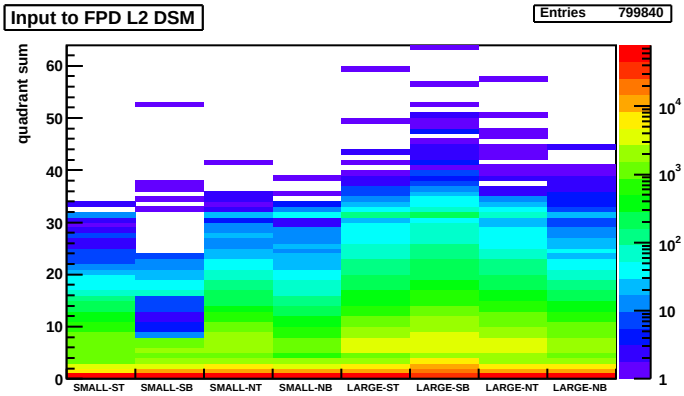

Input to FMS L1 DSM
Entries 6442
sumAB - simulated
DSM board

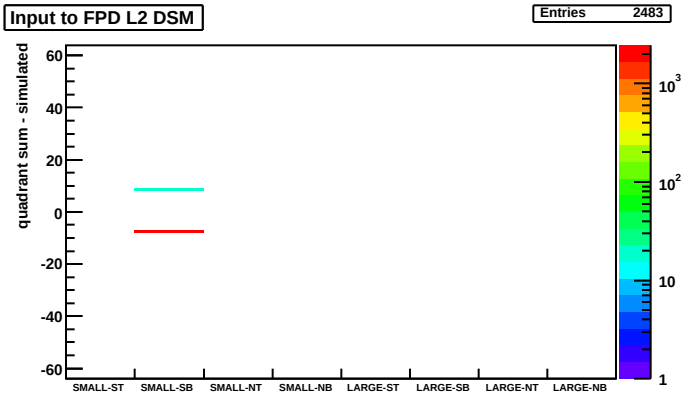

Input to FMS L1 DSM
Entries 1199760
sumA
DSM board

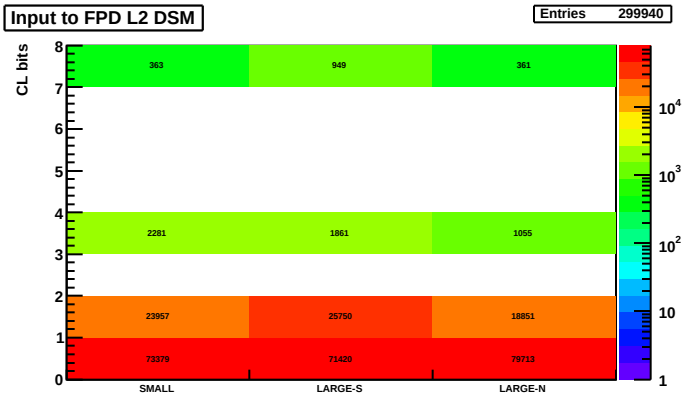

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

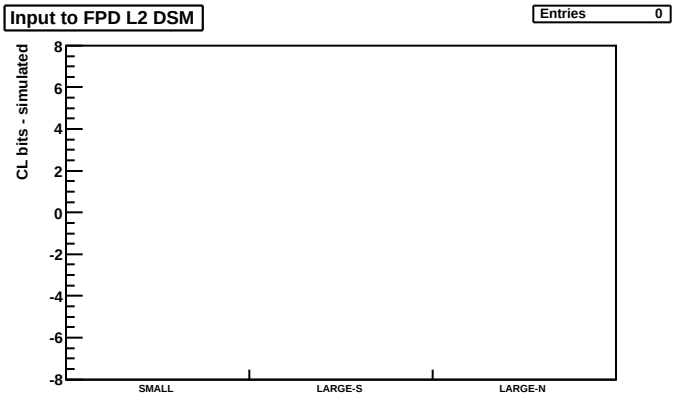

Input to FMS L1 DSM
Entries 1199760
FMS L1 HT bits
DSM board

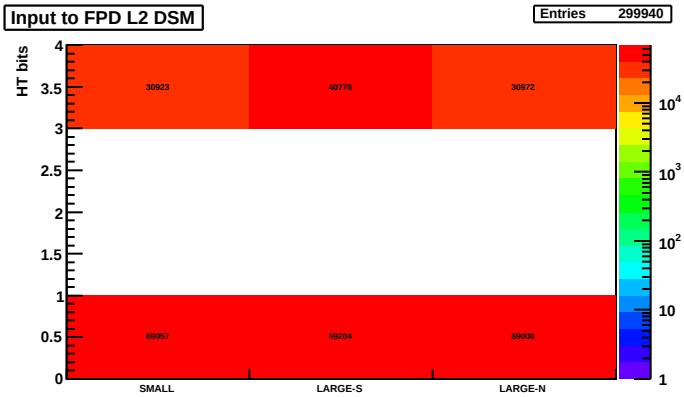

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

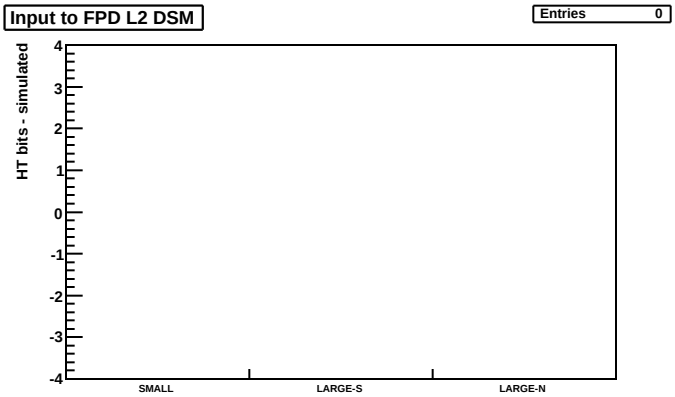

Input to FPD L2 DSM
Entries 799840
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

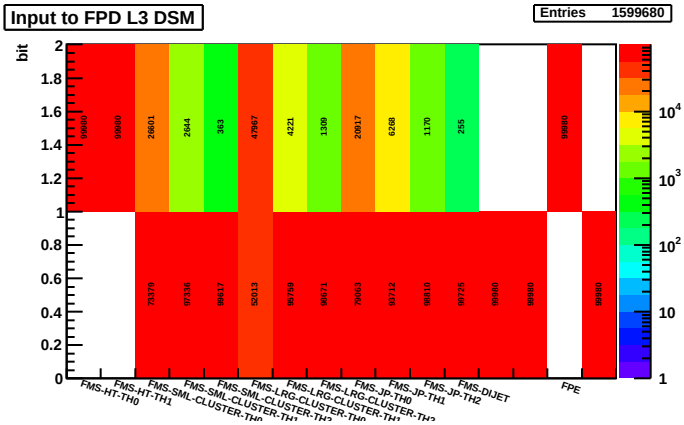

Input to FPD L2 DSM
Entries 2483
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

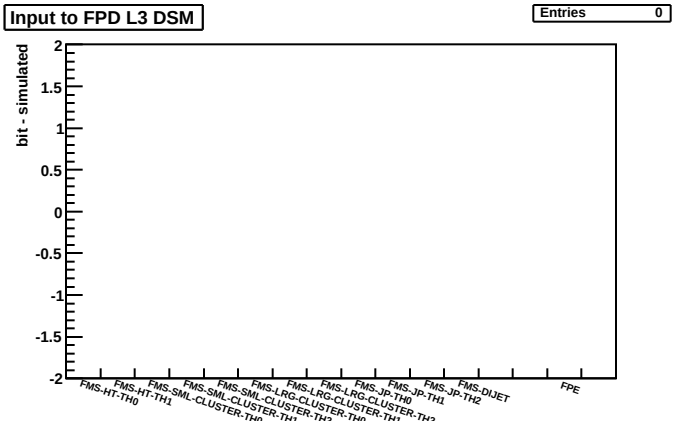

Input to FPD L2 DSM
Entries 299940
CL bits
363
949
361
2281
1861
1055
23957
25750
18851
73379
71420
79713
SMALL
LARGE-S
LARGE-N

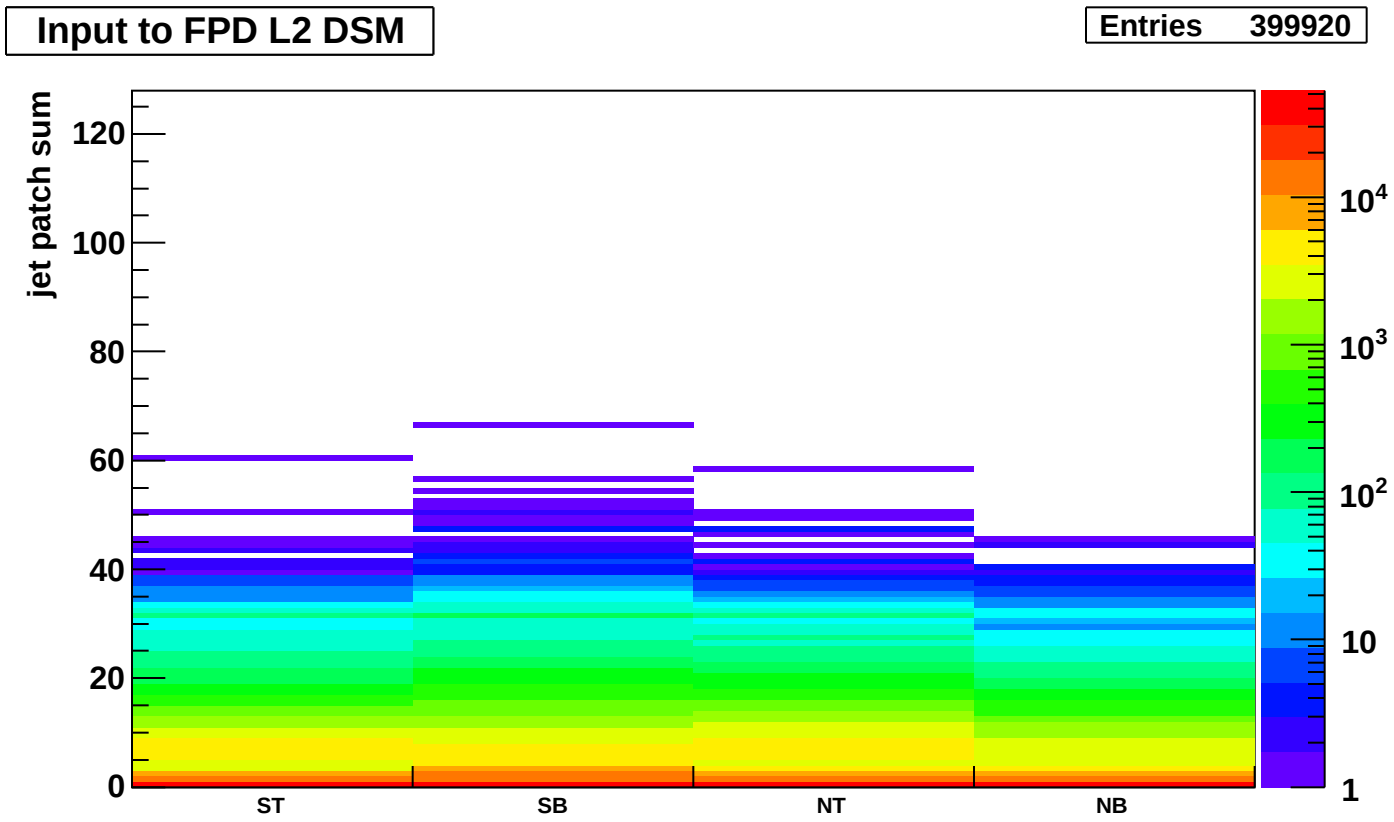

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

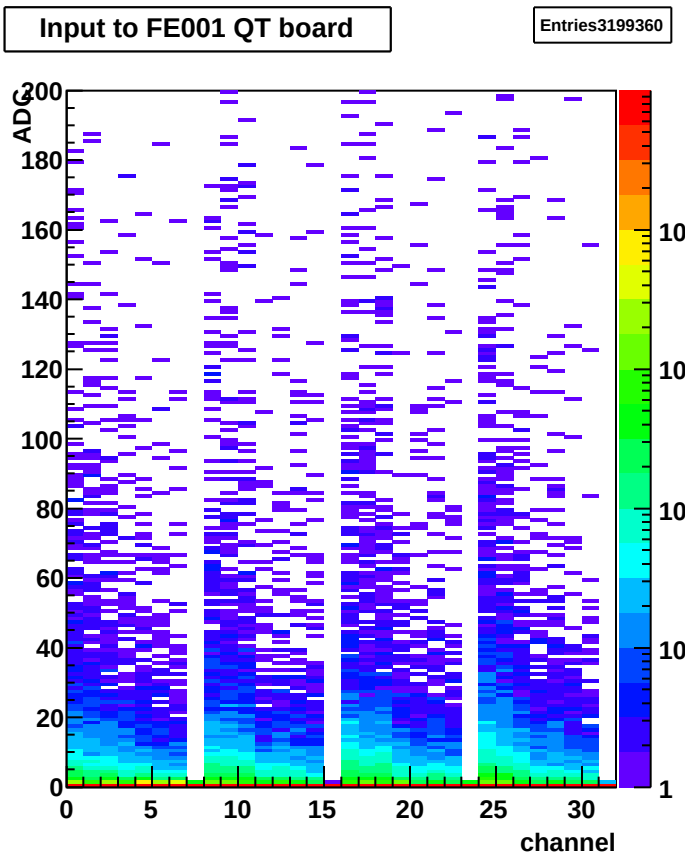

Input to FPD L2 DSM
Entries 299940
HT bits
30923
40776
30972
69057
59204
69008
SMALL
LARGE-S
LARGE-N

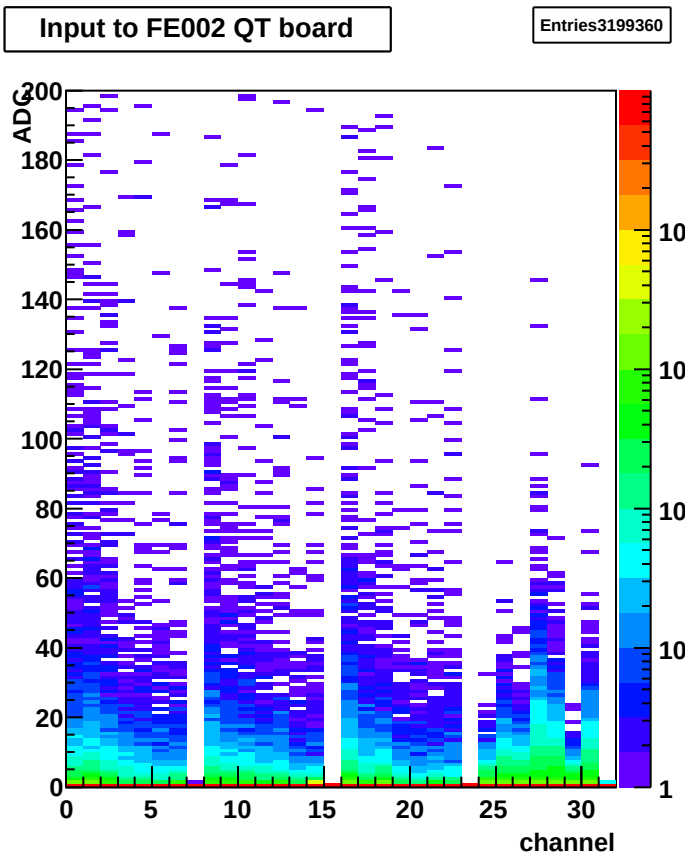

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

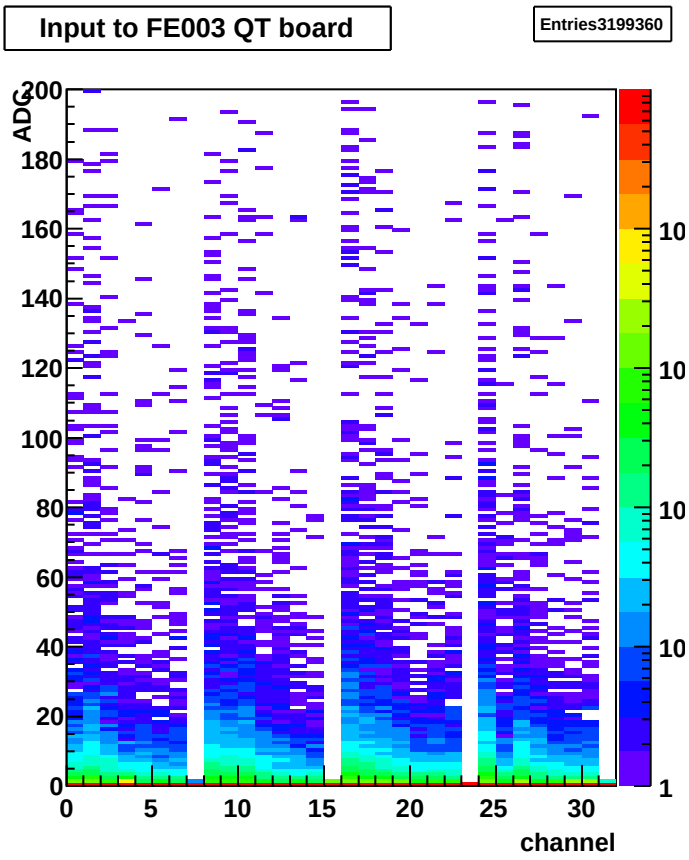

Input to FPD L3 DSM
Entries 1599680
bit
99980
99930
26601
2844
363
47967
4221
1309
20917
6268
1170
255
99930
73379
97336
99617
52013
95759
98671
70063
92712
98810
99725
99930
99930
99930
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

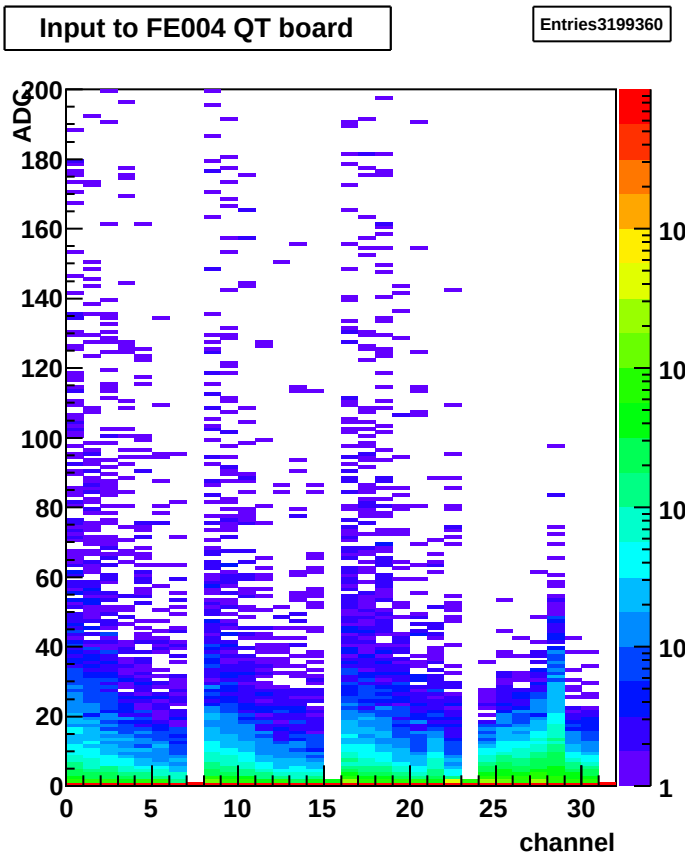

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

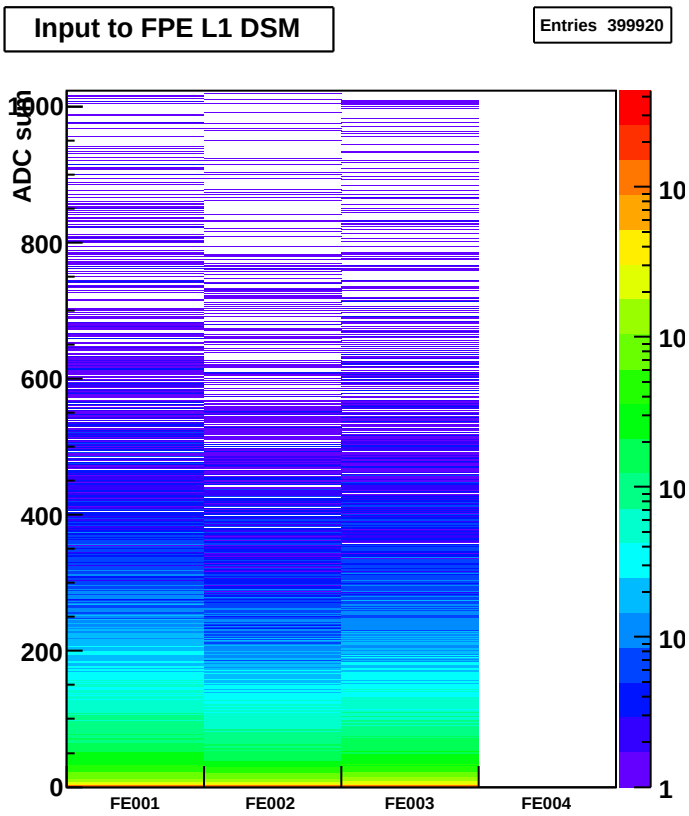

Input to FPD L2 DSM
Entries 399920
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^4
10^3
10^2
10
1

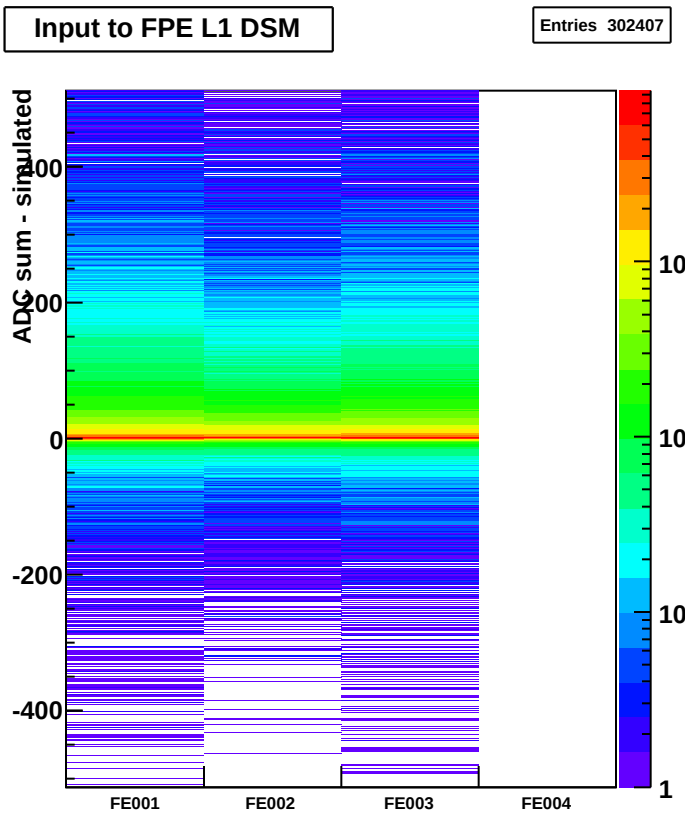

Input to FE001 QT board
Entries3199360
ADC
channel

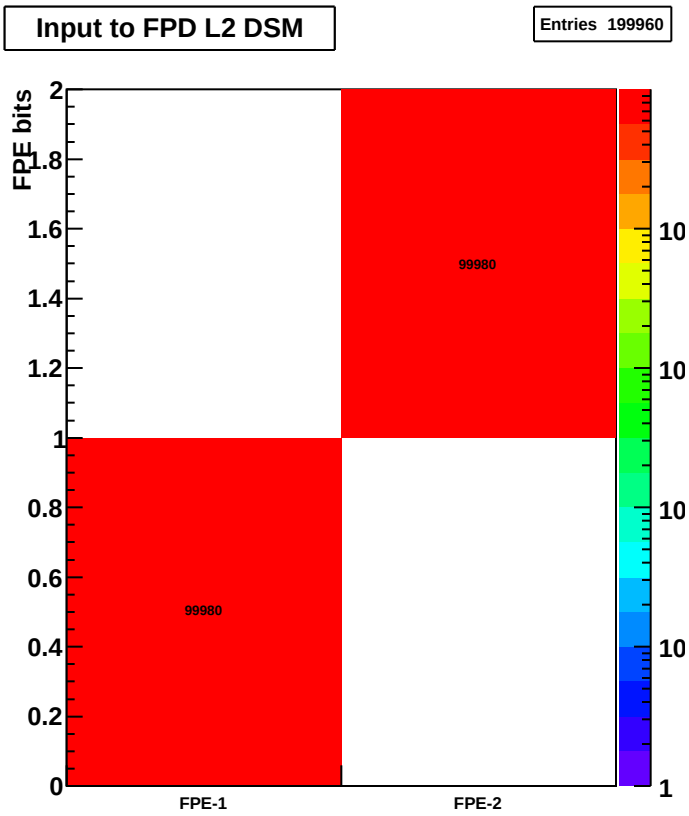

Input to FE002 QT board
Entries3199360
ADC
channel

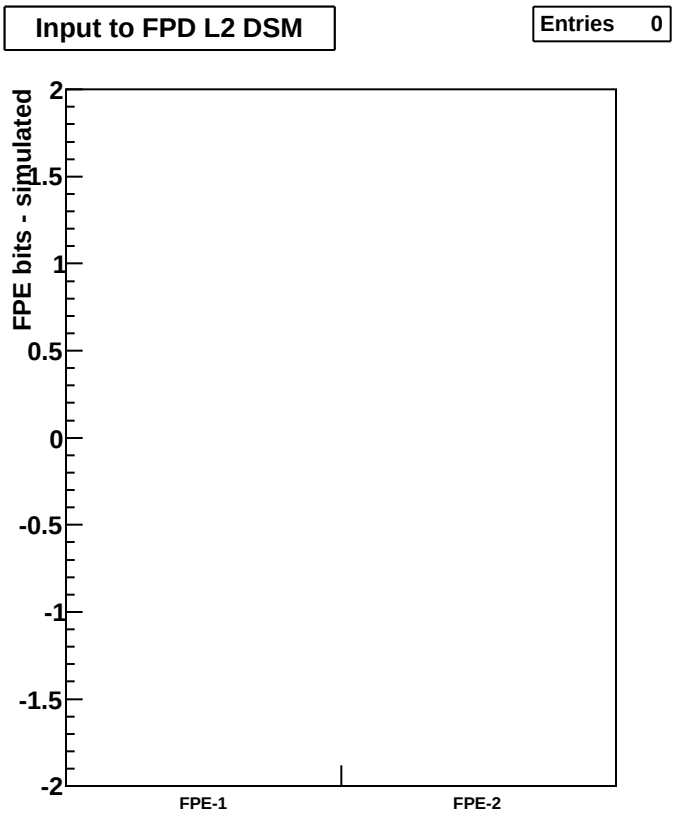

Input to FE003 QT board
Entries3199360
ADC
channel


Input to FE004 QT board
Entries3199360
ADC
channel


Input to FPE L1 DSM
Entries 399920
ADC sum
1000
800
600
400
200
0
FE001
FE002
FE003
FE004
10
10
10
10
1


Input to FPE L1 DSM
Entries 302407
ADC sum - simulated
400
200
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
1


Input to FPD L2 DSM
Entries 199960
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
99980
99980
FPE-1
FPE-2
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