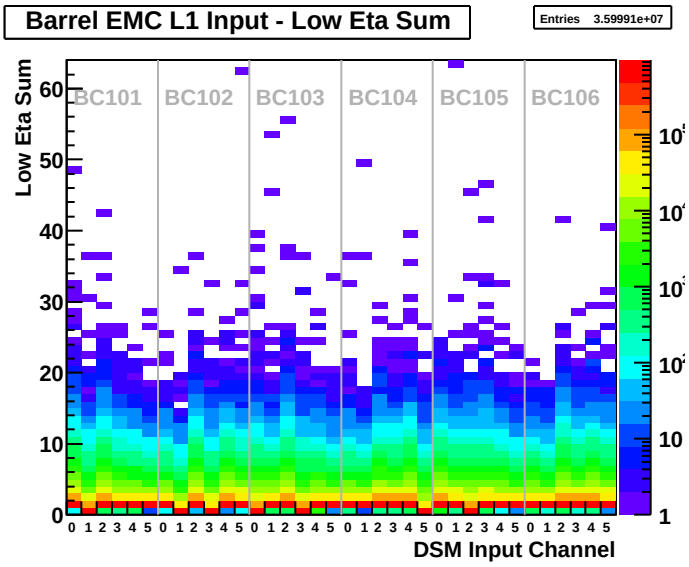
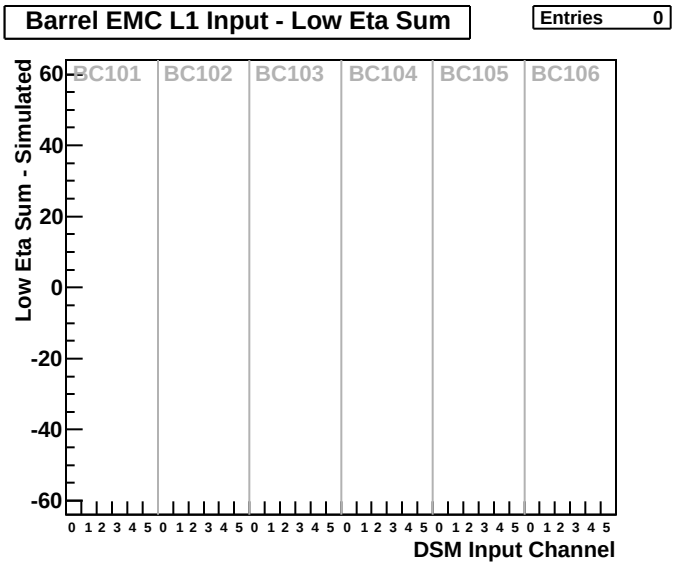
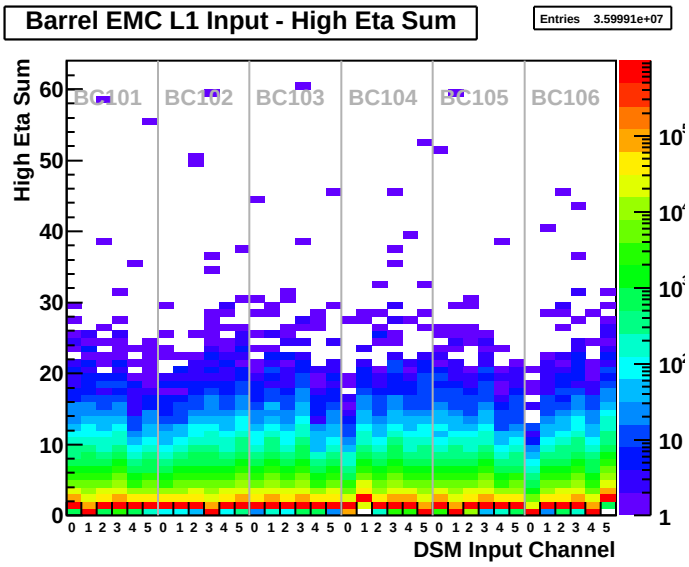
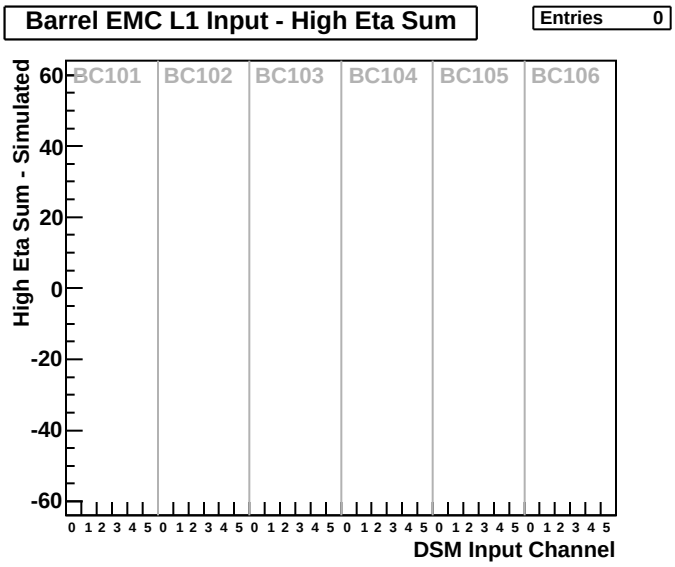
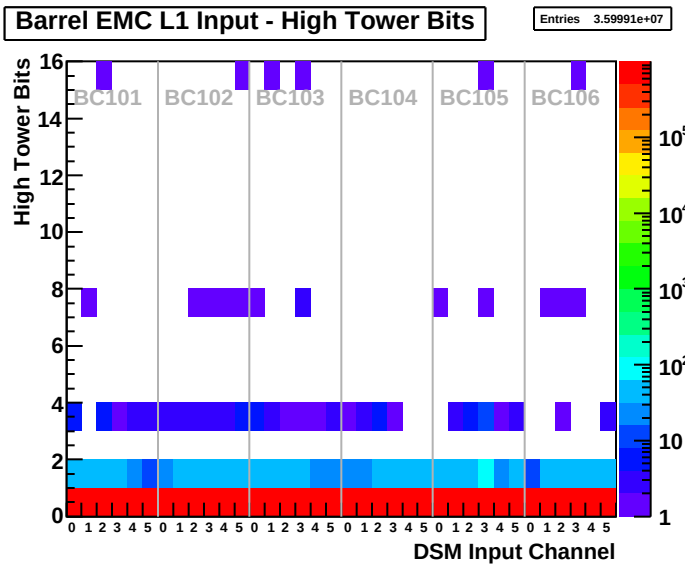
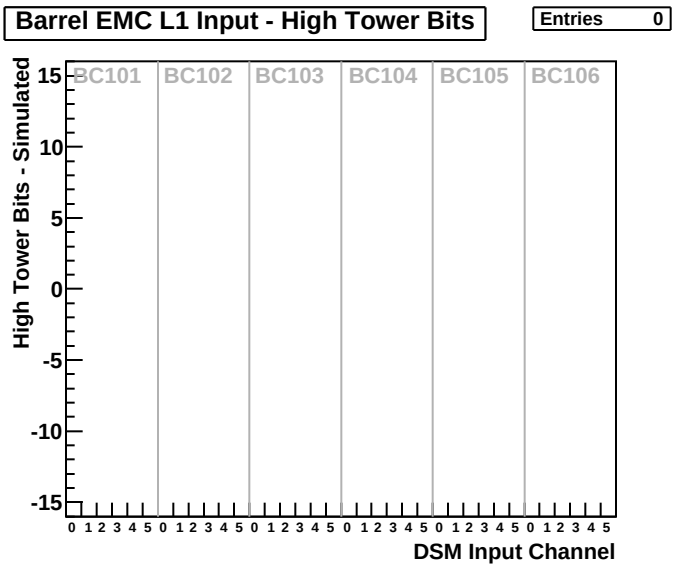

Barrel EMC L1 Input - Low Eta Sum
Entries 3.59991e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

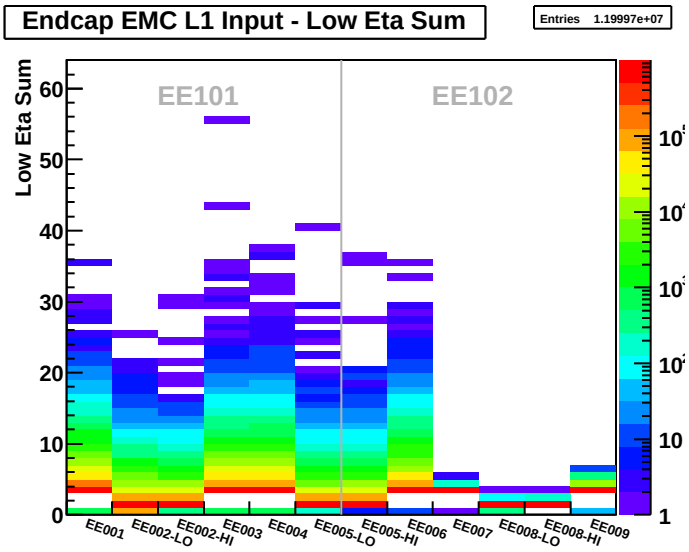

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

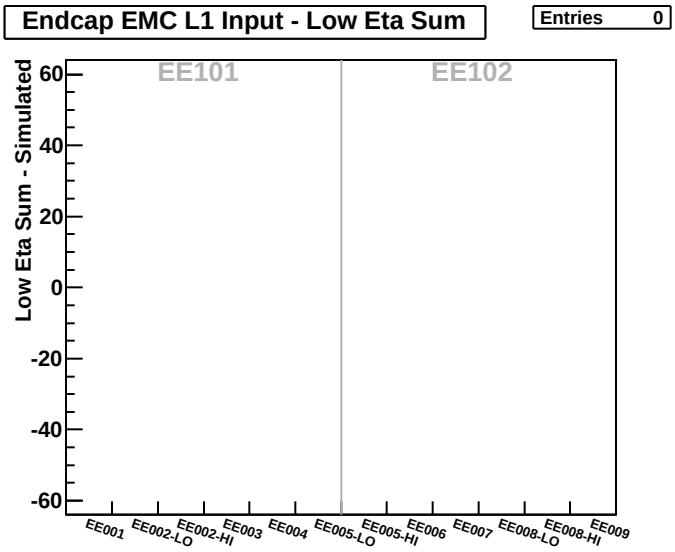

Barrel EMC L1 Input - High Eta Sum
Entries 3.59991e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

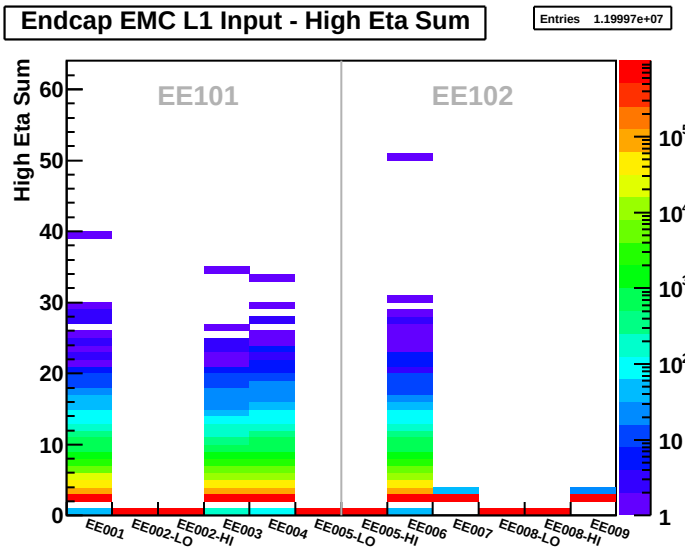

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

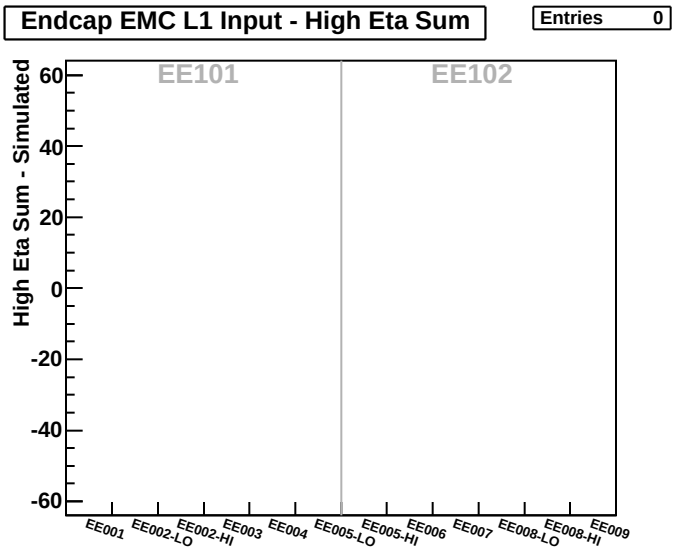

Barrel EMC L1 Input - High Tower Bits
Entries 3.59991e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

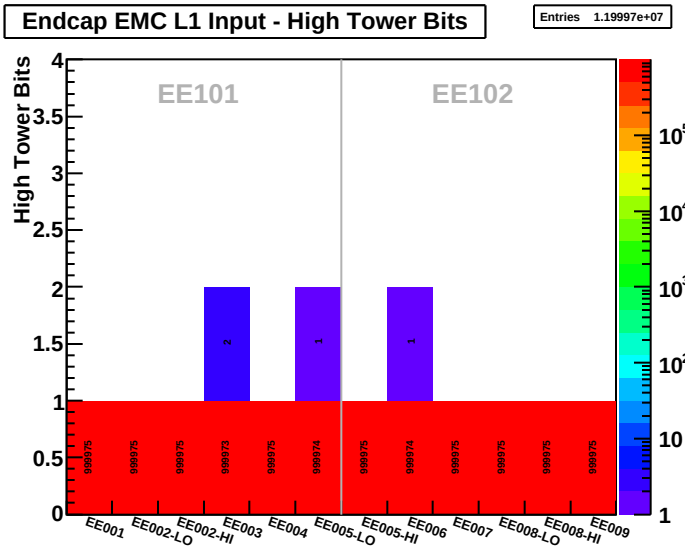

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

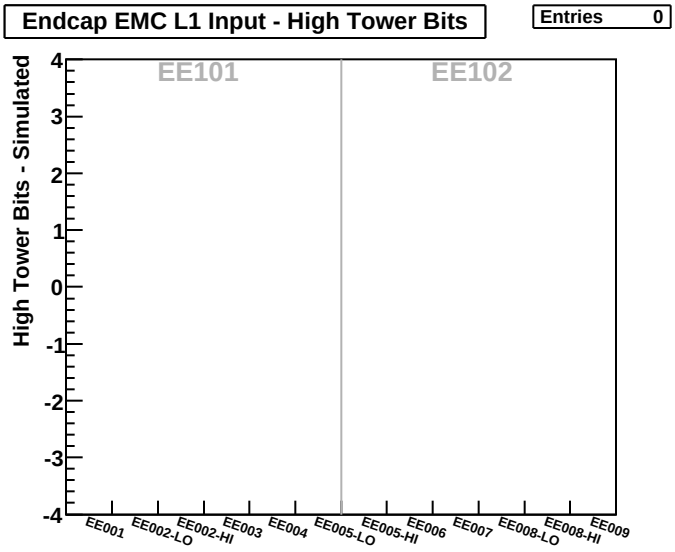

Endcap EMC L1 Input - Low Eta Sum
Entries 1.19997e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

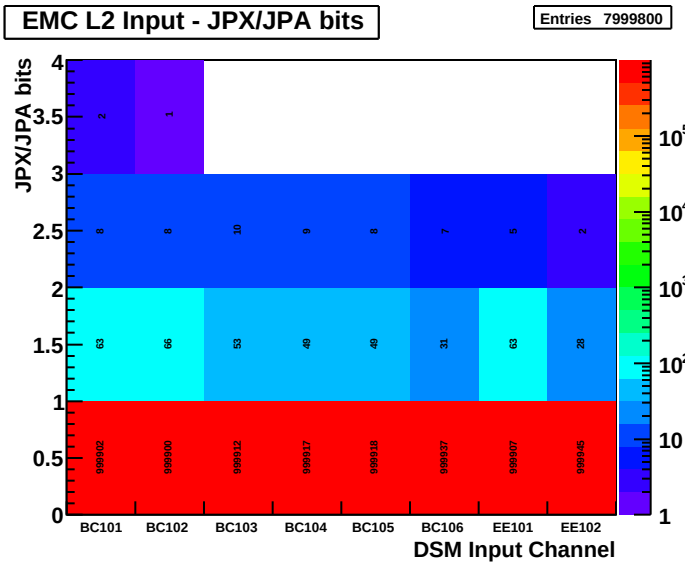

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

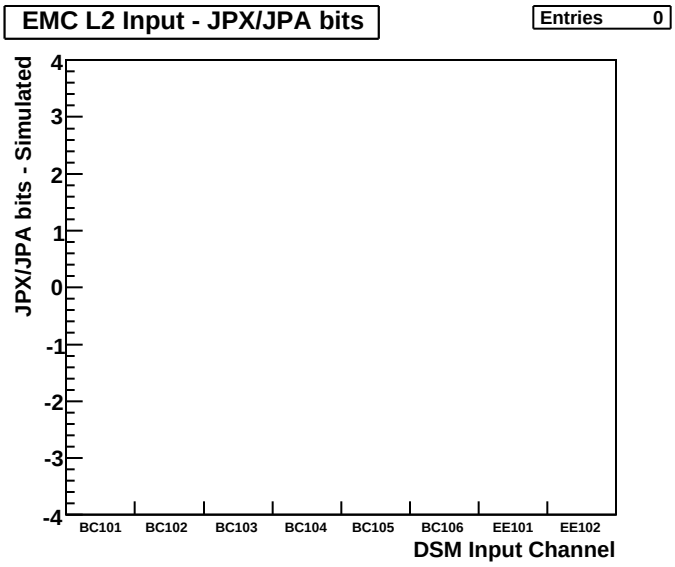

Endcap EMC L1 Input - High Eta Sum
Entries 1.19997e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

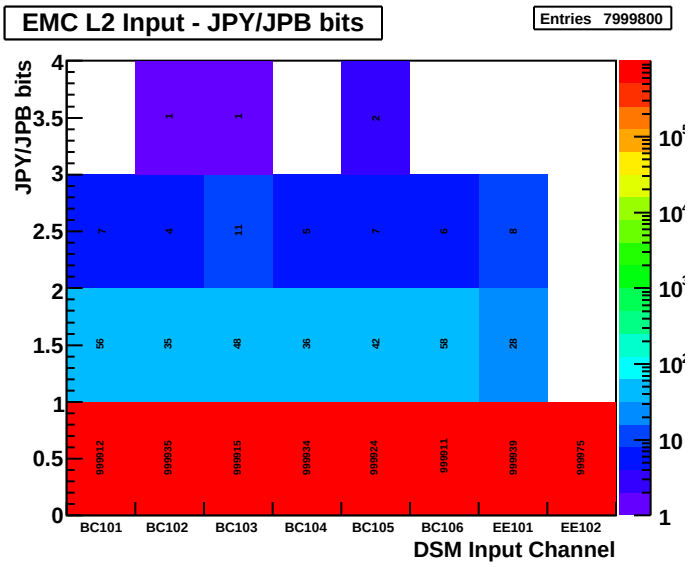

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

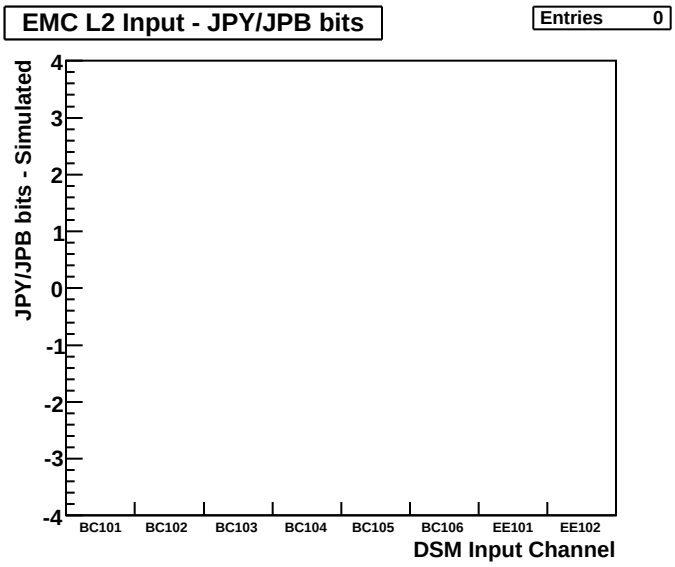

Endcap EMC L1 Input - High Tower Bits
Entries 1.19997e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

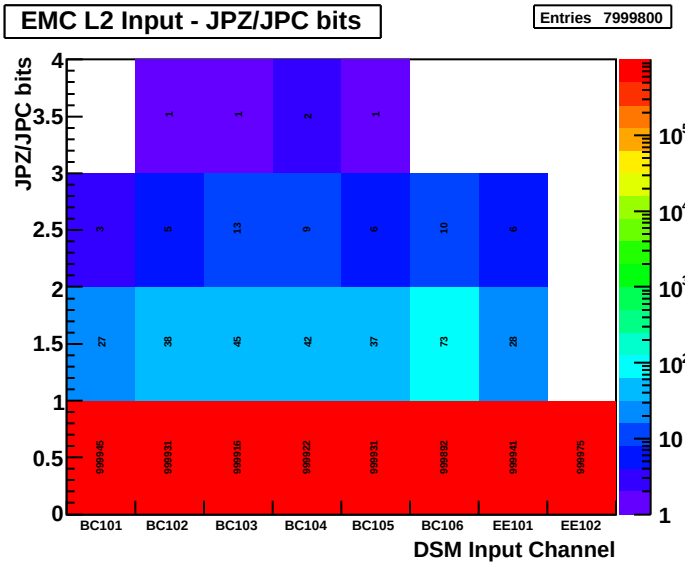

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

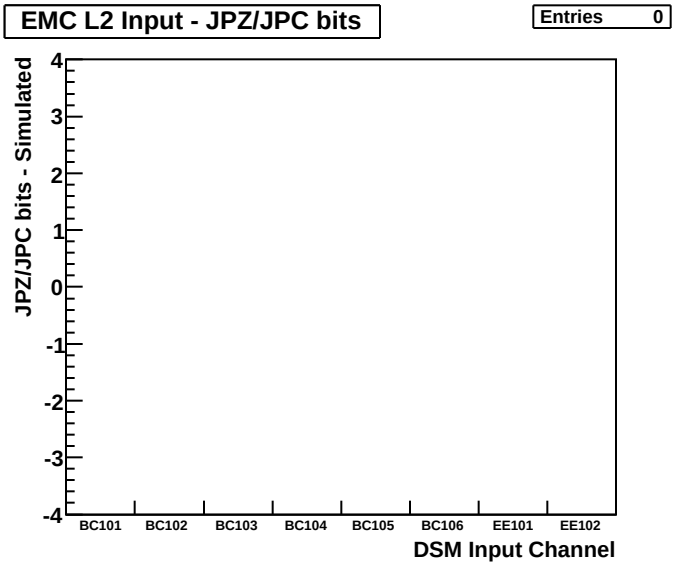

EMC L2 Input - JPX/JPA bits
Entries 7999800
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2 1
8 8 10 9 8 7 5 2
63 66 53 49 49 31 63 28
999902 999900 999912 999917 999918 999937 999907 999945

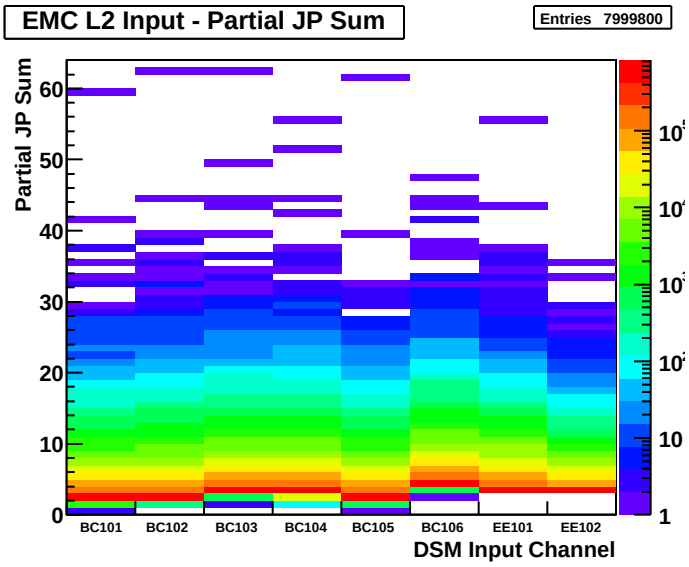

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

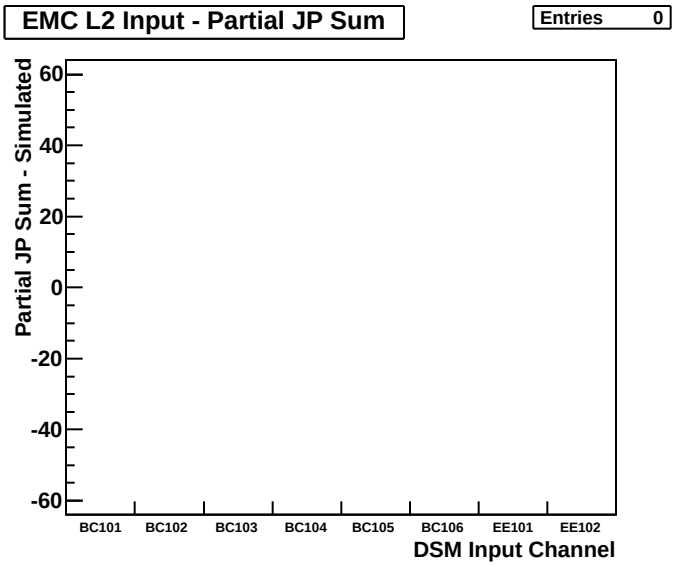

EMC L2 Input - JPY/JPB bits
Entries 7999800
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 2
7 4 11 5 7 6 8
56 35 48 36 42 58 28
999912 999935 999915 999934 999924 999911 999939 999975

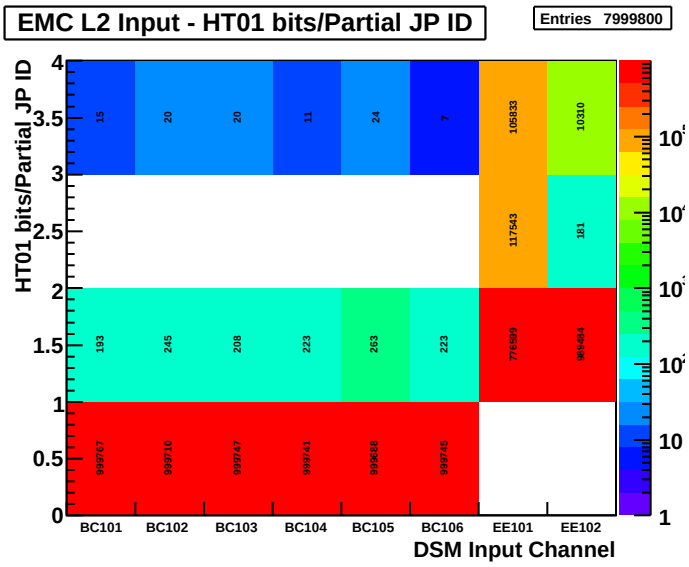

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

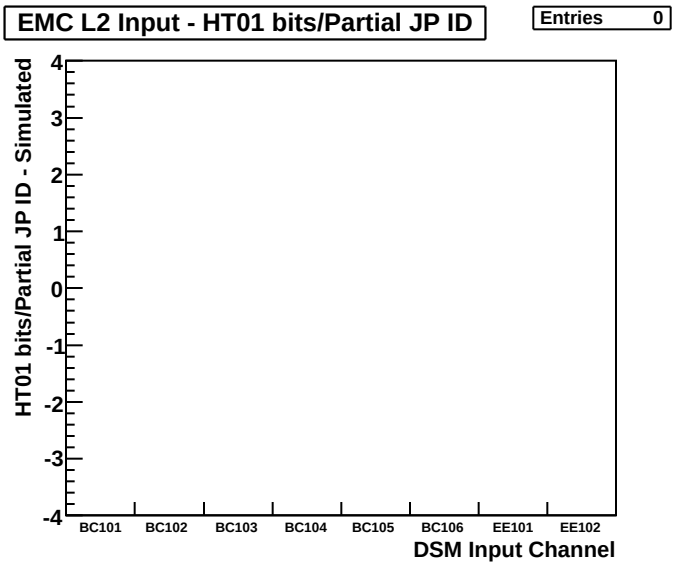

EMC L2 Input - JPZ/JPC bits
Entries 7999800
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 2 1
3 5 13 9 6 10 6
27 38 45 42 37 73 28
999945 999931 999916 999922 999931 999892 999941 999975

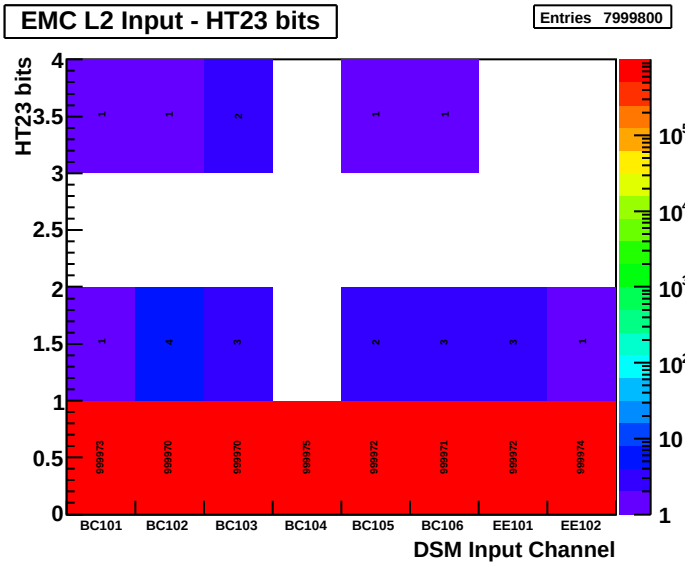

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

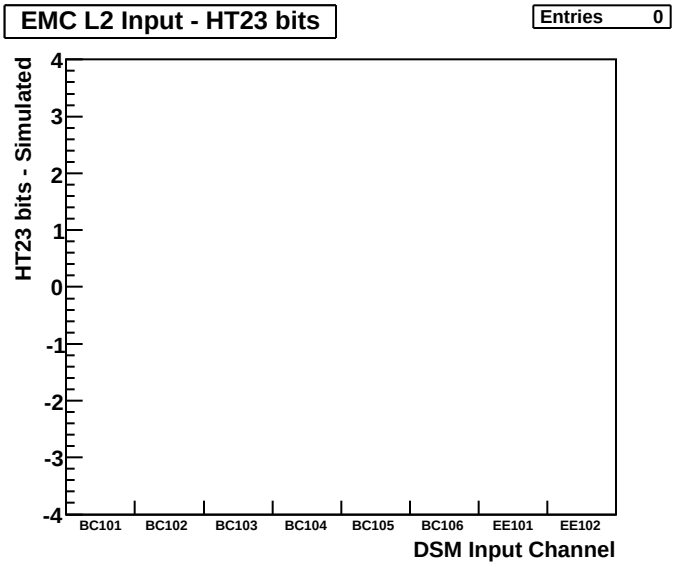

EMC L2 Input - Partial JP Sum
Entries 7999800
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

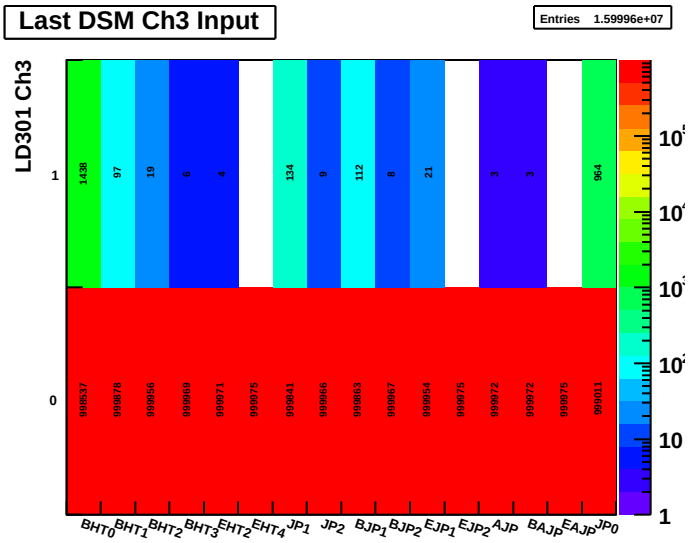

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

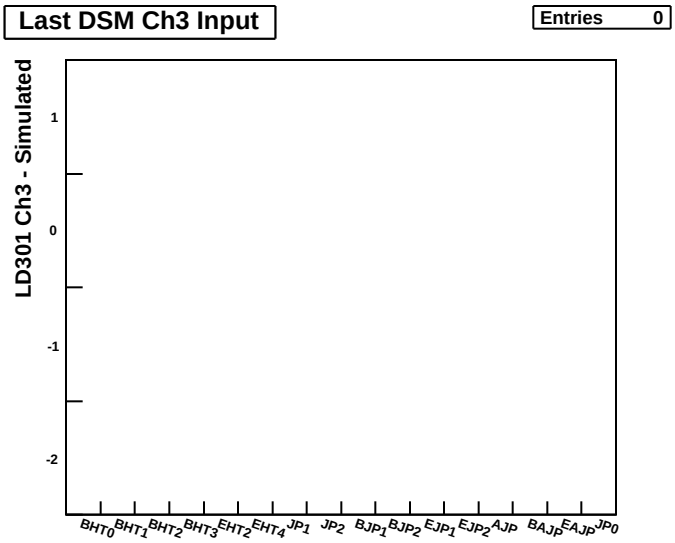

EMC L2 Input - HT01 bits/Partial JP ID
Entries 7999800
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

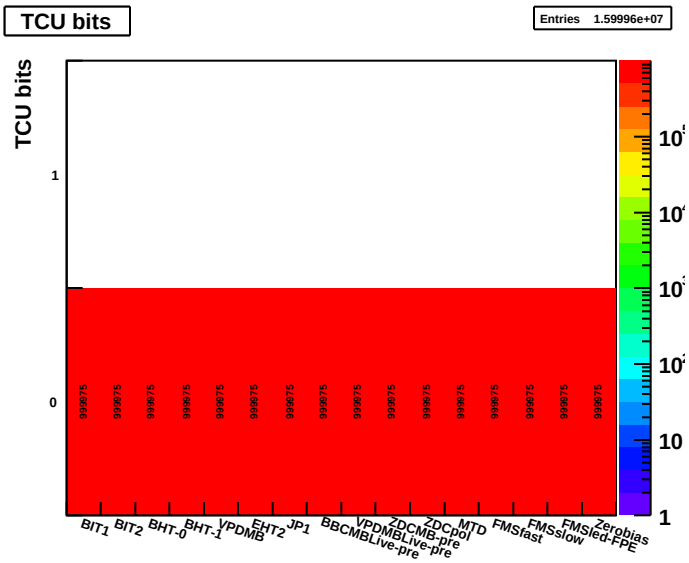

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

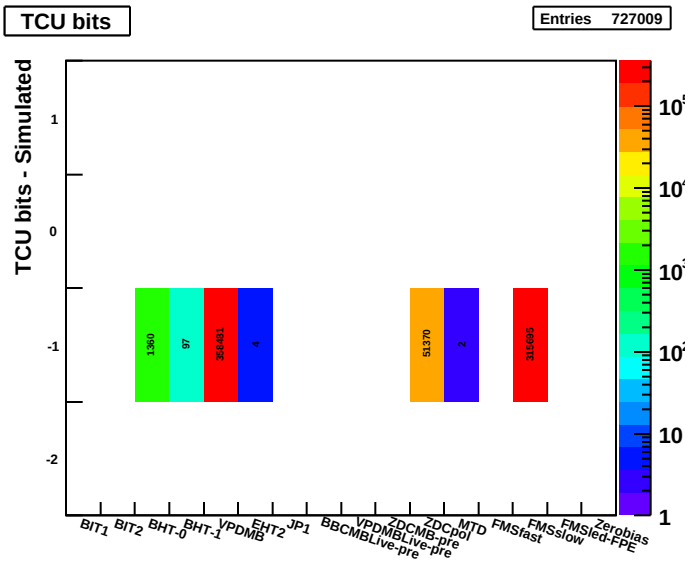

EMC L2 Input - HT23 bits
Entries 7999800
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

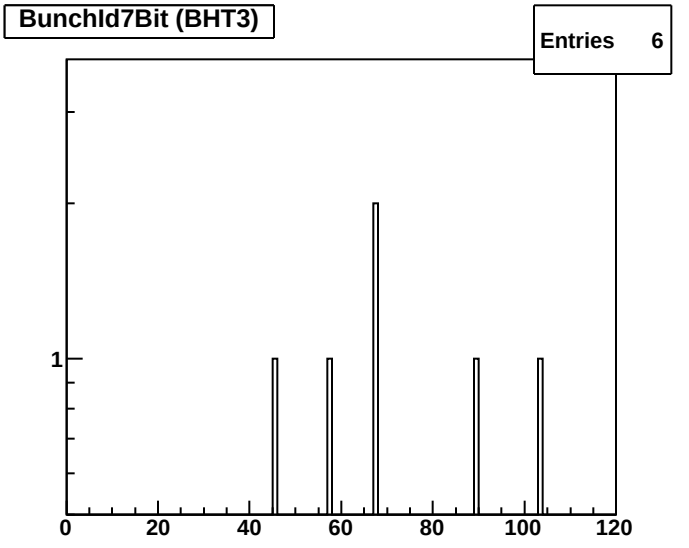

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

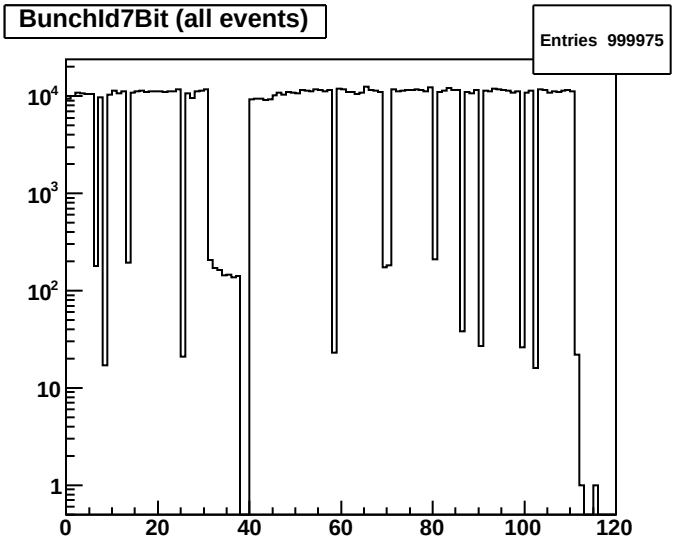

Last DSM Ch3 Input
Entries 1.59996e+07
LD301 Ch3
1438 97 19 6 4 134 9 112 8 21 3 3 964
998537 999878 999956 999969 999971 999975 999941 999966 999863 999967 999954 999975 999972 999972 999975 999011
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

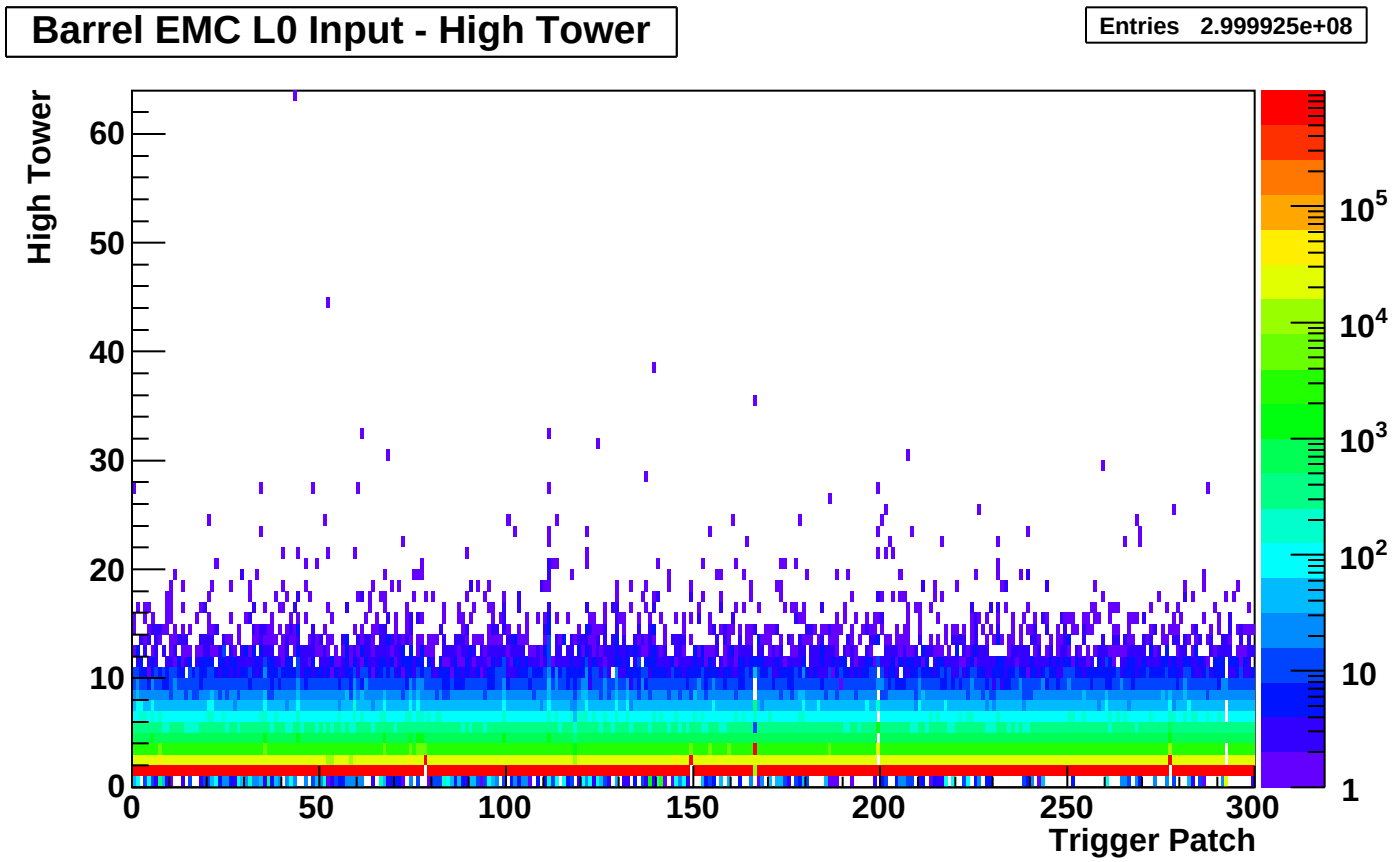

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

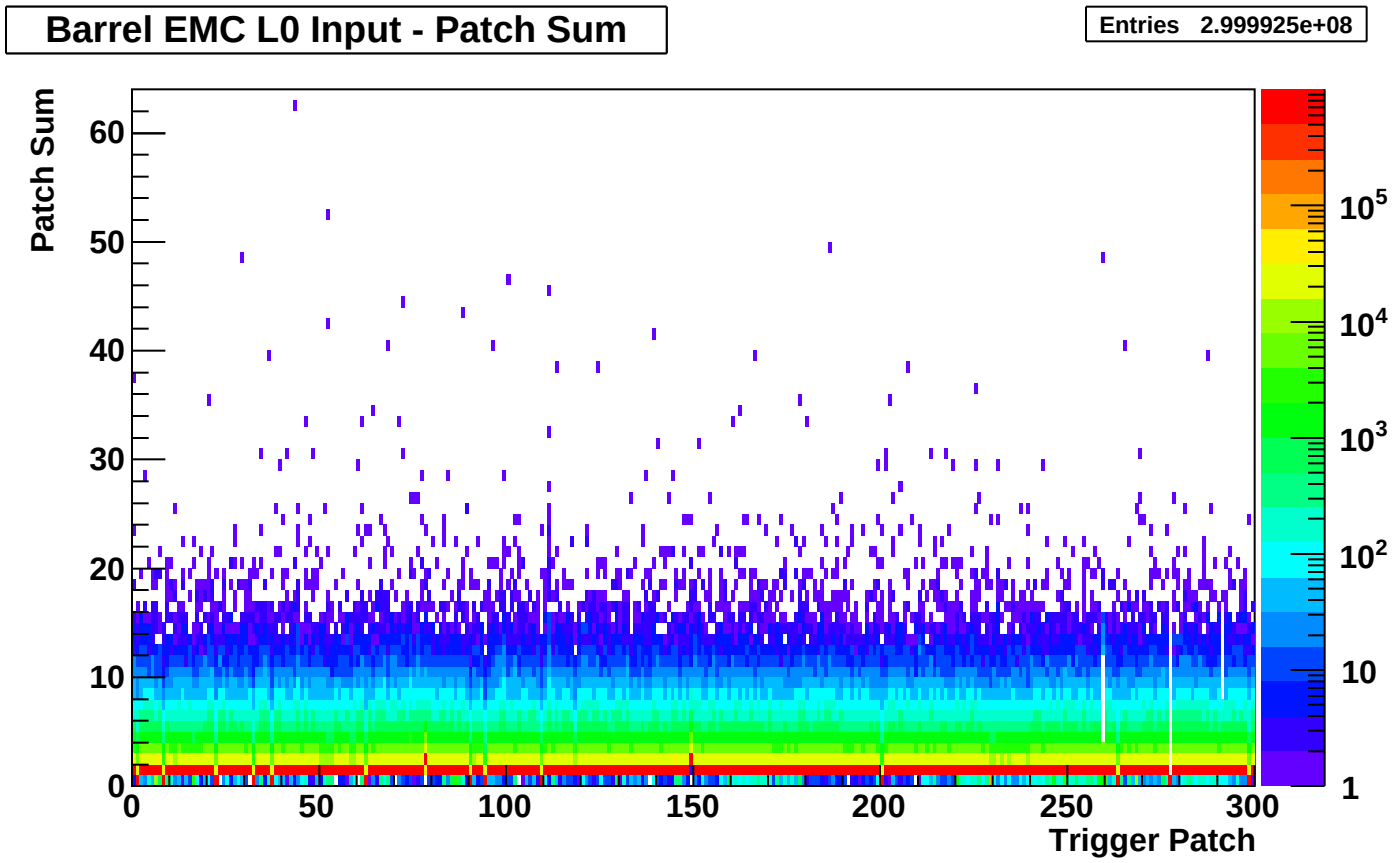

TCU bits
Entries 1.59996e+07
TCU bits
999975 999975 999975 999975 999975 999975 999975 999975 999975 999975 999975 999975 999975 999975 999975 999975
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

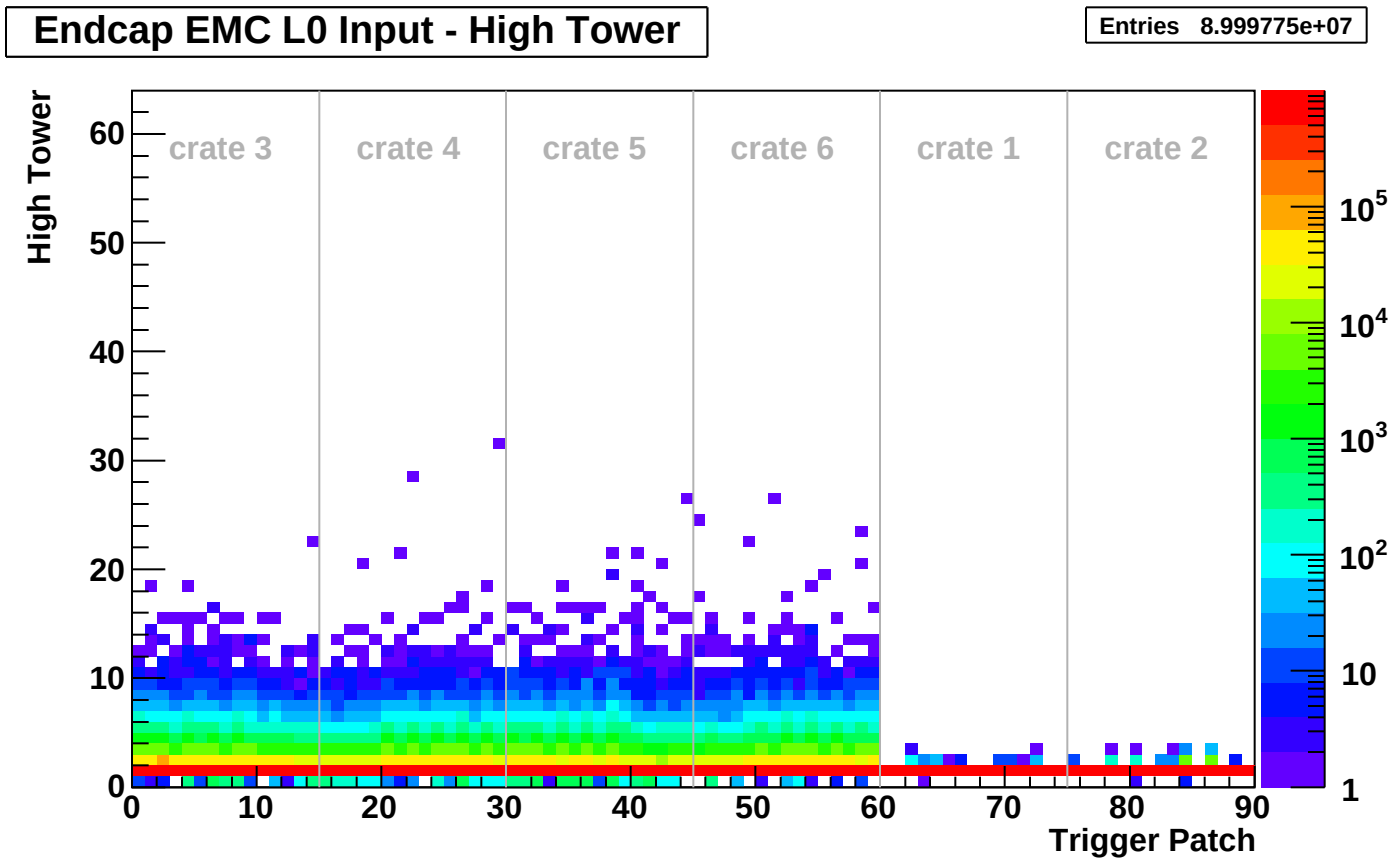

TCU bits
Entries 727009
TCU bits - Simulated
1360 97 359481 4 51370 2 315685
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

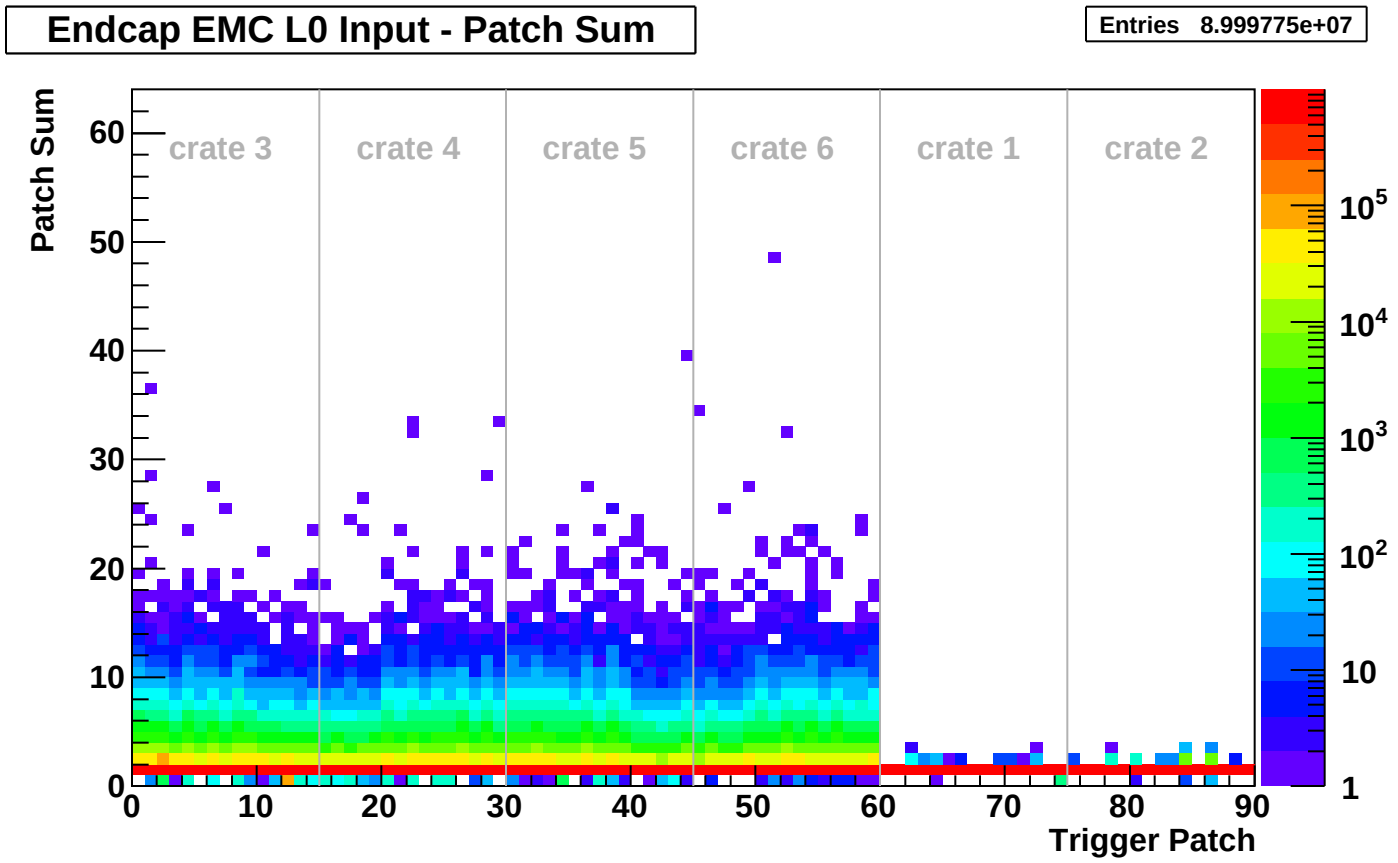

BunchId7Bit (BHT3)
Entries 6

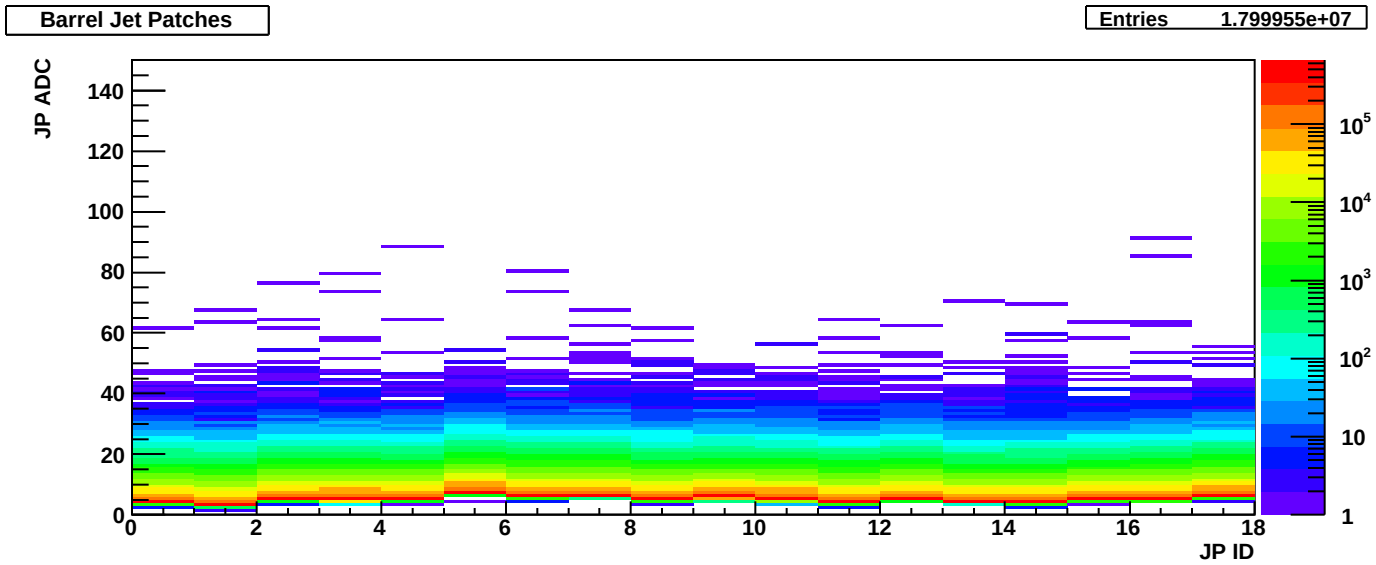

BunchId7Bit (all events)
Entries 999975

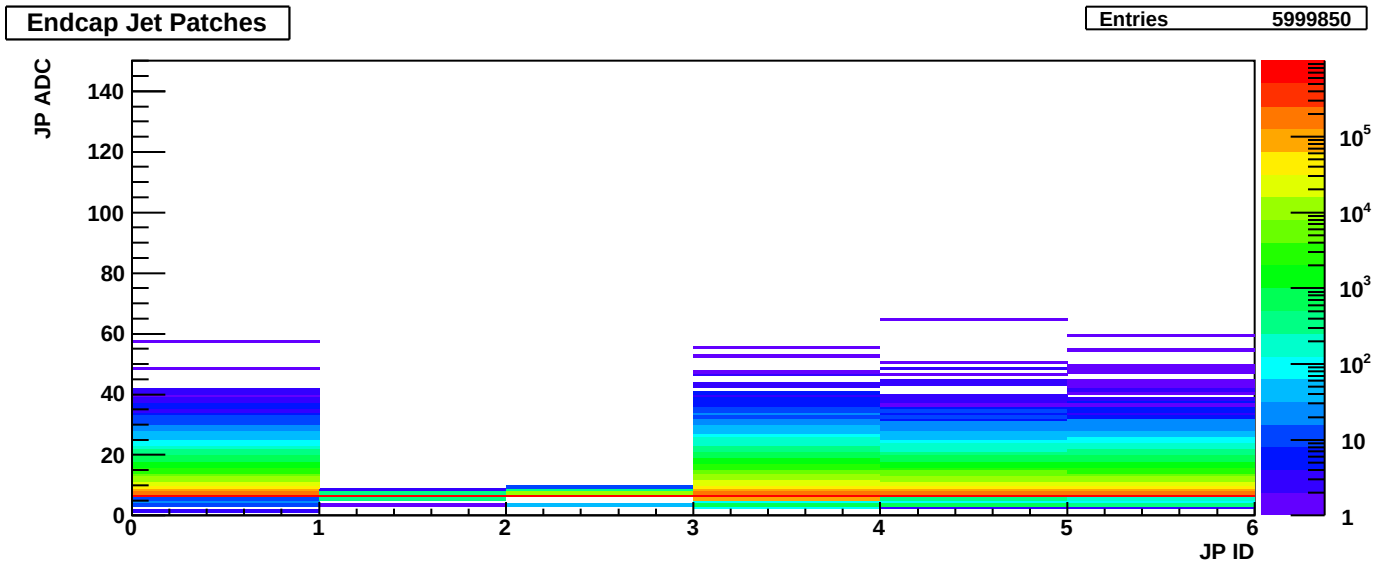

Barrel EMC L0 Input - High Tower
Entries 2.999925e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

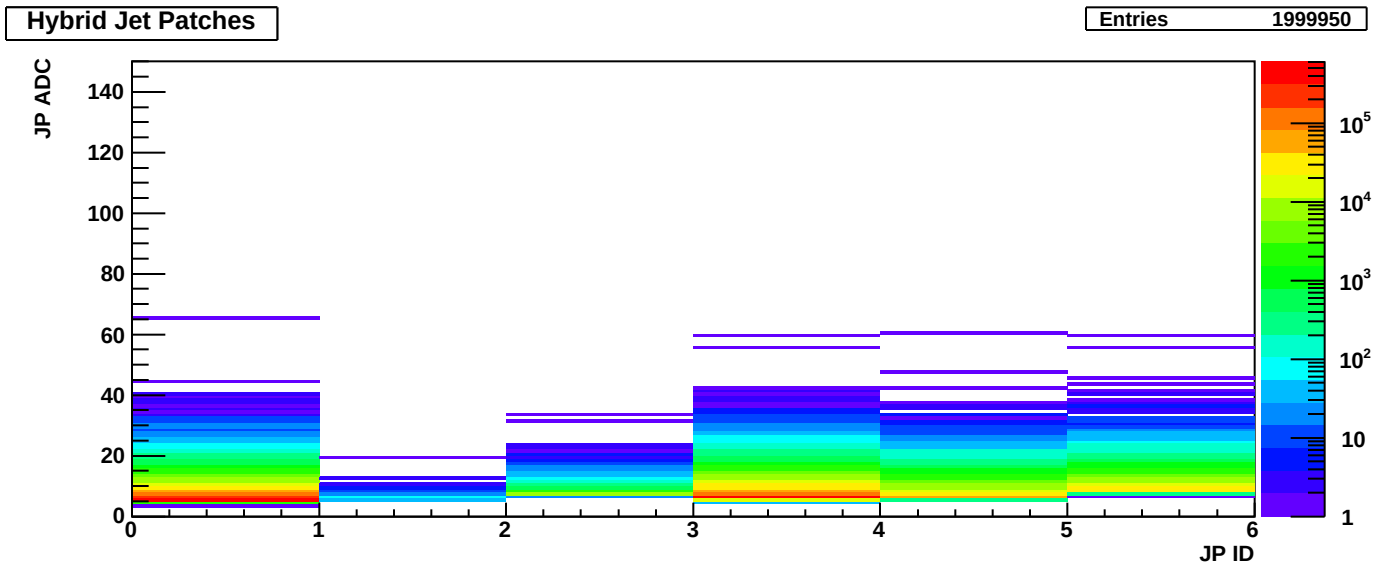

Barrel EMC L0 Input - Patch Sum
Entries 2.999925e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

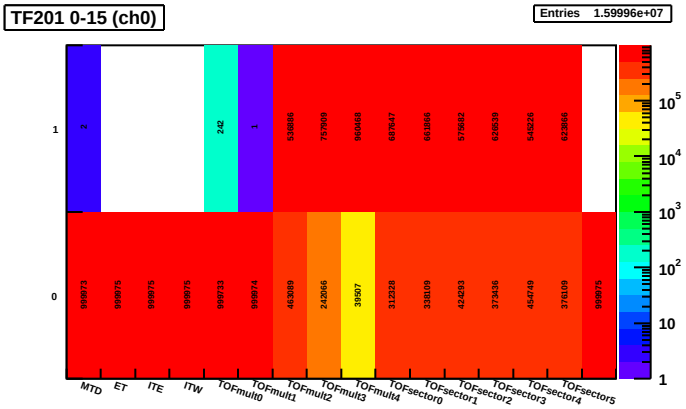

Endcap EMC L0 Input - High Tower
Entries 8.999775e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

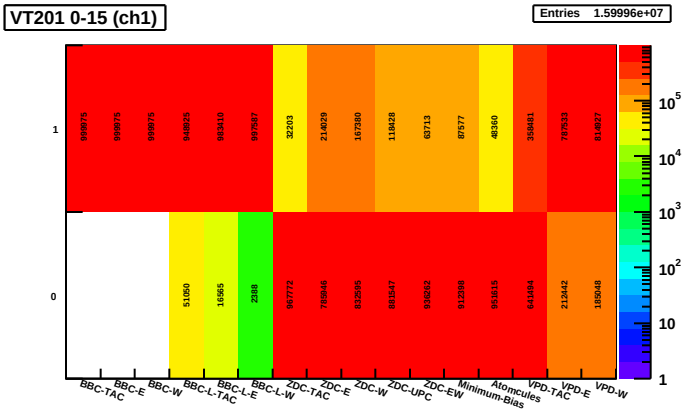

Endcap EMC L0 Input - Patch Sum
Entries 8.999775e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

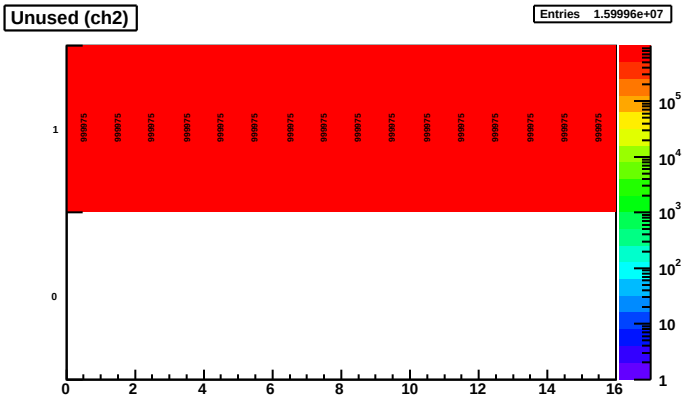

Barrel Jet Patches
Entries 1.799955e+07
JP ADC
JP ID

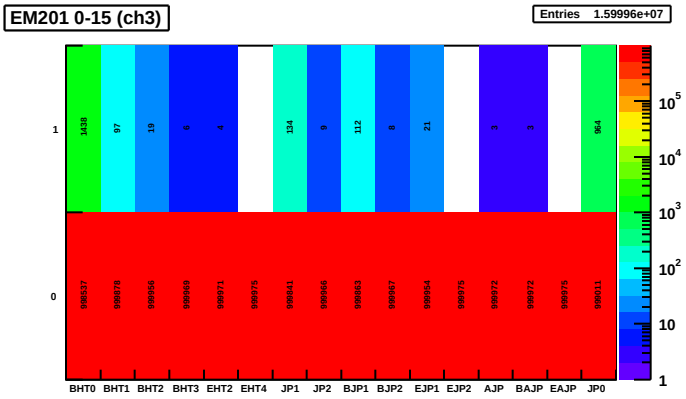

Endcap Jet Patches
Entries 5999850
JP ADC
JP ID

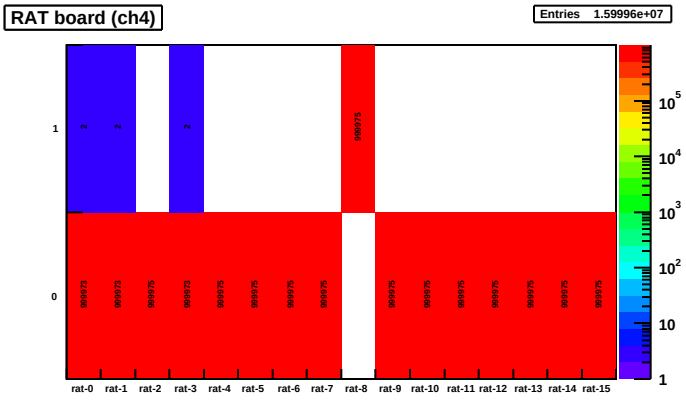

Hybrid Jet Patches
Entries 1999950
JP ADC
JP ID

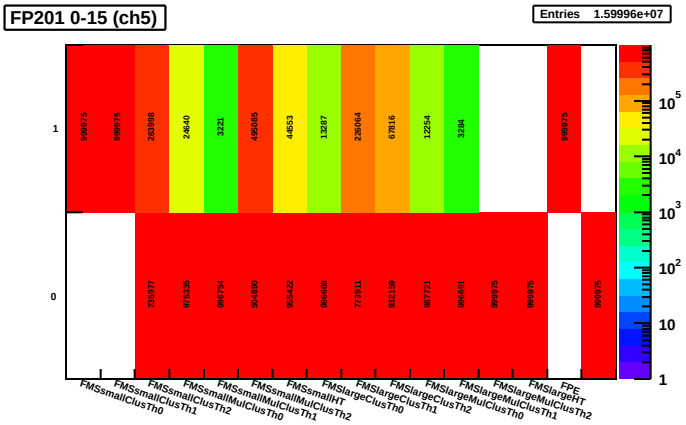

TF201 0-15 (ch0)
Entries 1.59996e+07
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

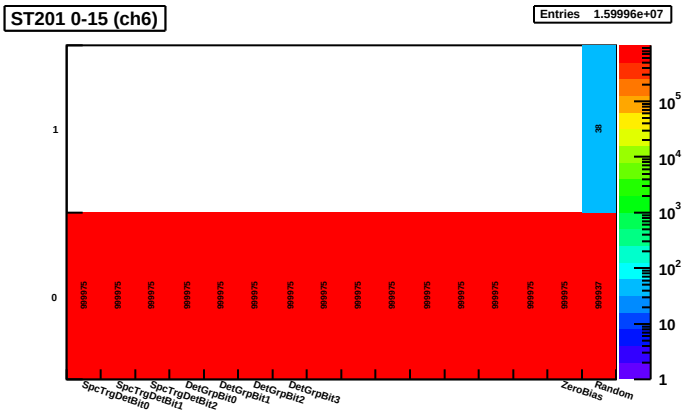

VT201 0-15 (ch1)
Entries 1.59996e+07
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

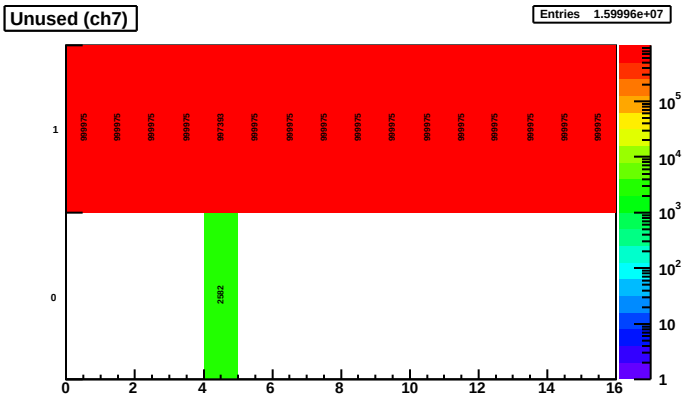

Unused (ch2)
Entries 1.59996e+07

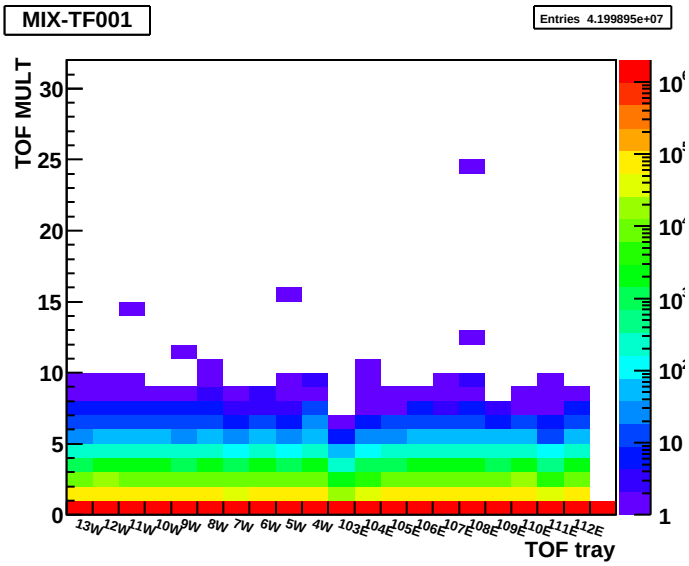

EM201 0-15 (ch3)
Entries 1.59996e+07
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

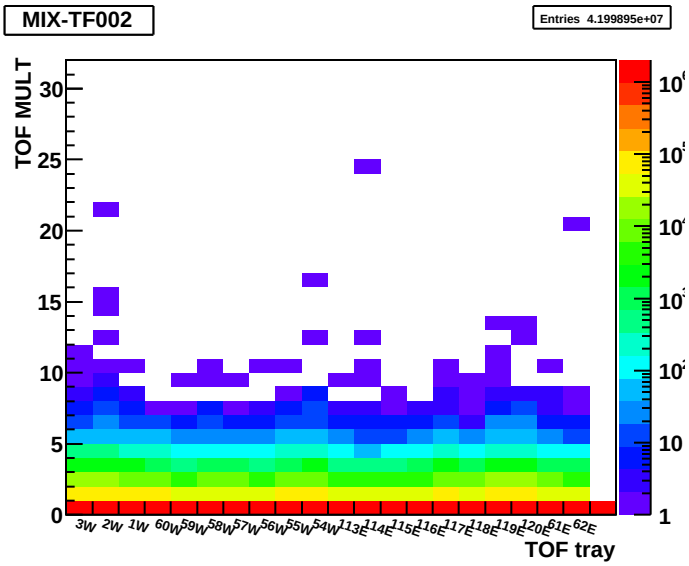

RAT board (ch4)
Entries 1.59996e+07
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

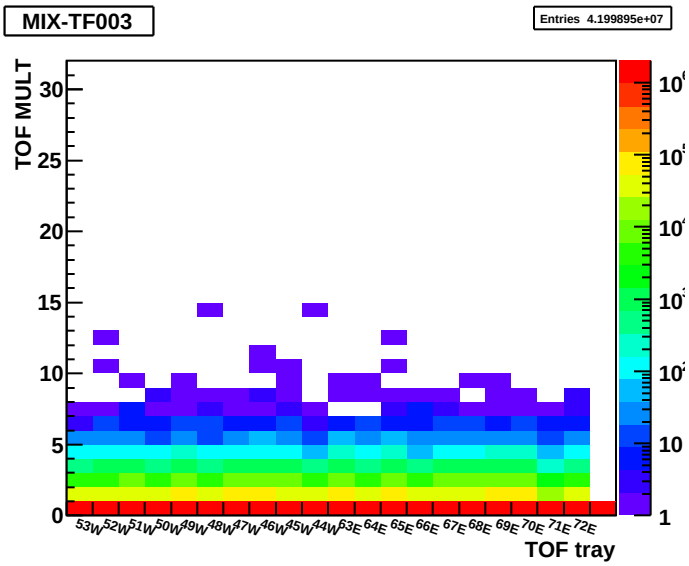

FP201 0-15 (ch5)
Entries 1.59996e+07
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

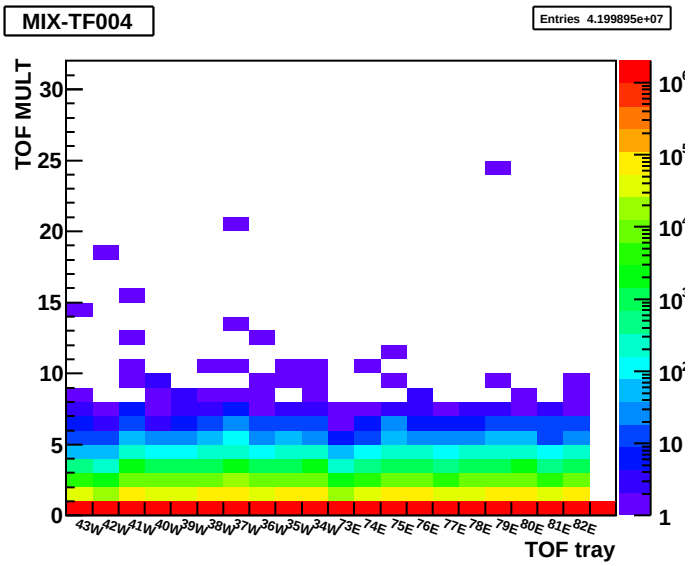

ST201 0-15 (ch6)
Entries 1.59996e+07
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetCrpBit0
DetCrpBit1
DetCrpBit2
DetCrpBit3
ZeroBias
Random

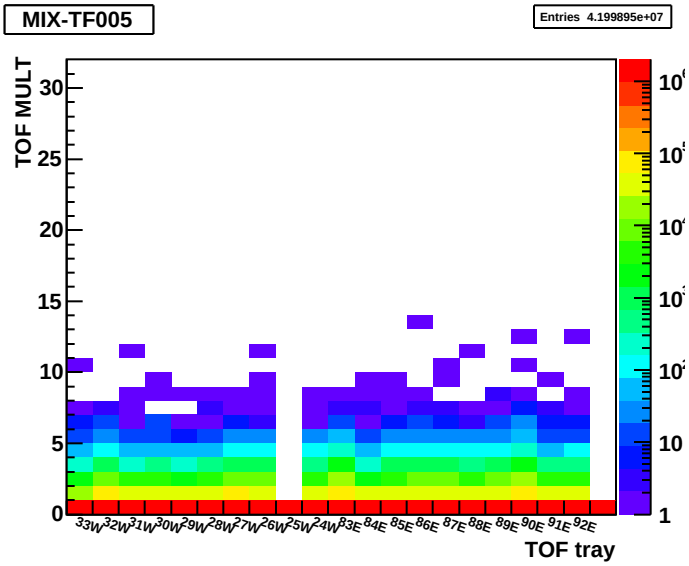

Unused (ch7)
Entries 1.59996e+07

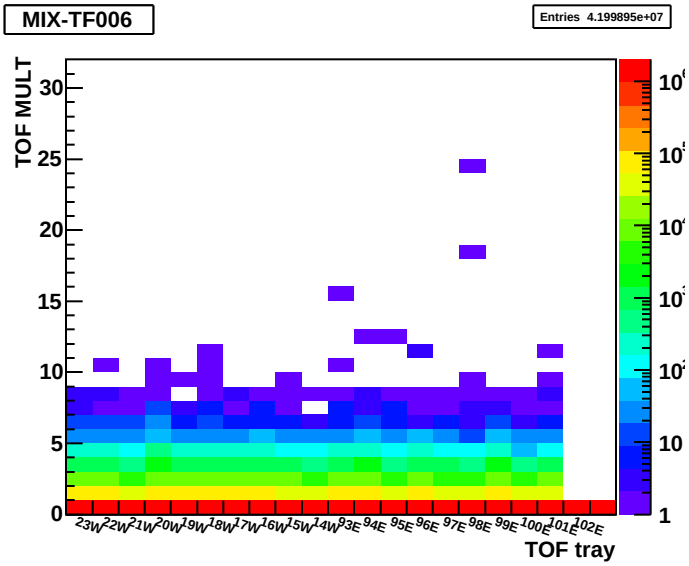

MIX-TF001
Entries 4.199895e+07
TOF MULT
TOF tray

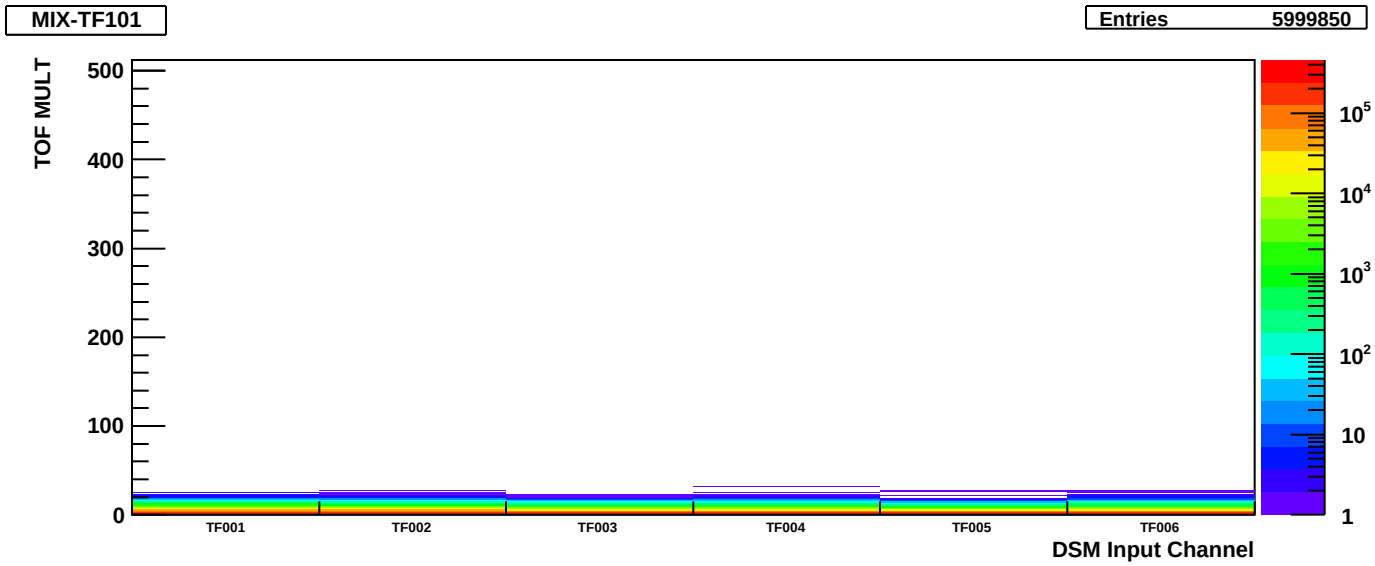

MIX-TF002
Entries 4.199895e+07
TOF MULT
TOF tray

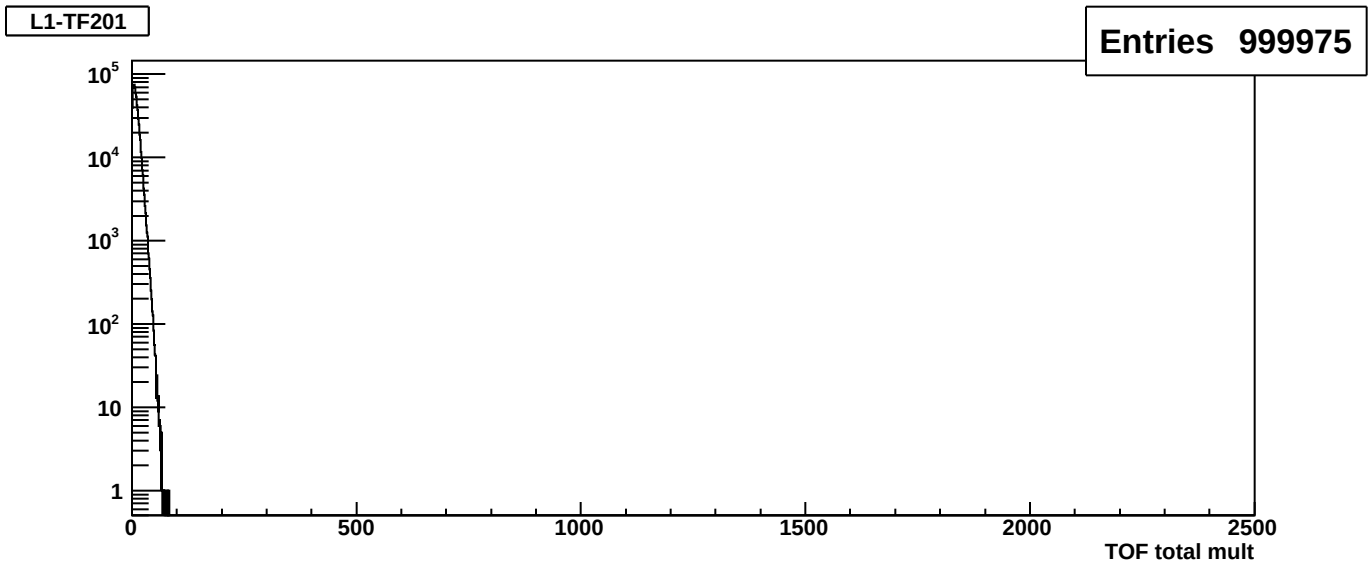

MIX-TF003
Entries 4.199895e+07
TOF MULT
TOF tray

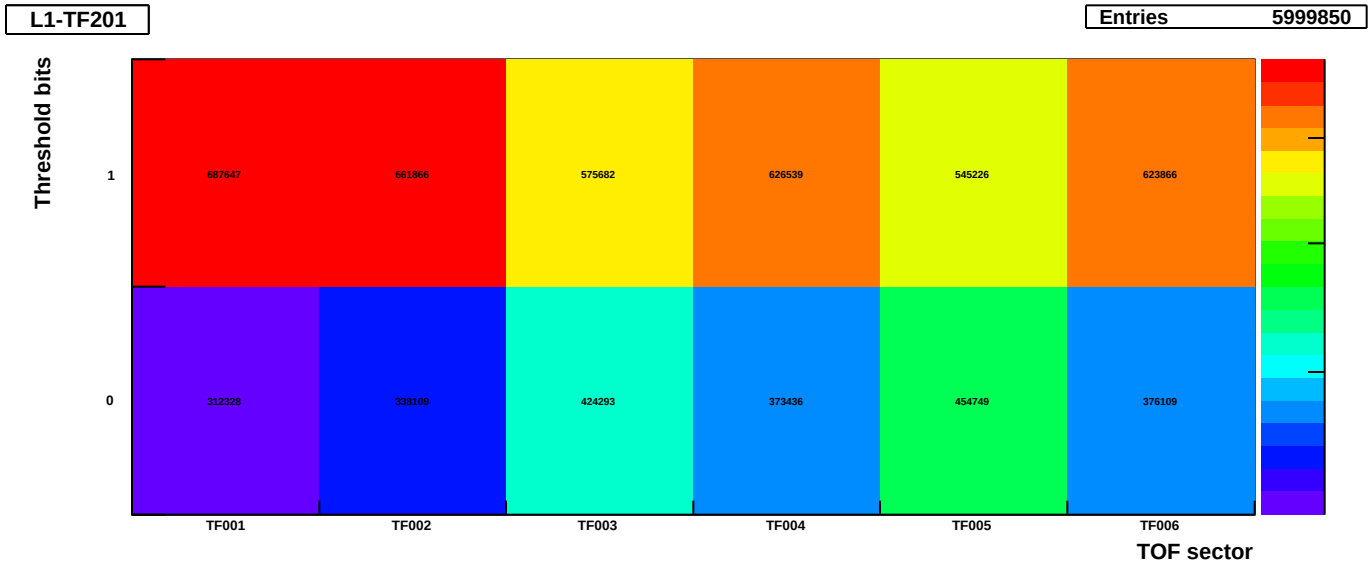

MIX-TF004
Entries 4.199895e+07
TOF MULT
TOF tray

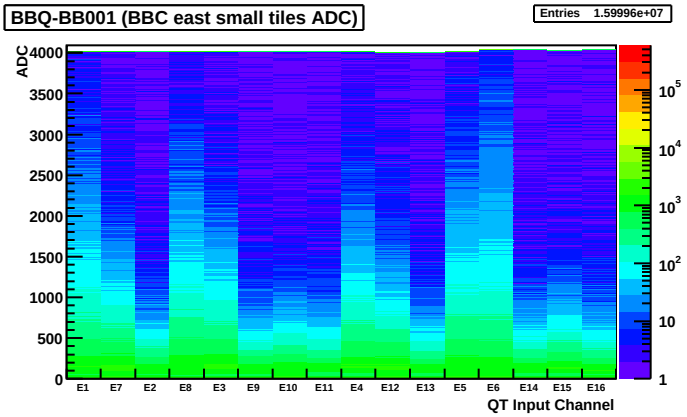

MIX-TF005
Entries 4.199895e+07
TOF MULT
TOF tray

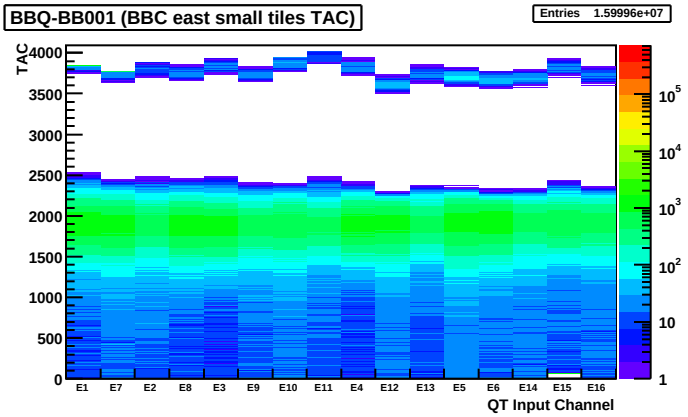

MIX-TF006
Entries 4.199895e+07
TOF MULT
TOF tray

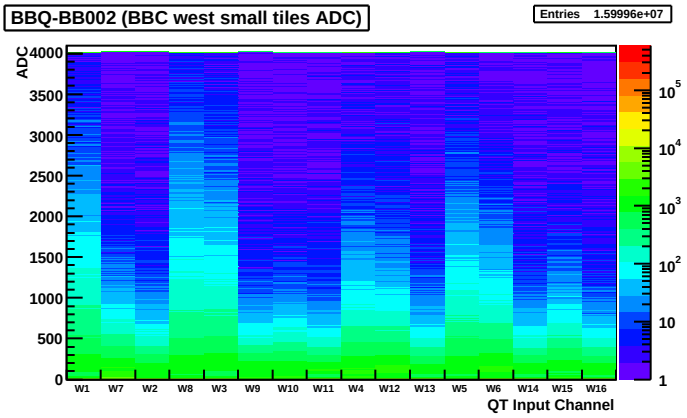

MIX-TF101
Entries 5999850
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

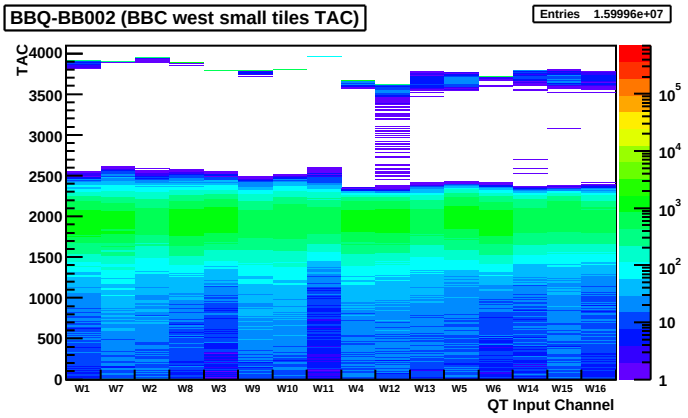

L1-TF201
Entries 999975
10^5
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

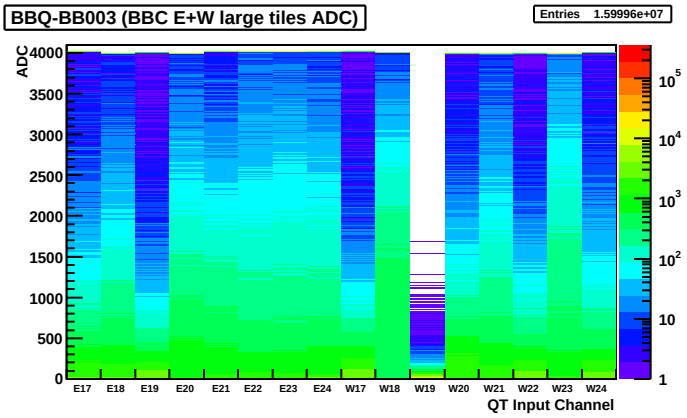

L1-TF201
Entries 5999850
Threshold bits
1
0
687647
661866
575682
626539
545226
623866
312328
338109
424293
373436
454749
376109
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

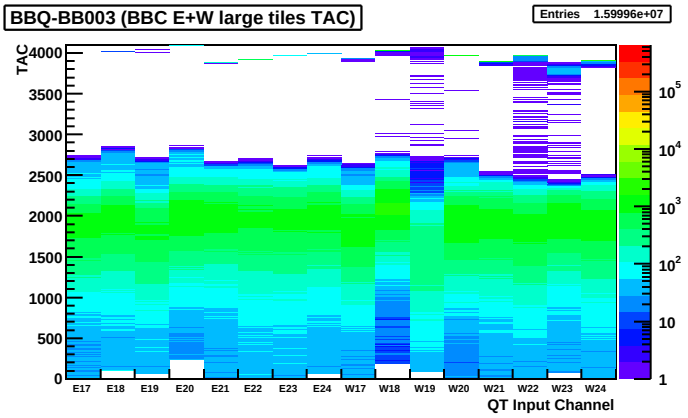

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.59996e+07
ADC
QT Input Channel

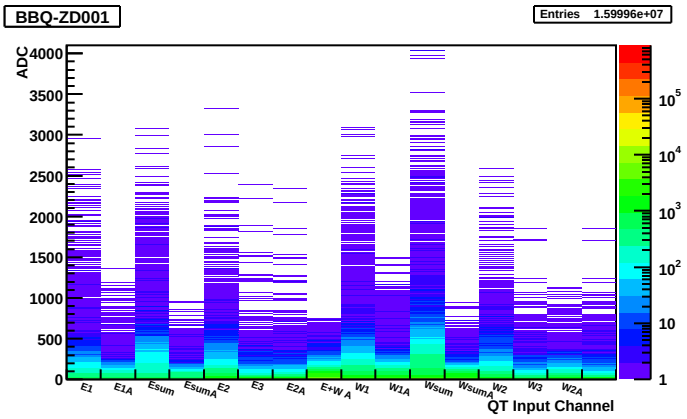

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.59996e+07
TAC
QT Input Channel

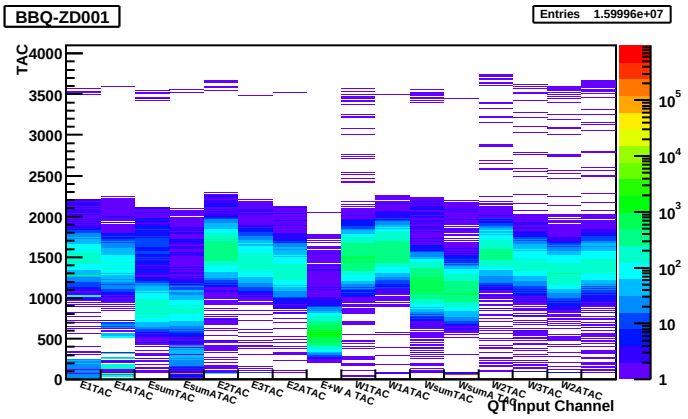

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.59996e+07
ADC
QT Input Channel

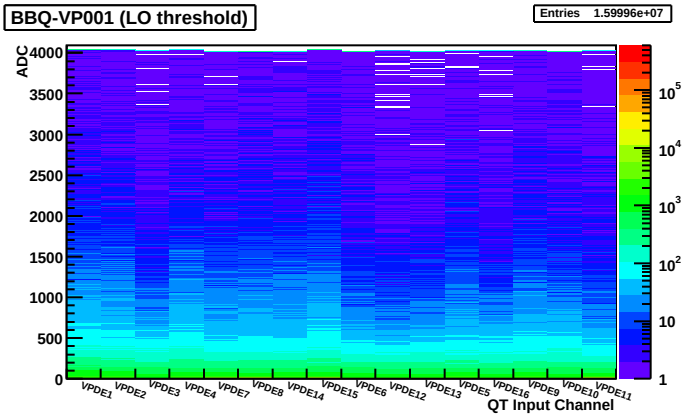

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.59996e+07
TAC
QT Input Channel

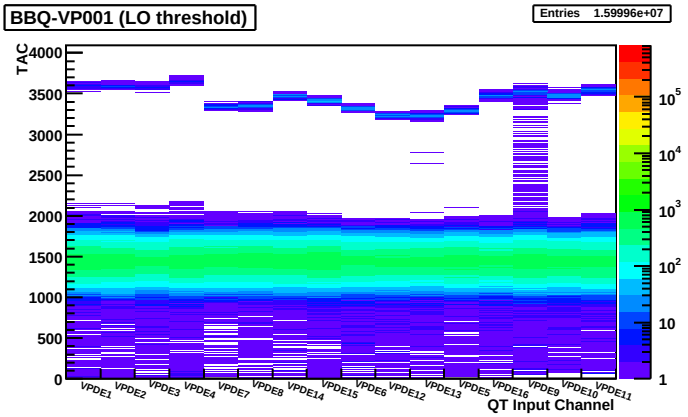

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.59996e+07
ADC
QT Input Channel

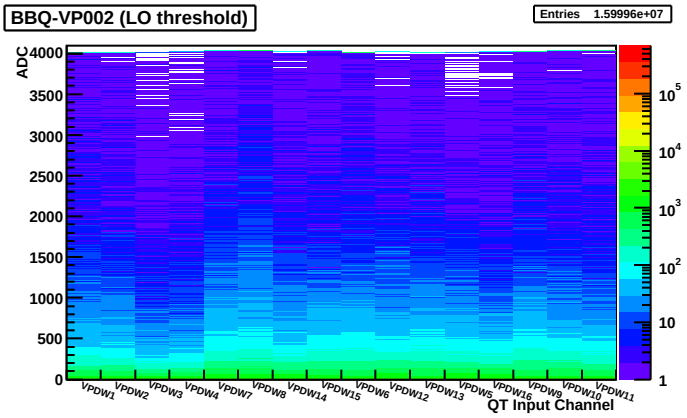

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.59996e+07
TAC
QT Input Channel

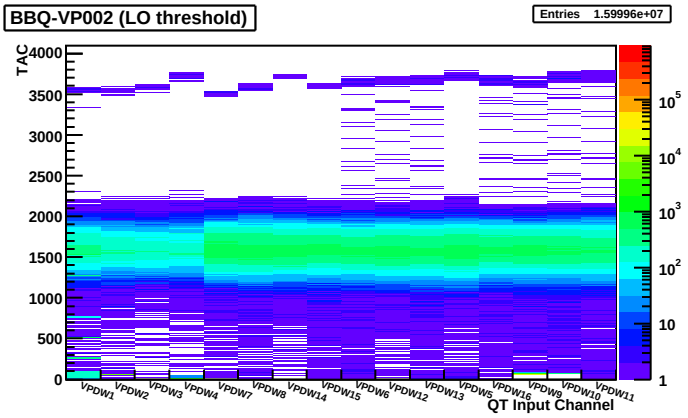

BBQ-ZD001
Entries 1.59996e+07
ADC
QT Input Channel

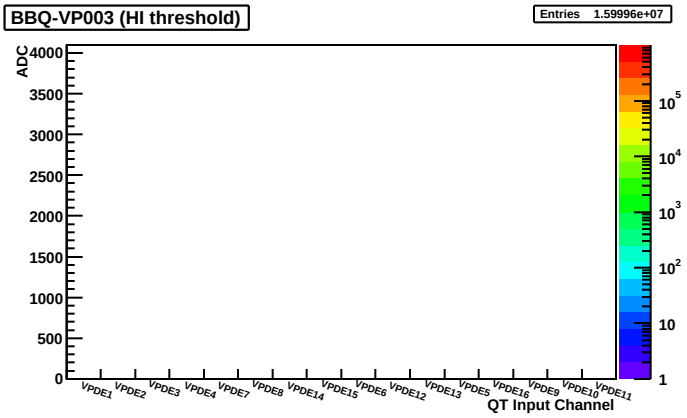

BBQ-ZD001
Entries 1.59996e+07
TAC
QT Input Channel

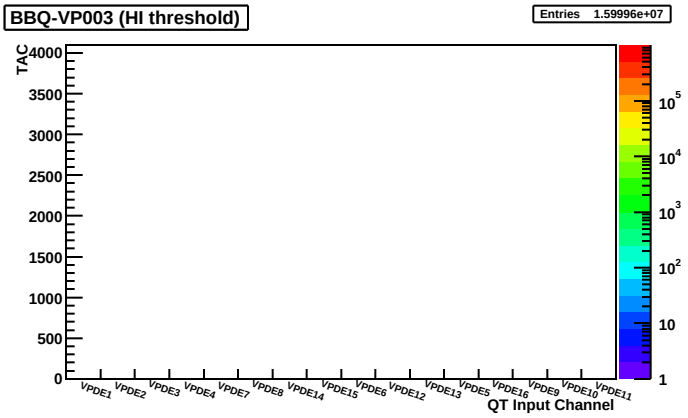

BBQ-VP001 (LO threshold)
Entries 1.59996e+07
ADC
QT Input Channel

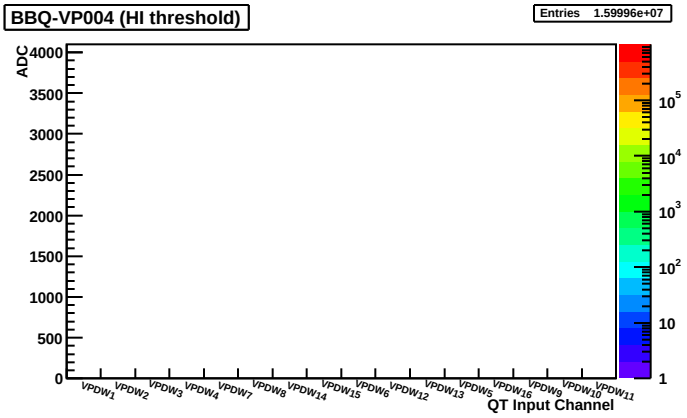

BBQ-VP001 (LO threshold)
Entries 1.59996e+07
TAC
QT Input Channel

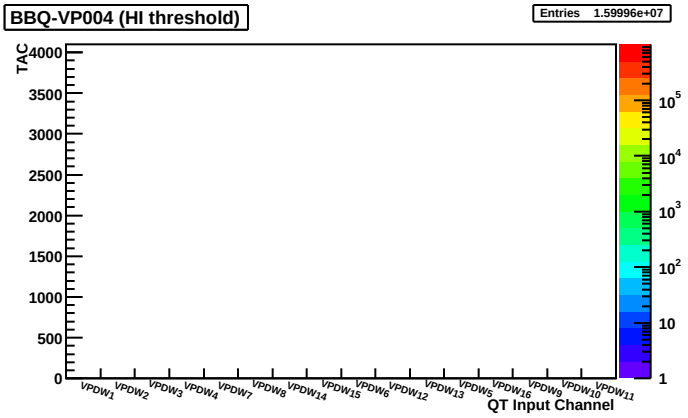

BBQ-VP002 (LO threshold)
Entries 1.59996e+07
ADC
QT Input Channel

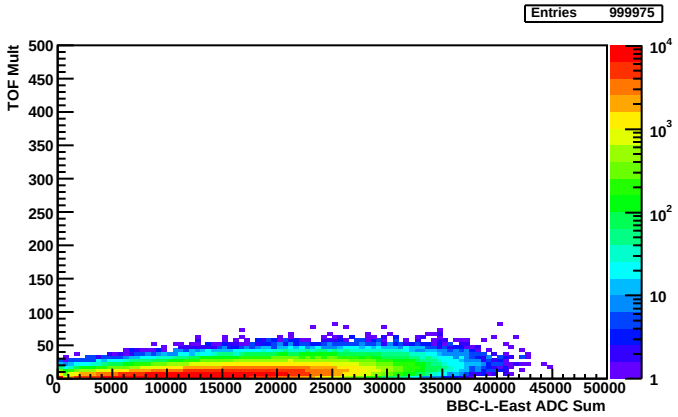

BBQ-VP002 (LO threshold)
Entries 1.59996e+07
TAC
QT Input Channel

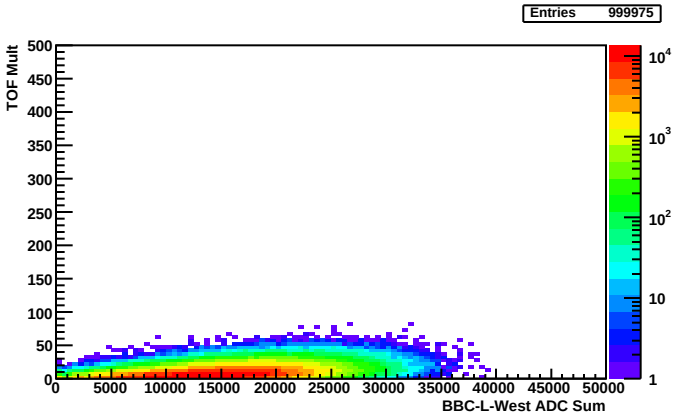

BBQ-VP003 (HI threshold)
Entries 1.59996e+07
ADC
QT Input Channel

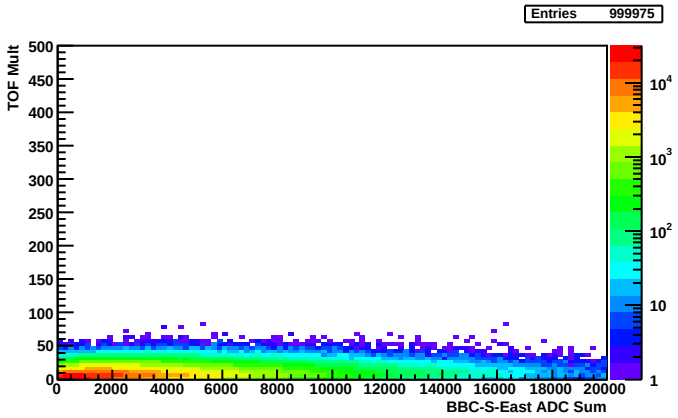

BBQ-VP003 (HI threshold)
Entries 1.59996e+07
TAC
QT Input Channel

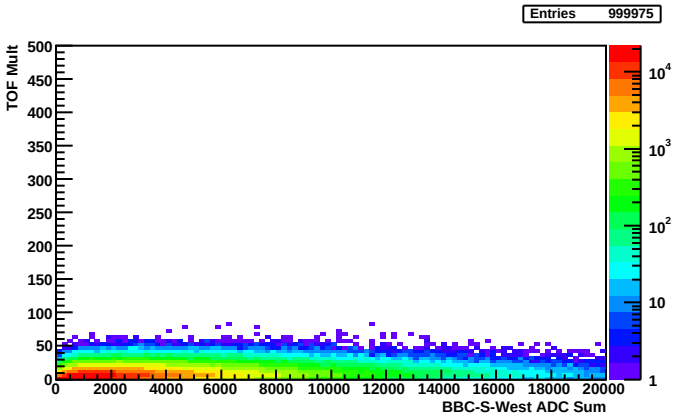

BBQ-VP004 (HI threshold)
Entries 1.59996e+07
ADC
QT Input Channel

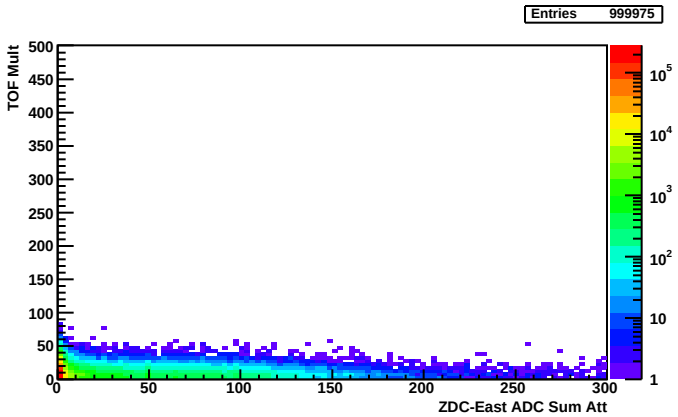

BBQ-VP004 (HI threshold)
Entries 1.59996e+07
TAC
QT Input Channel

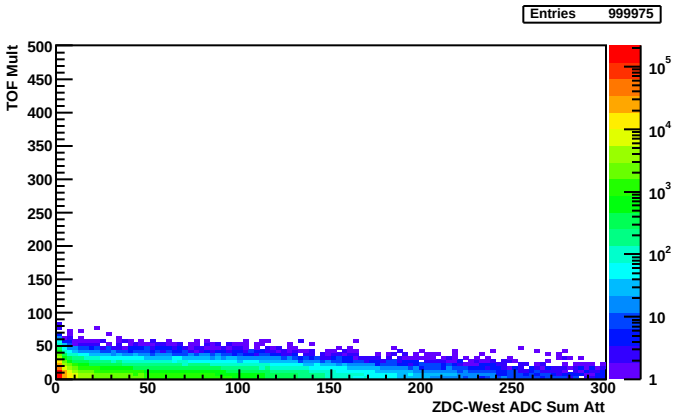

Entries 999975
TOF Mult
BBC-L-East ADC Sum

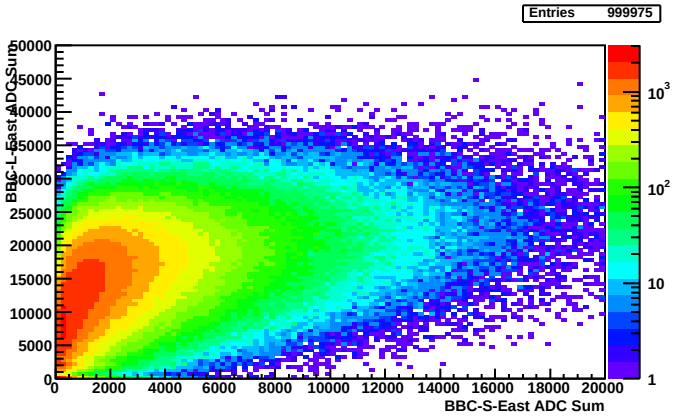

Entries 999975
TOF Mult
BBC-L-West ADC Sum

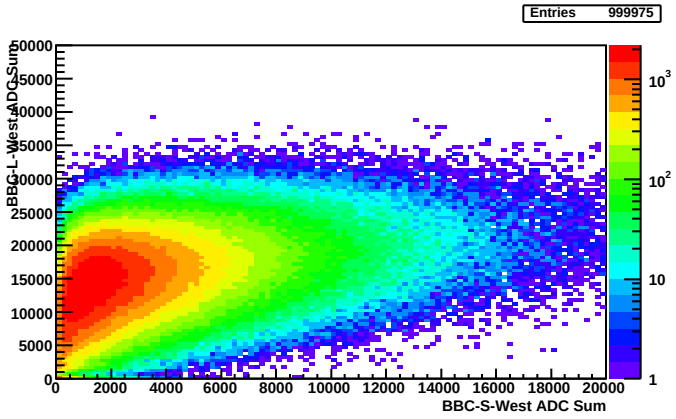

Entries 999975
TOF Mult
BBC-S-East ADC Sum

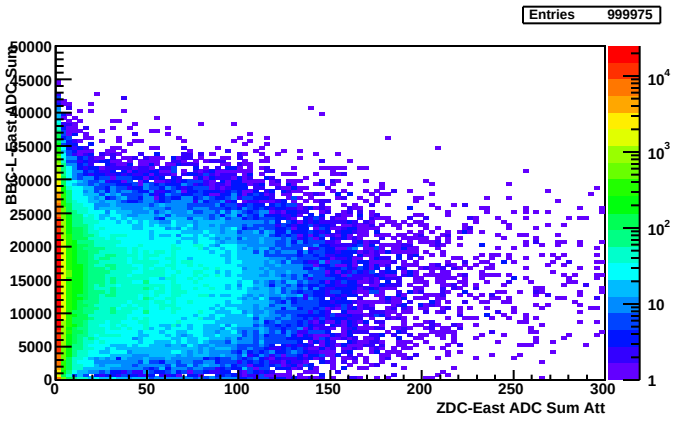

Entries 999975
TOF Mult
BBC-S-West ADC Sum

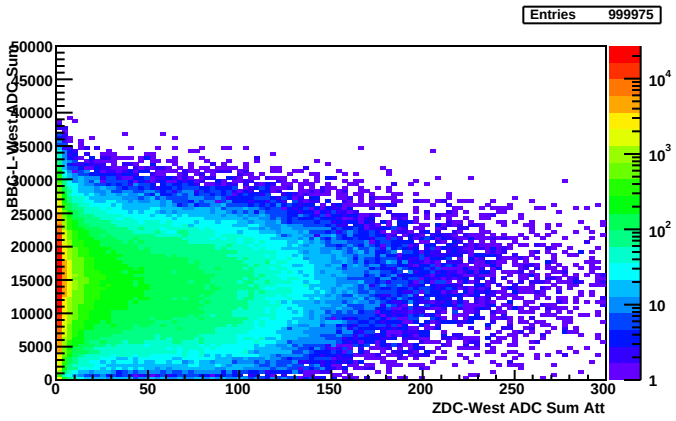

Entries 999975
TOF Mult
ZDC-East ADC Sum Att

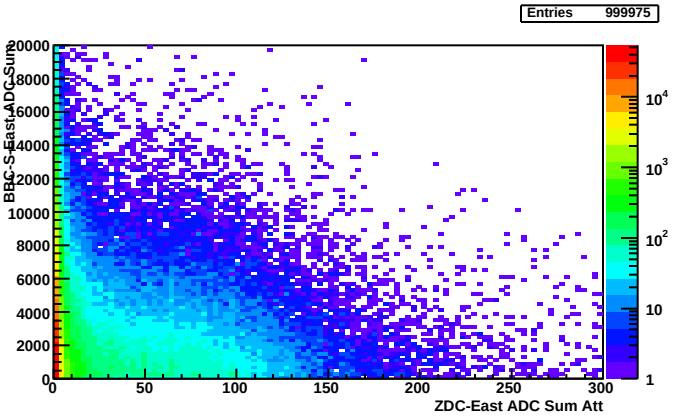

Entries 999975
TOF Mult
ZDC-West ADC Sum Att

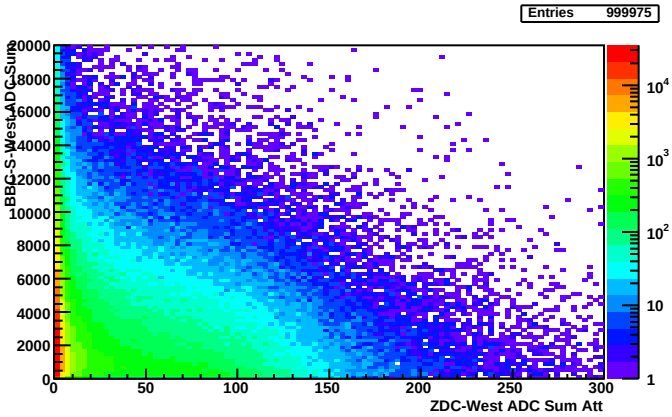

Entries 999975
BBC-L-East ADC Sum
BBC-S-East ADC Sum

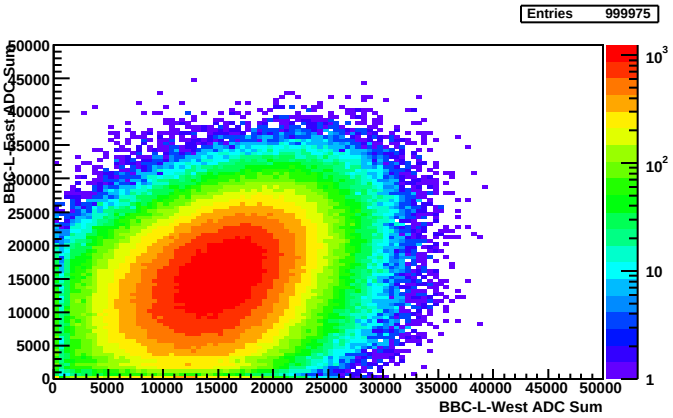

Entries 999975
BBC-L-West ADC Sum
BBC-S-West ADC Sum

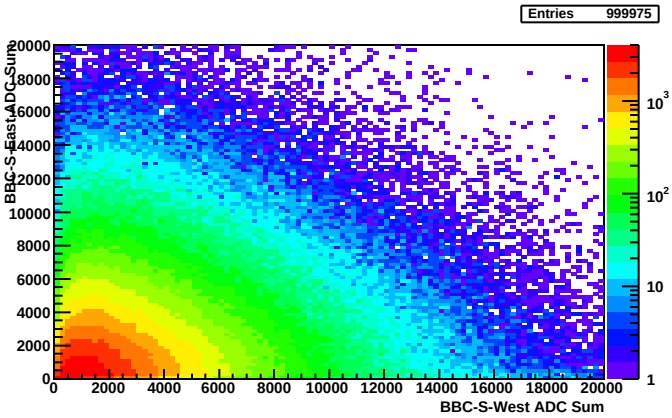

Entries 999975
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

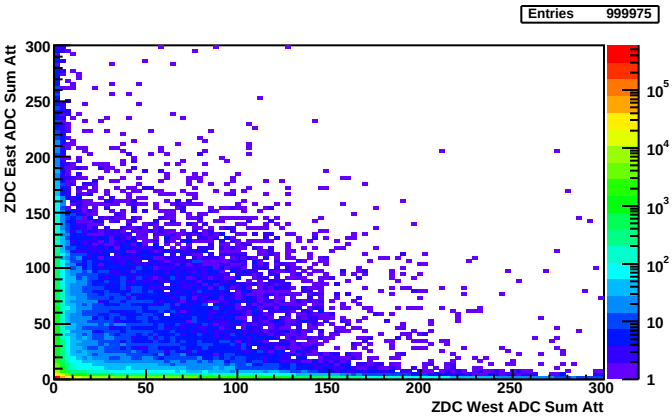

Entries 999975
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

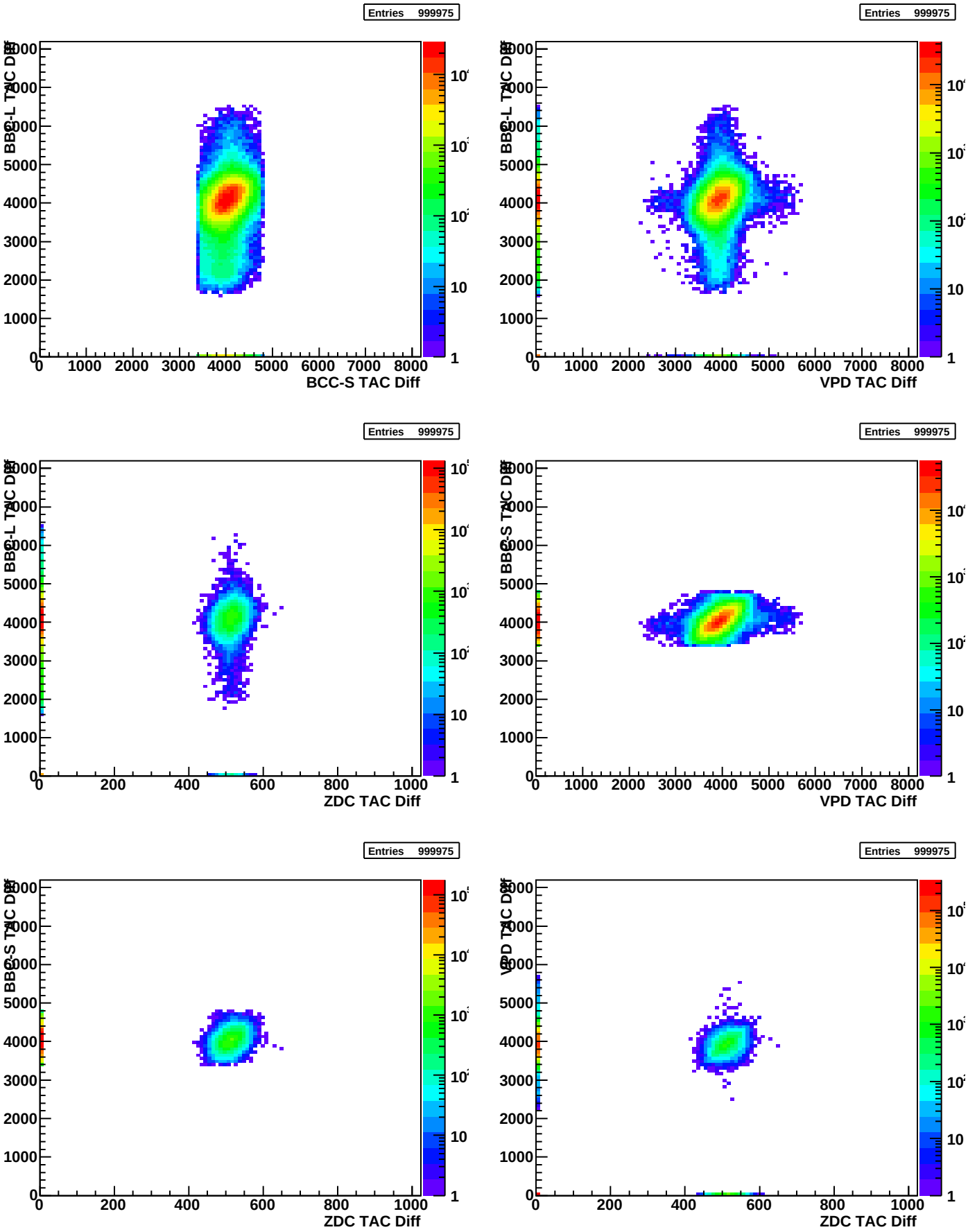

Entries 999975
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

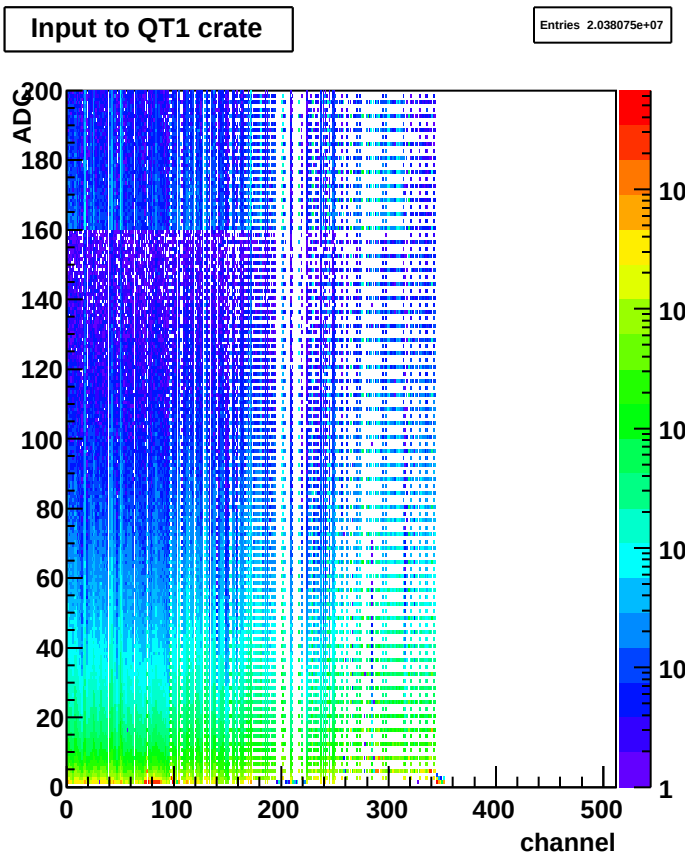

Entries 999975
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

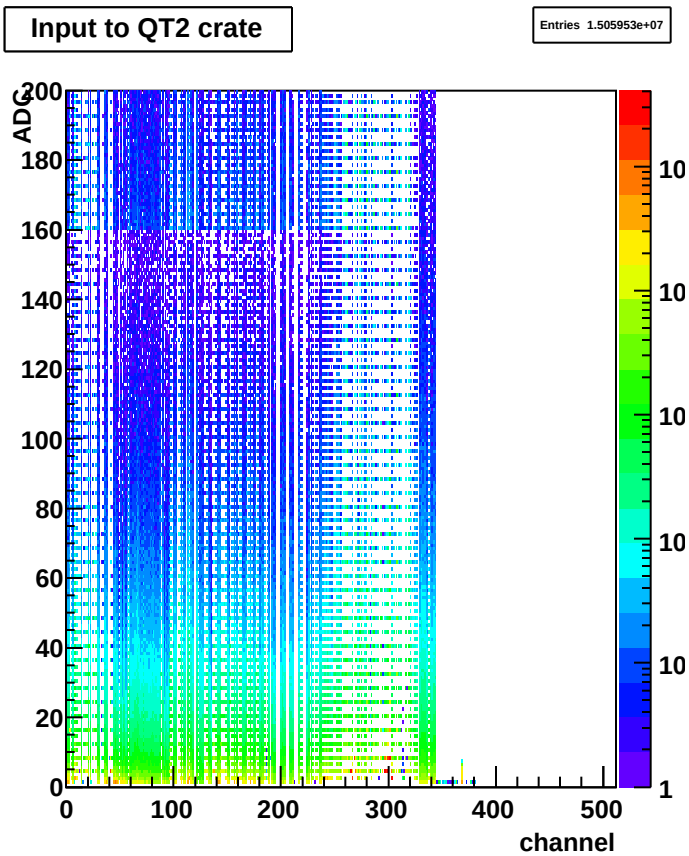

Entries 999975
BBC-L-East ADC Sum
BBC-L-West ADC Sum

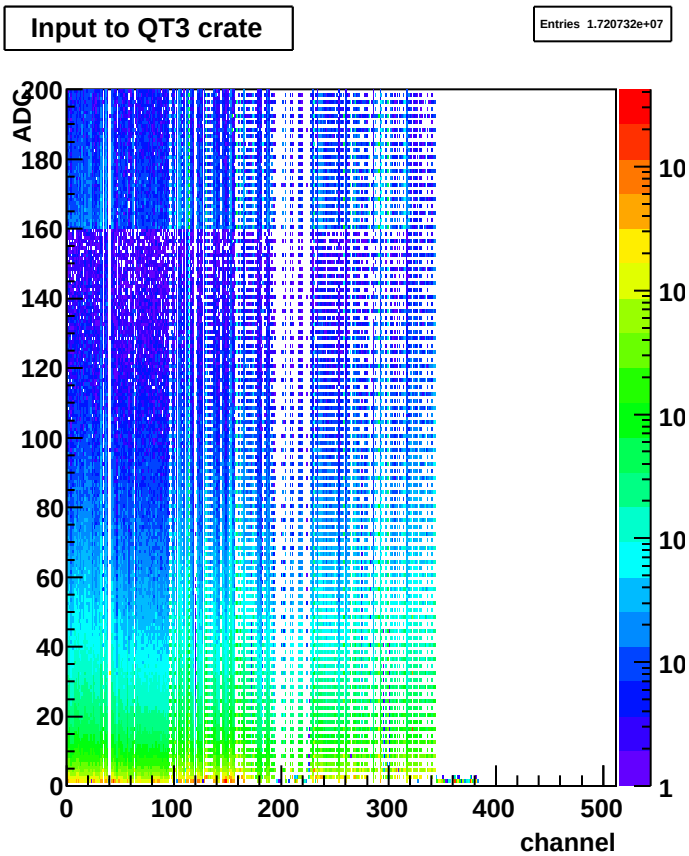

Entries 999975
BBC-S-East ADC Sum
BBC-S-West ADC Sum

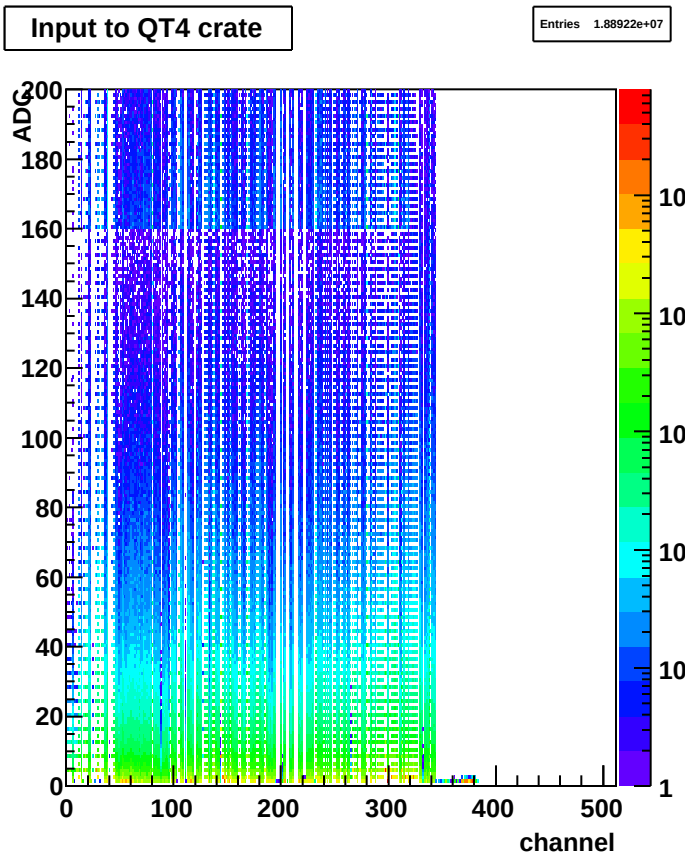

Entries 999975
ZDC East ADC Sum Att
ZDC West ADC Sum Att

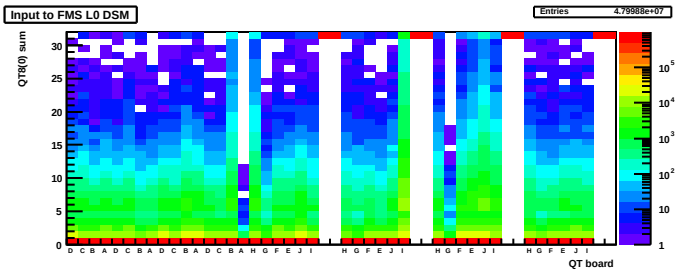

Entries 999975
BBC-L TAC Diff
BCC-S TAC Diff
Entries 999975
BBC-L TAC Diff
VPD TAC Diff
Entries 999975
BBC-L TAC Diff
ZDC TAC Diff
Entries 999975
BBC-S TAC Diff
VPD TAC Diff
Entries 999975
BBC-S TAC Diff
ZDC TAC Diff
Entries 999975
VPD TAC Diff
ZDC TAC Diff

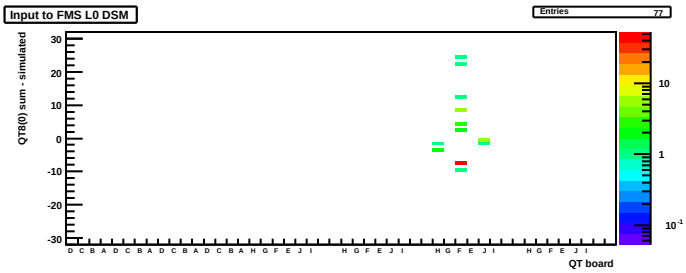

Input to QT1 crate
Entries 2.038075e+07
ADC
channel

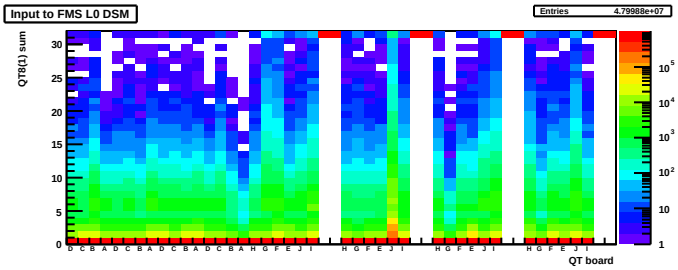

Input to QT2 crate
Entries 1.505953e+07
ADC
channel

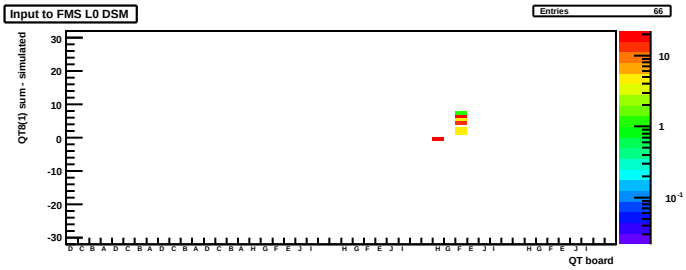

Input to QT3 crate
Entries 1.720732e+07
ADC
channel

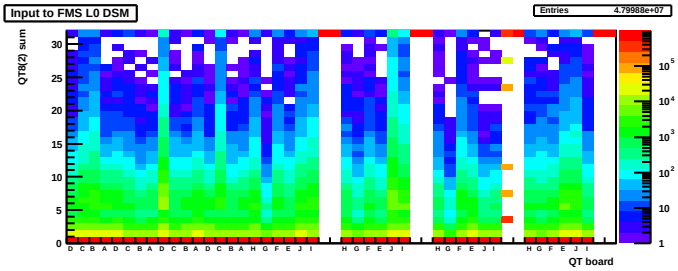

Input to QT4 crate
Entries 1.88922e+07
ADC
channel

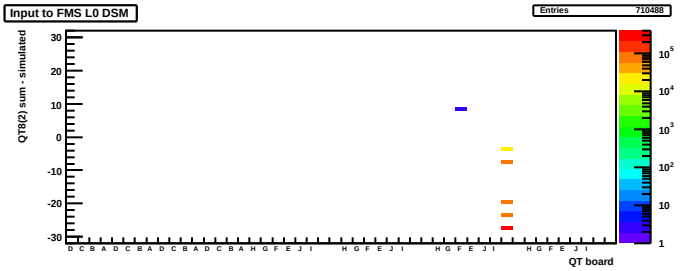

Input to FMS L0 DSM
Entries 4.79988e+07
QT8(0) sum
QT board

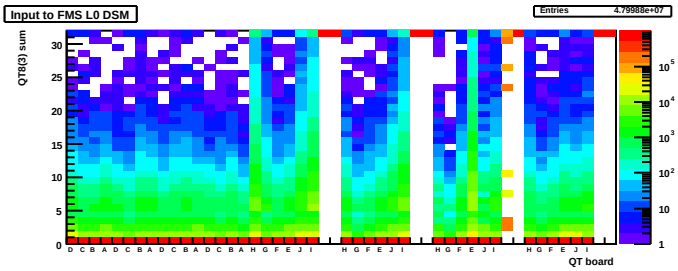

Input to FMS L0 DSM
Entries 77
QT8(0) sum - simulated
QT board

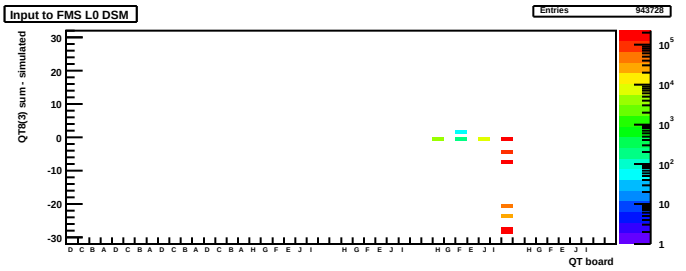

Input to FMS L0 DSM
Entries 4.79988e+07
QT8(1) sum
QT board

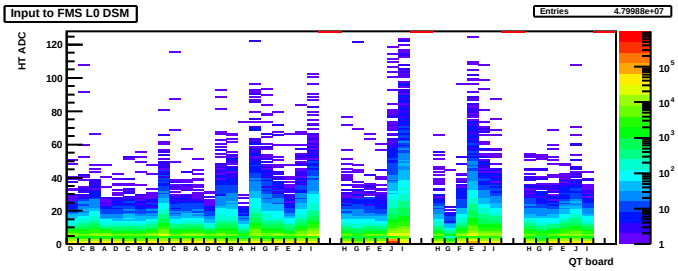

Input to FMS L0 DSM
Entries 66
QT8(1) sum - simulated
QT board

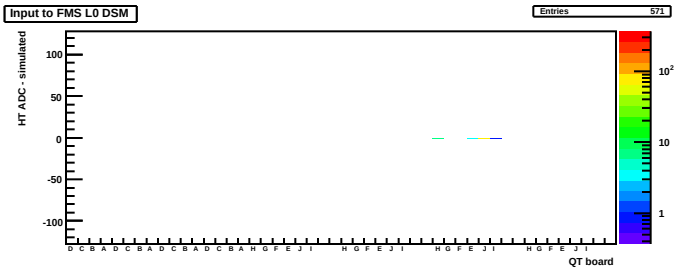

Input to FMS L0 DSM
Entries 4.79988e+07
QT8(2) sum
QT board

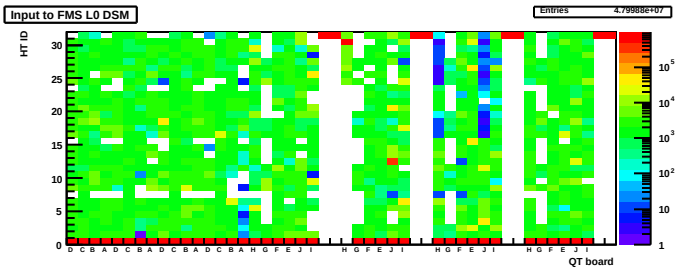

Input to FMS L0 DSM
Entries 710488
QT8(2) sum - simulated
QT board

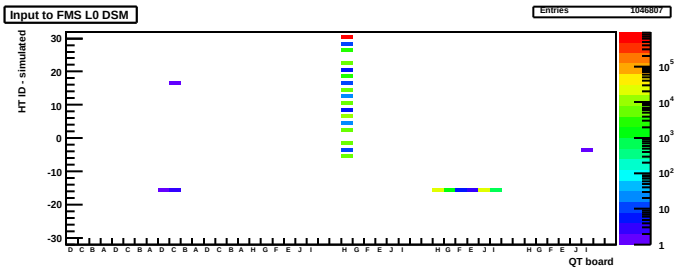

Input to FMS L0 DSM
Entries 4.79988e+07
QT8(3) sum
QT board

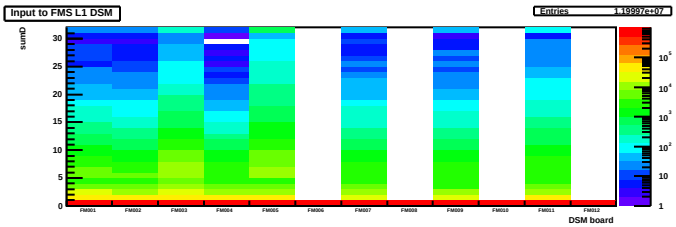

Input to FMS L0 DSM
Entries 943728
QT8(3) sum - simulated
QT board

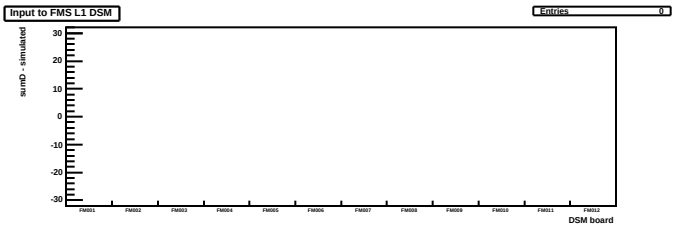

Input to FMS L0 DSM
Entries 4.79988e+07
HT ADC
QT board

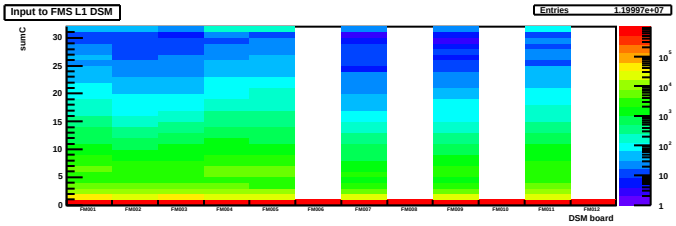

Input to FMS L0 DSM
Entries 571
HT ADC - simulated
QT board

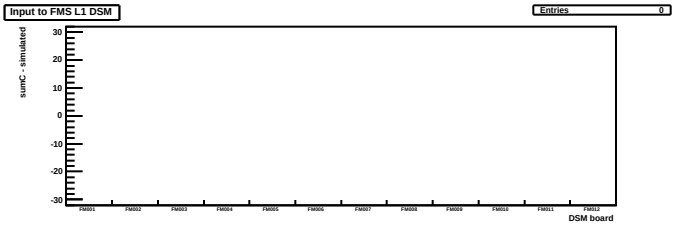

Input to FMS L0 DSM
Entries 4.79988e+07
HT ID
QT board

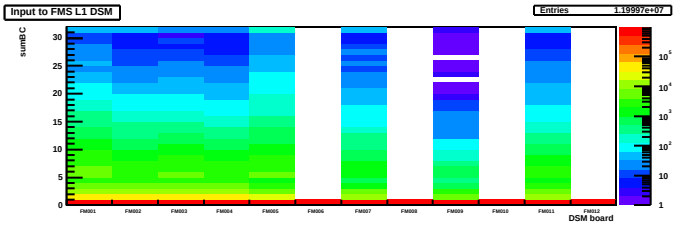

Input to FMS L0 DSM
Entries 1048807
HT ID - simulated
QT board

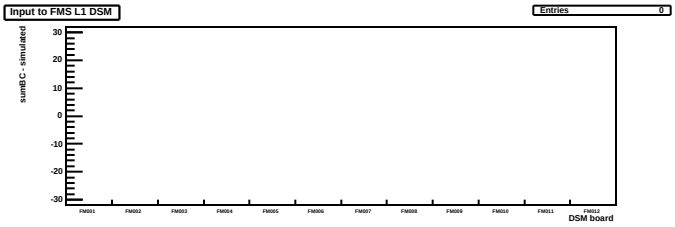

Input to FMS L1 DSM
Entries 1.19997e+07
sumD
DSM board

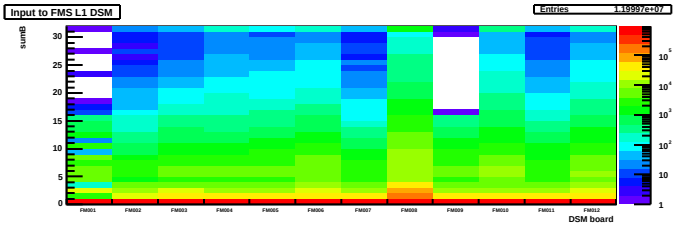

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

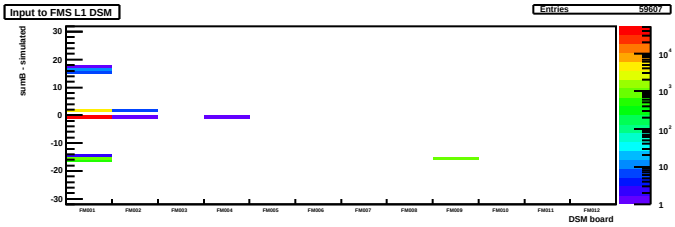

Input to FMS L1 DSM
Entries 1.19997e+07
sumC
DSM board

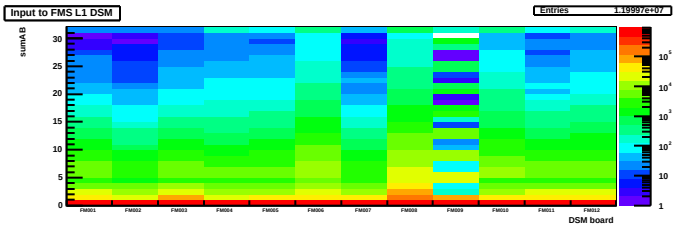

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

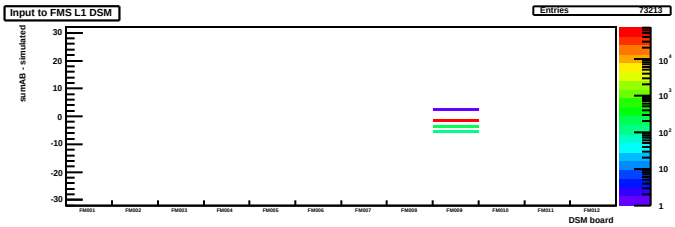

Input to FMS L1 DSM
Entries 1.19997e+07
sumBC
DSM board

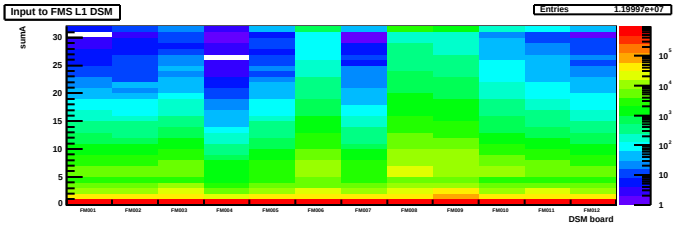

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

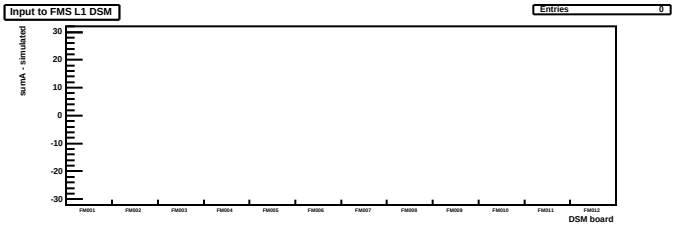

Input to FMS L1 DSM
Entries 1.19997e+07
sumB
DSM board

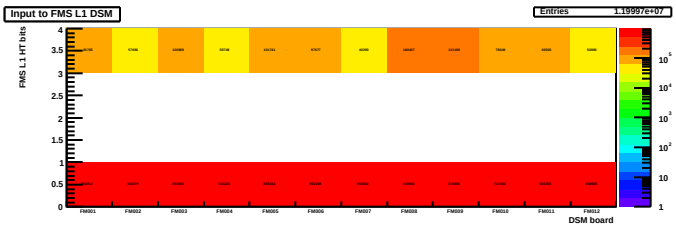

Input to FMS L1 DSM
Entries 59607
sumB - simulated
DSM board

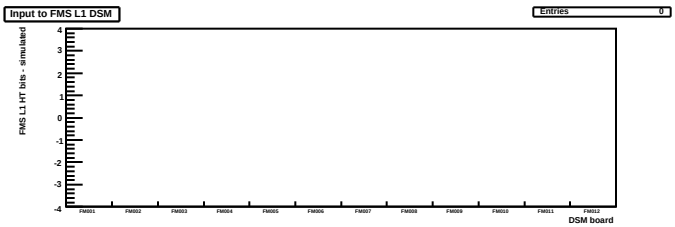

Input to FMS L1 DSM
Entries 1.19997e+07
sumAB
DSM board

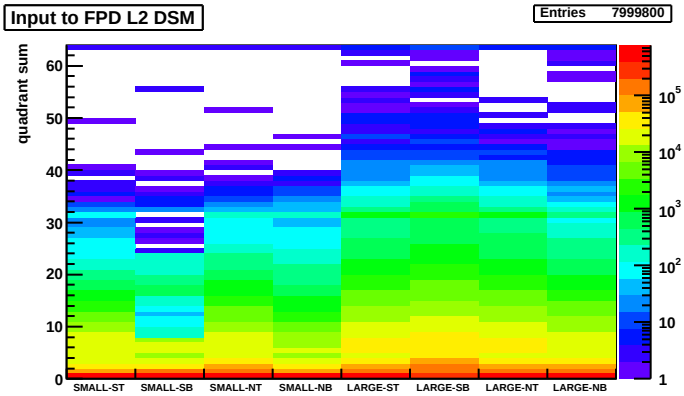

Input to FMS L1 DSM
Entries 73213
sumAB - simulated
DSM board

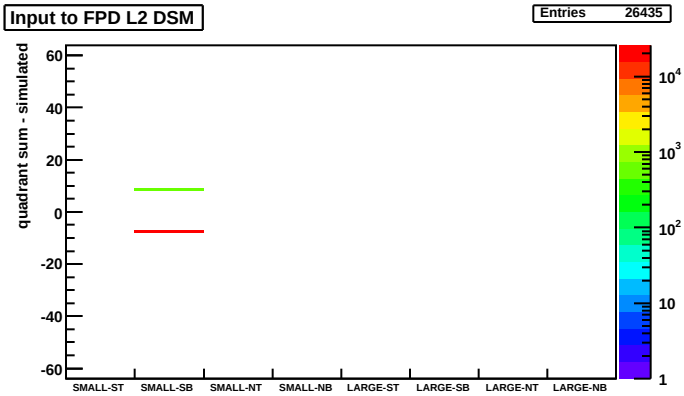

Input to FMS L1 DSM
Entries 1.19997e+07
sumA
DSM board

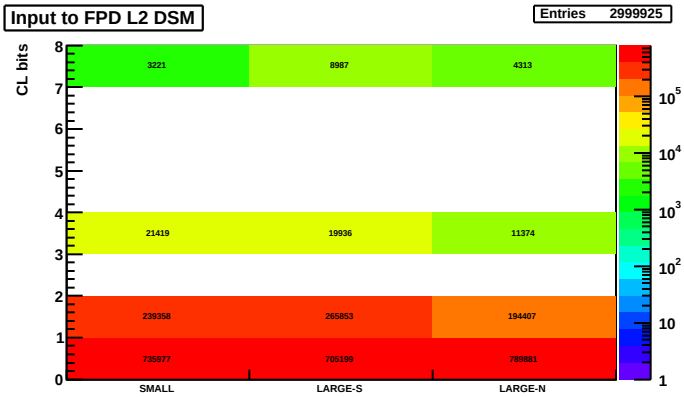

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

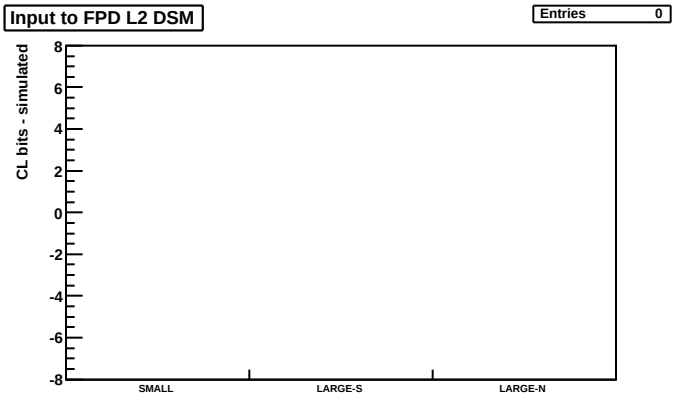

Input to FMS L1 DSM
Entries 1.19997e+07
FMS L1 HT bits
DSM board

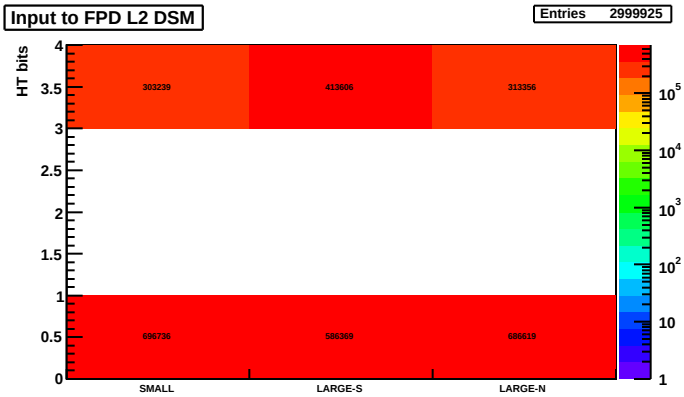

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

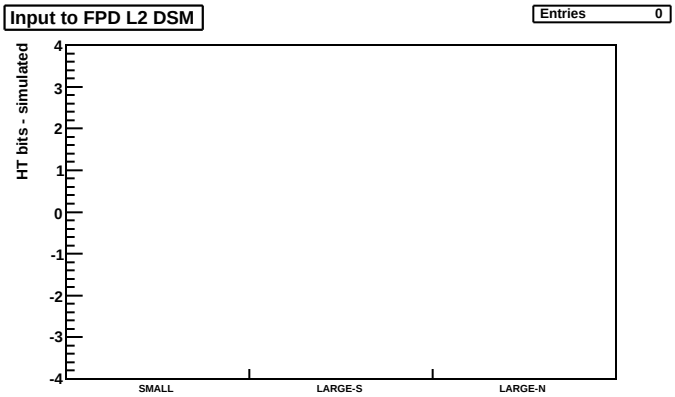

Input to FPD L2 DSM
Entries 7999800
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

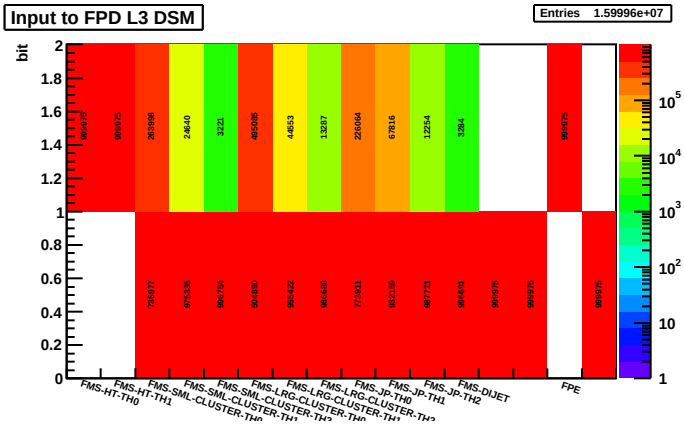

Input to FPD L2 DSM
Entries 26435
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

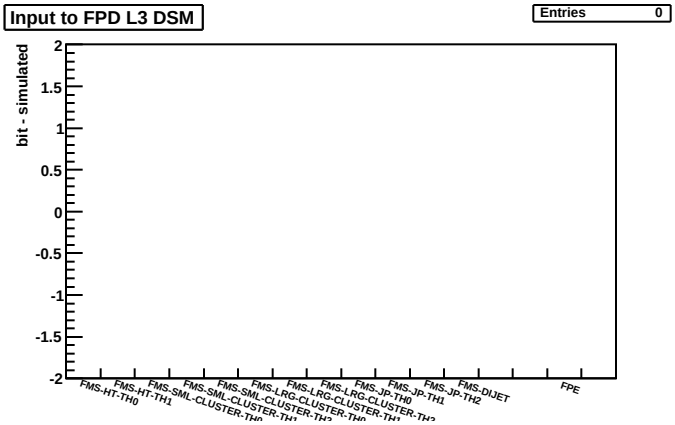

Input to FPD L2 DSM
Entries 2999925
CL bits
3221
8987
4313
21419
19936
11374
239358
265853
194407
735977
705199
789881
SMALL
LARGE-S
LARGE-N

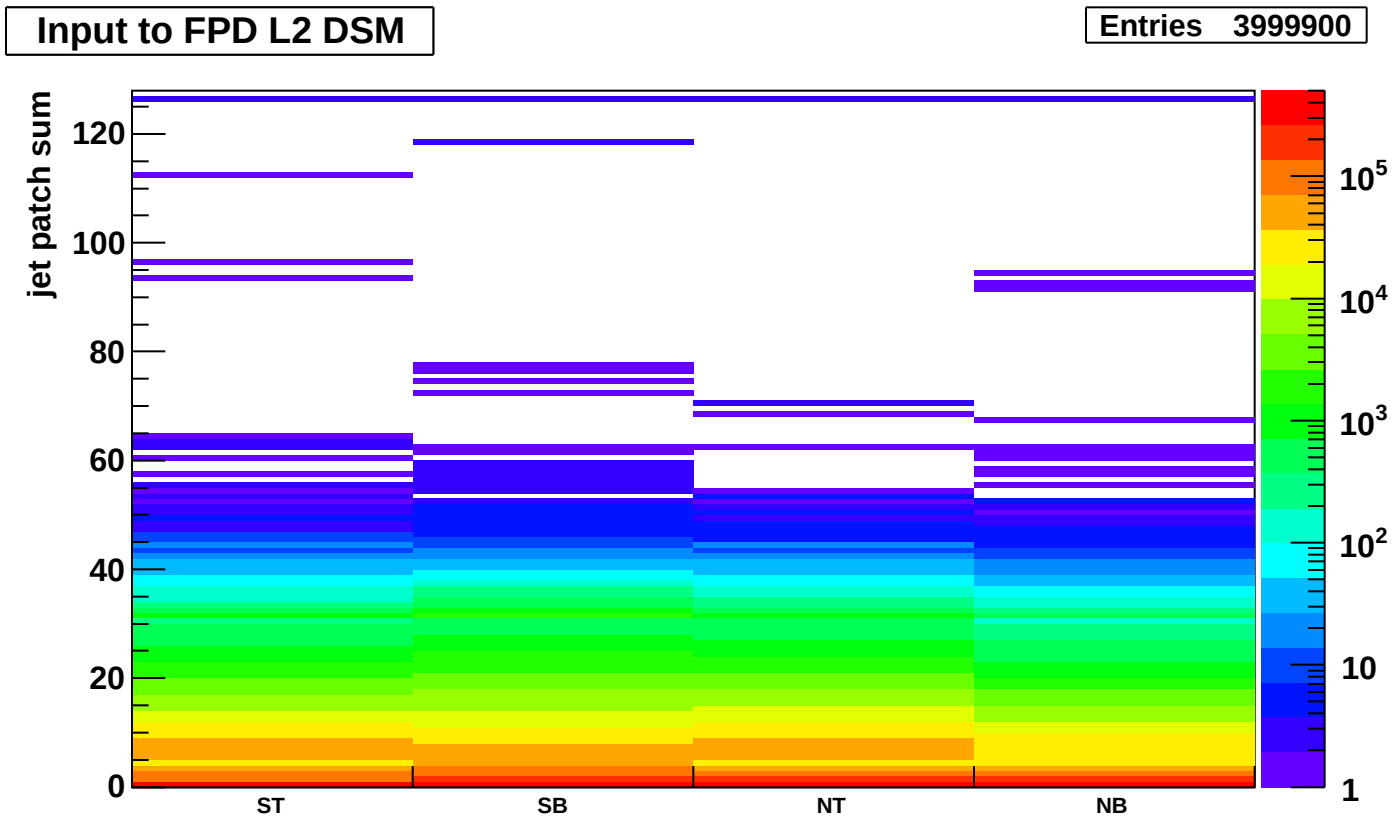

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

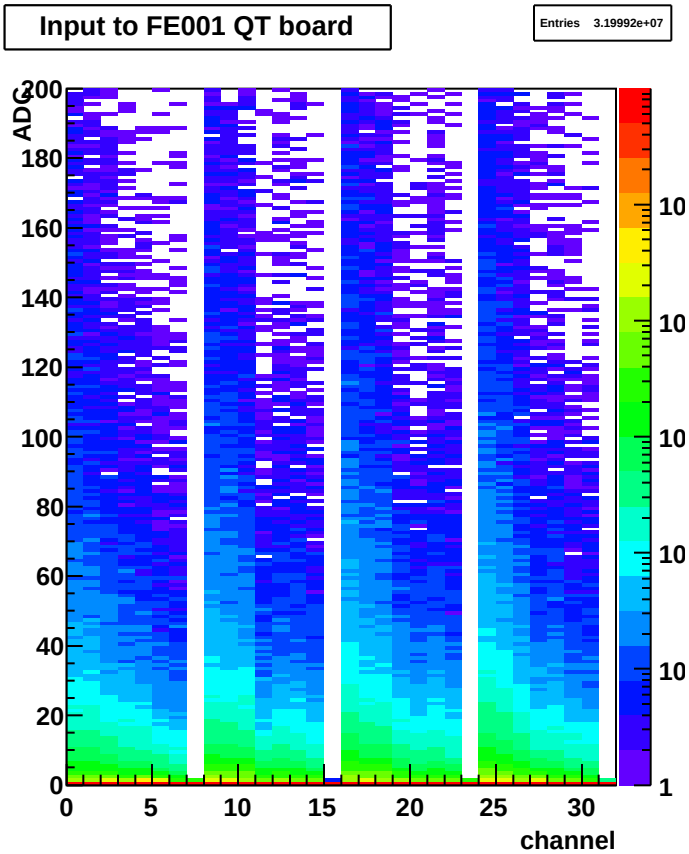

Input to FPD L2 DSM
Entries 2999925
HT bits
303239
413606
313356
696736
586369
686619
SMALL
LARGE-S
LARGE-N

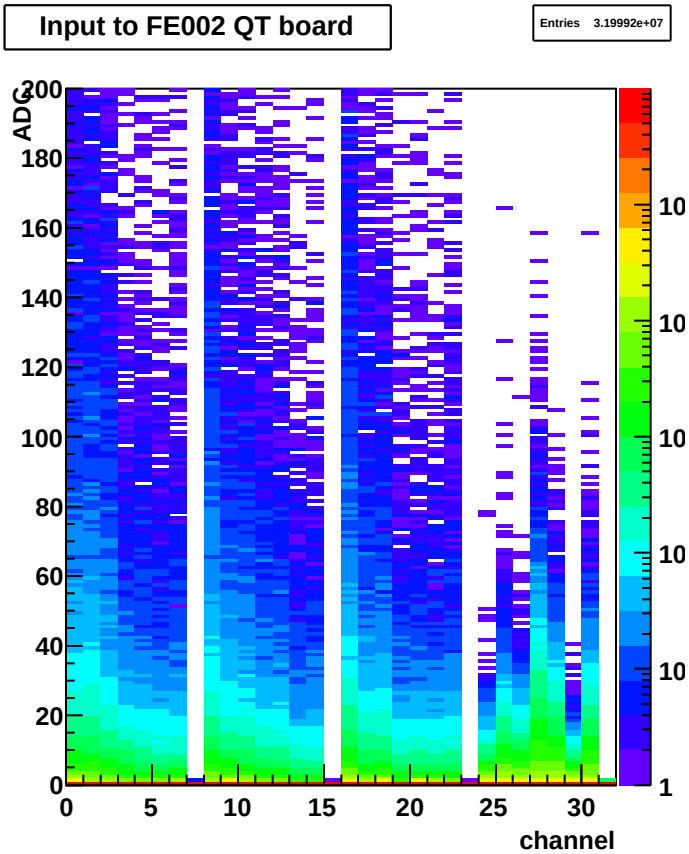

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

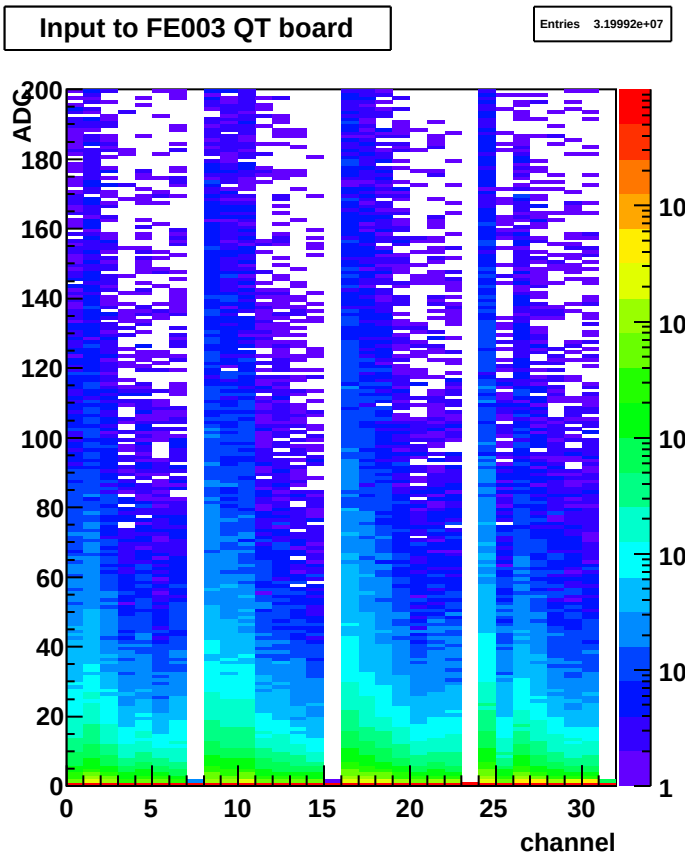

Input to FPD L3 DSM
Entries 1.59996e+07
bit
999975
999975
263998
24640
3221
495085
44653
13287
226664
67816
12254
3284
999975
735977
975335
996754
504880
955422
986688
773911
922139
987721
986601
999975
999975
999975
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

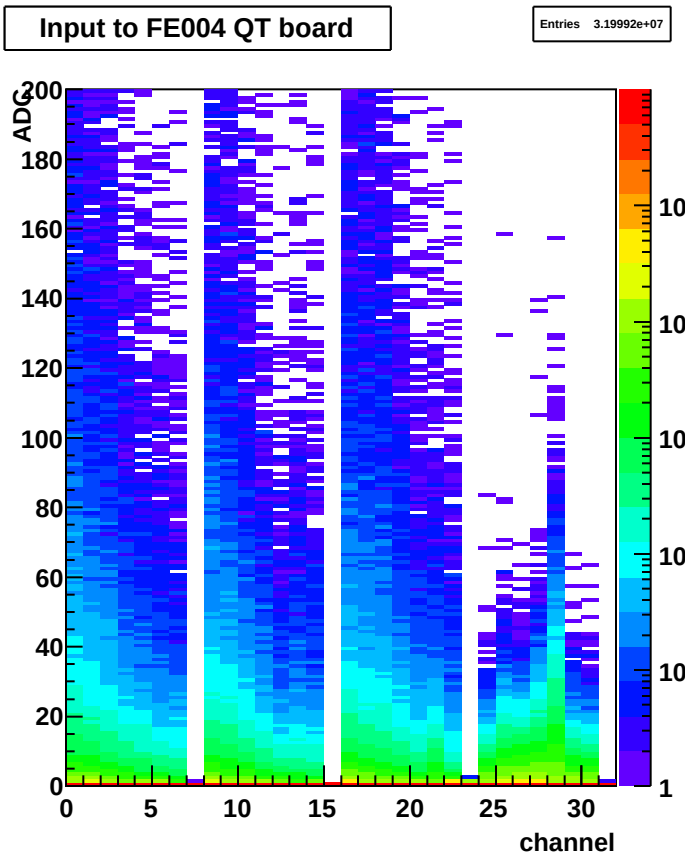

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

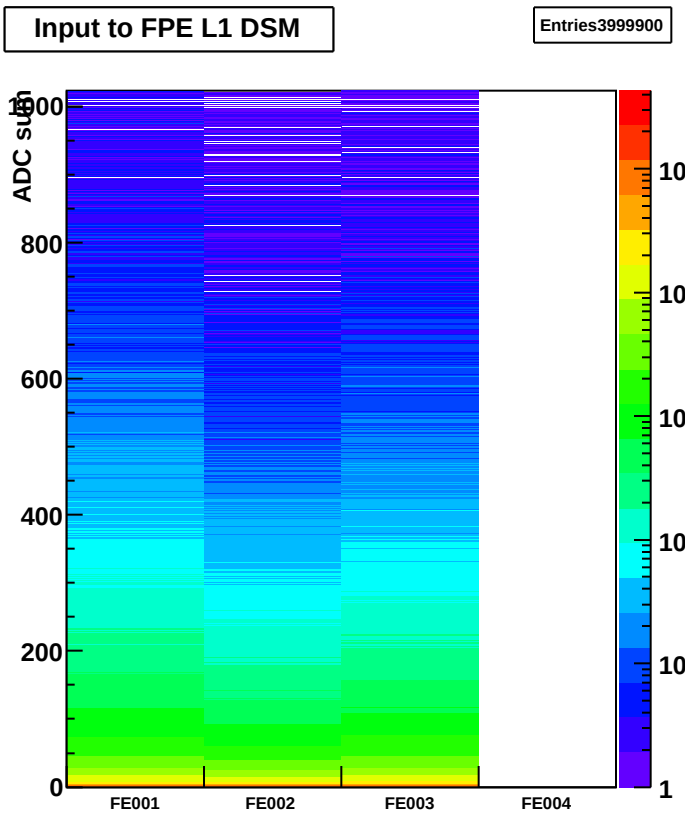

Input to FPD L2 DSM
Entries 3999900
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

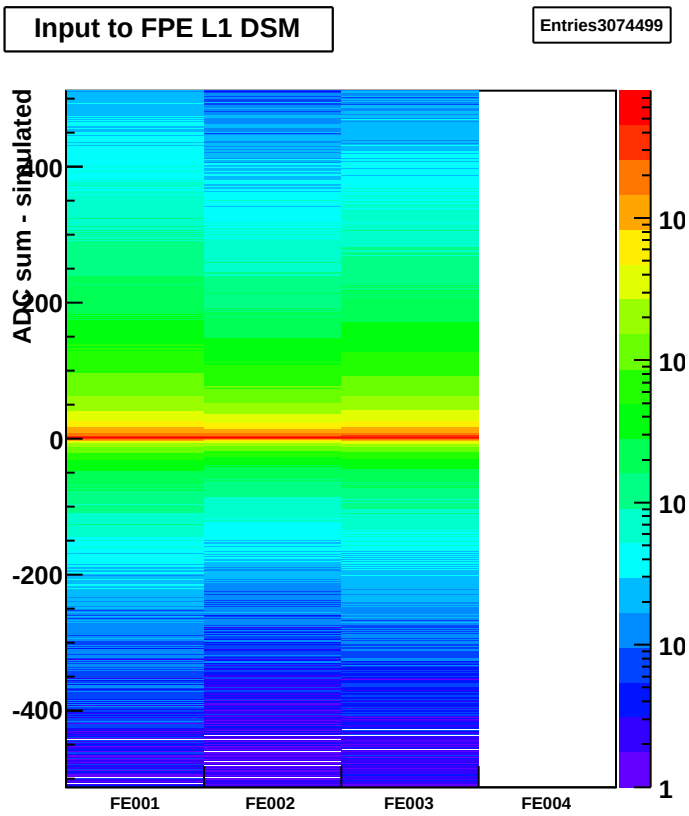

Input to FE001 QT board
Entries 3.19992e+07
ADC
channel

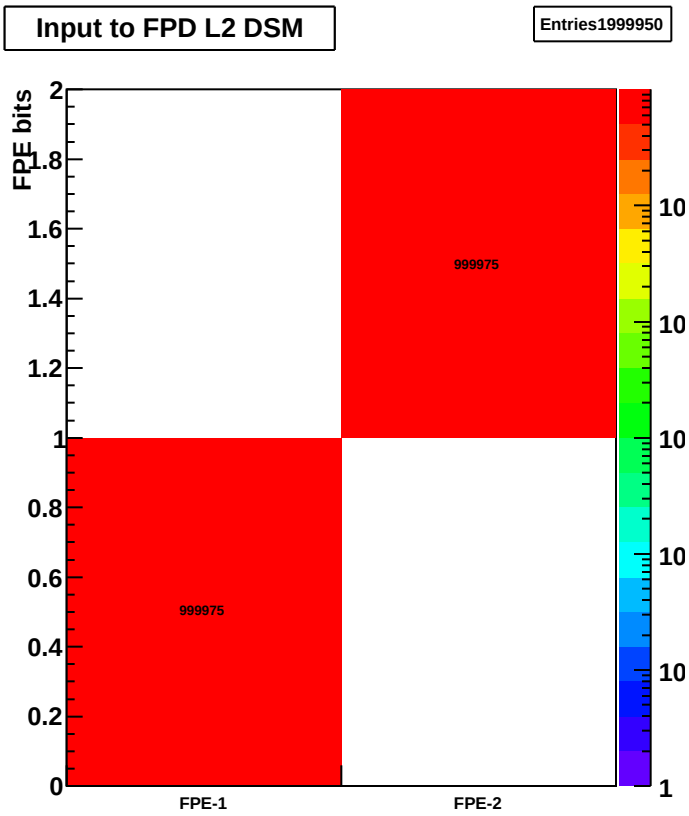

Input to FE002 QT board
Entries 3.19992e+07
ADC
channel

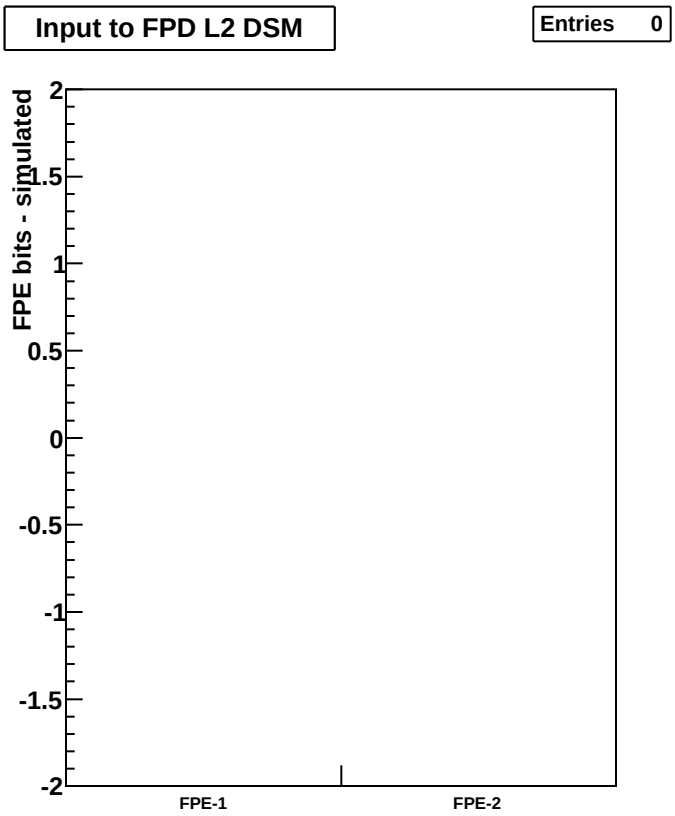

Input to FE003 QT board
Entries 3.19992e+07
ADC
channel


Input to FE004 QT board
Entries 3.19992e+07
ADC
channel


Input to FPE L1 DSM
Entries3999900
ADC sum
1000
800
600
400
200
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


Input to FPE L1 DSM
Entries3074499
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
10
1


Input to FPD L2 DSM
Entries1999950
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
999975
999975
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