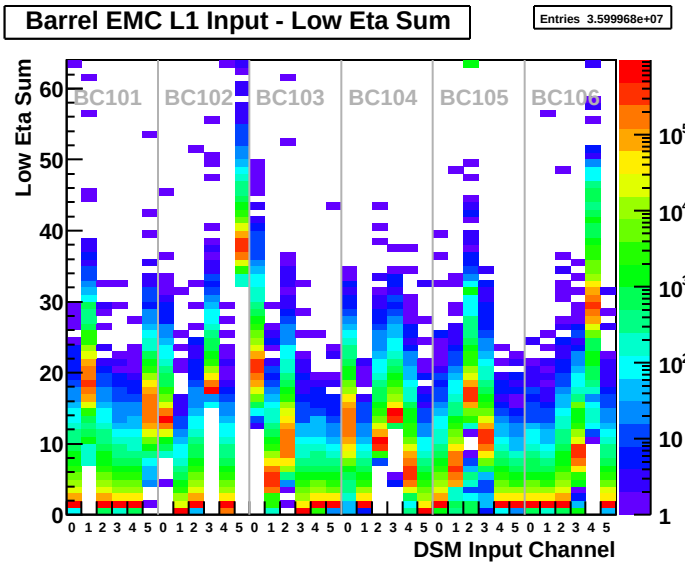
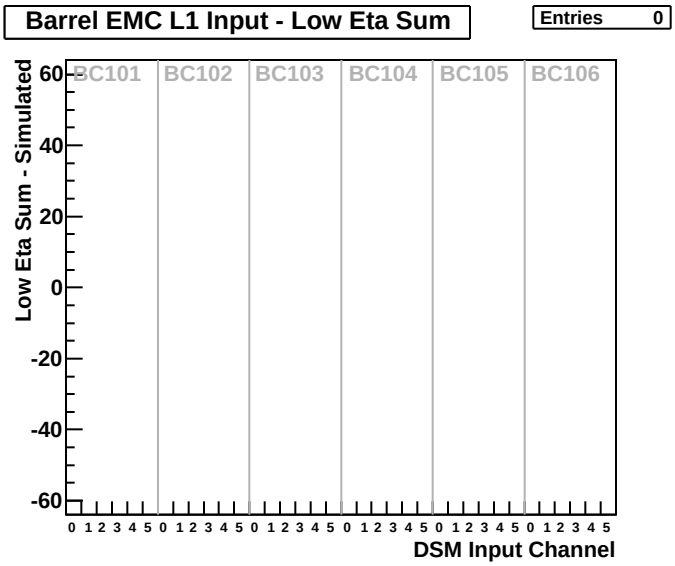
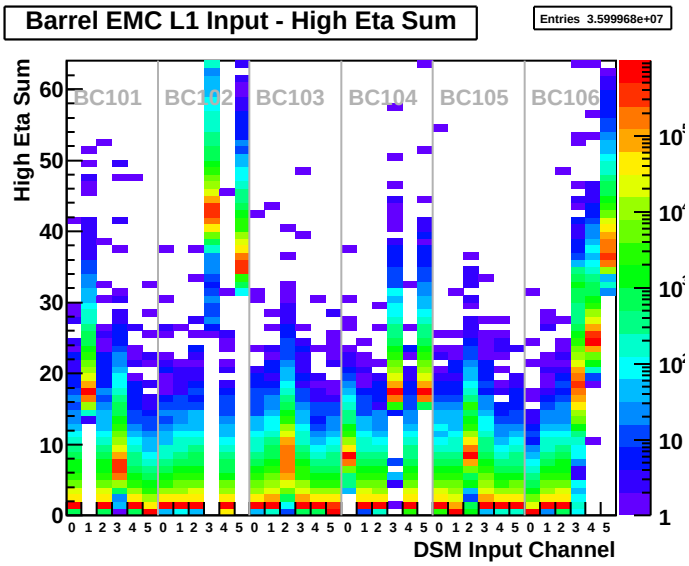
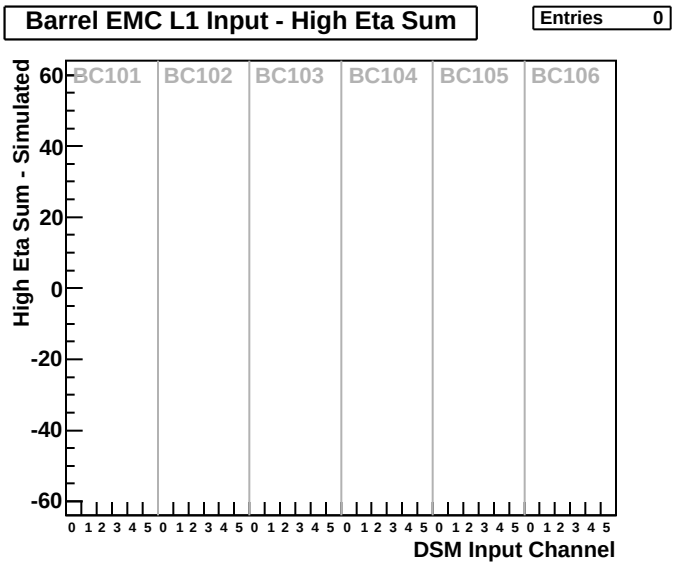
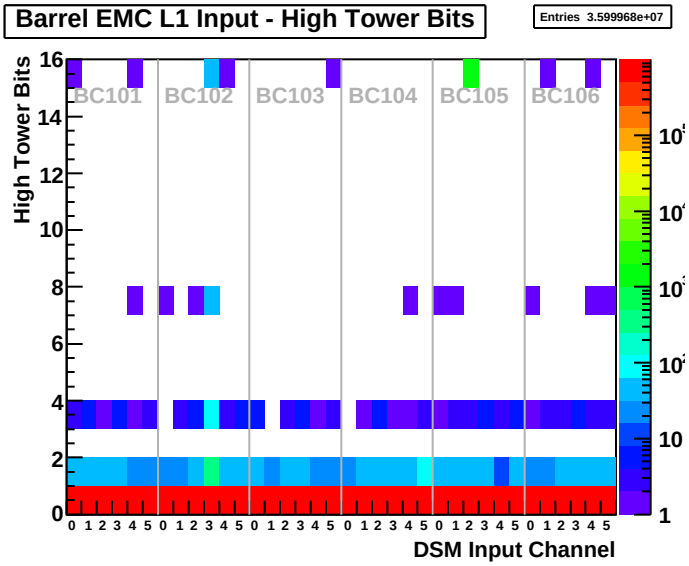
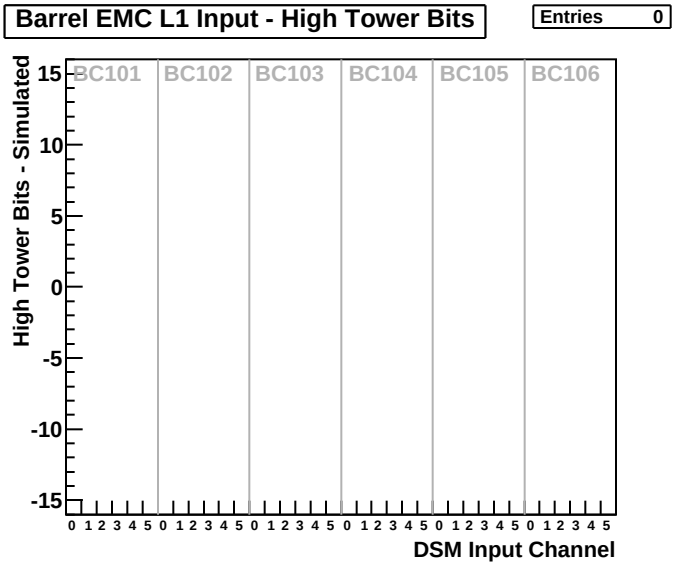

Barrel EMC L1 Input - Low Eta Sum
Entries 3.599968e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

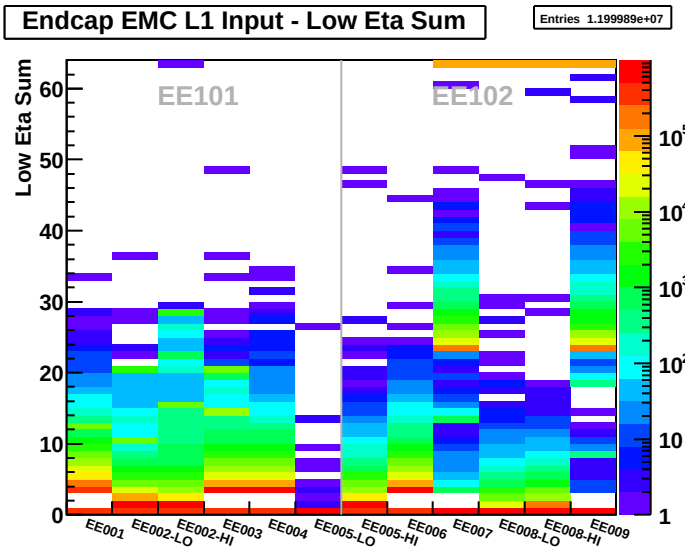

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

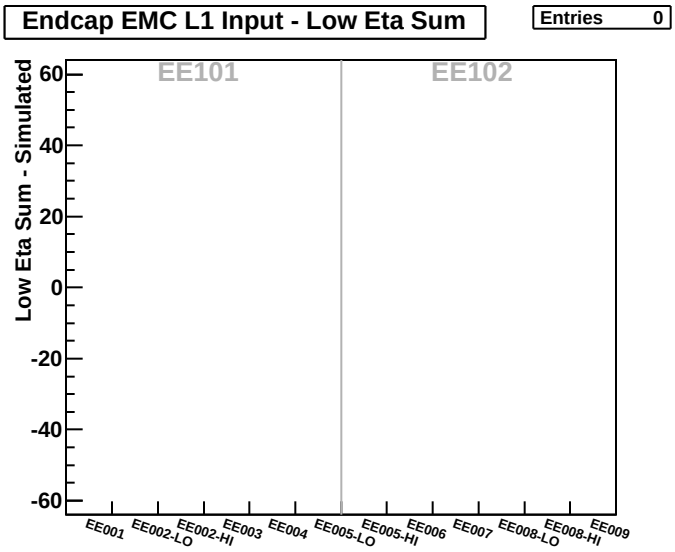

Barrel EMC L1 Input - High Eta Sum
Entries 3.599968e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

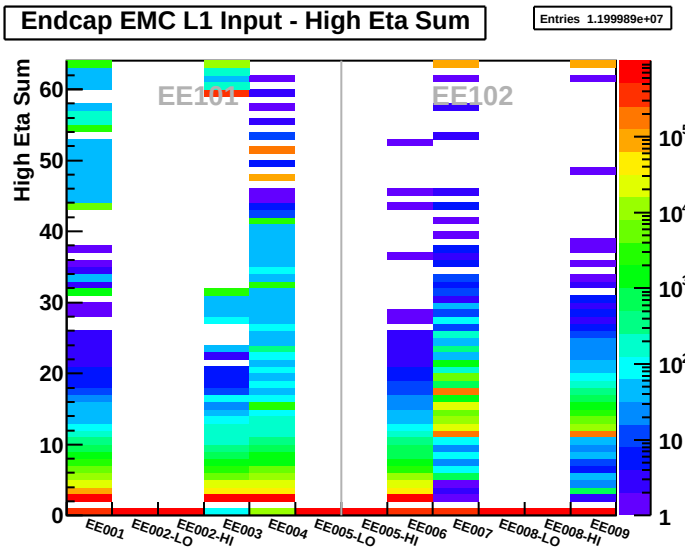

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

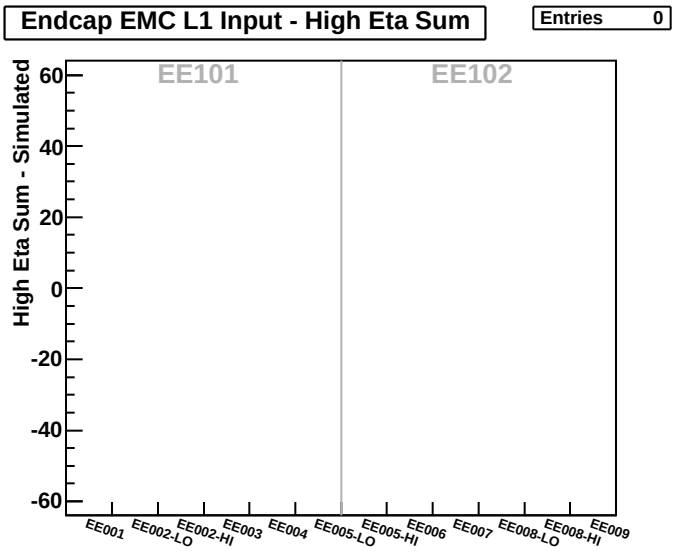

Barrel EMC L1 Input - High Tower Bits
Entries 3.599968e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

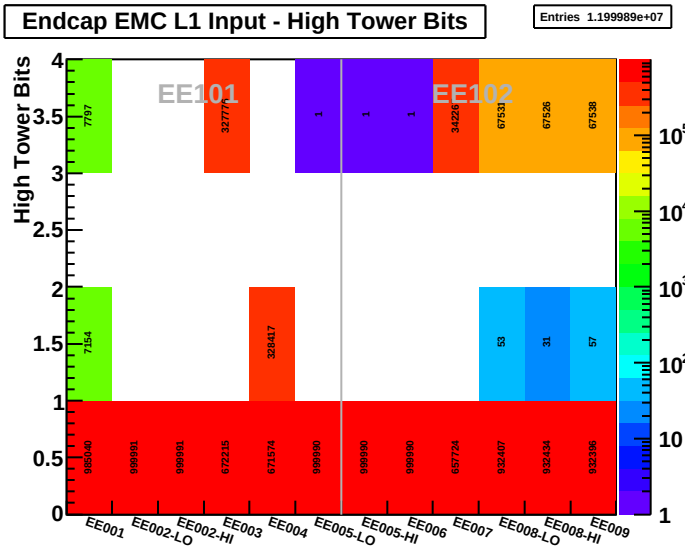

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

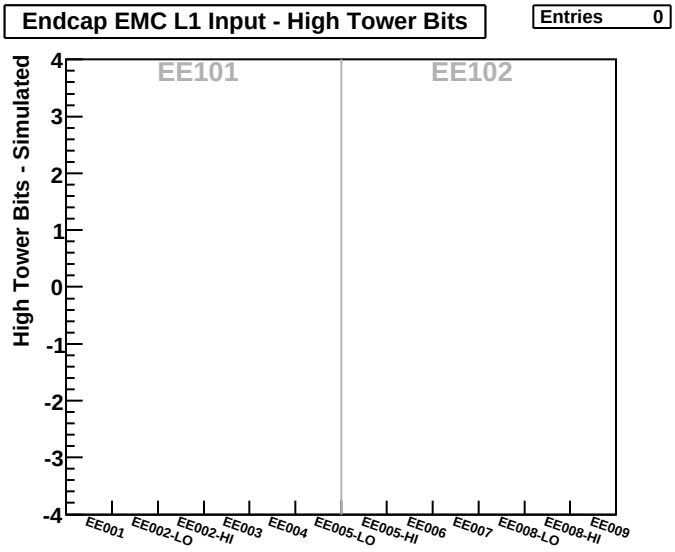

Endcap EMC L1 Input - Low Eta Sum
Entries 1.199989e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

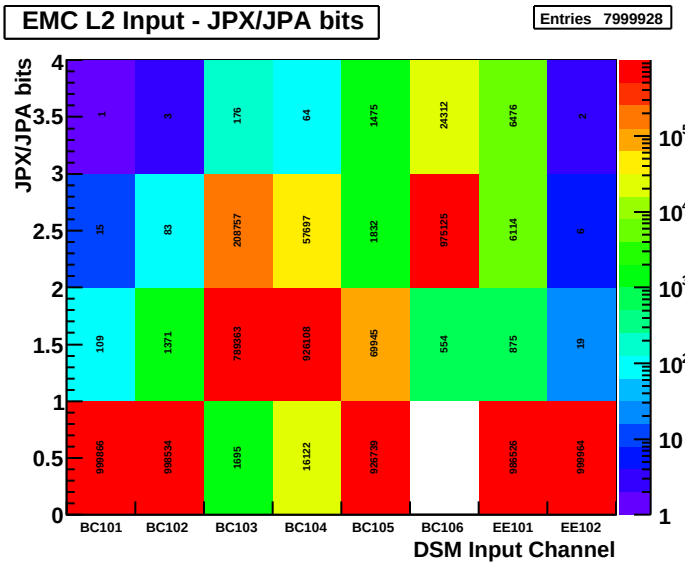

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

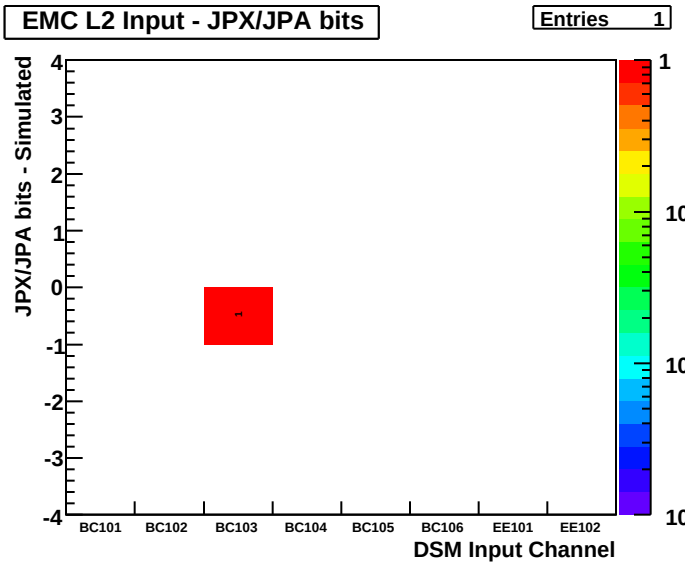

Endcap EMC L1 Input - High Eta Sum
Entries 1.199989e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

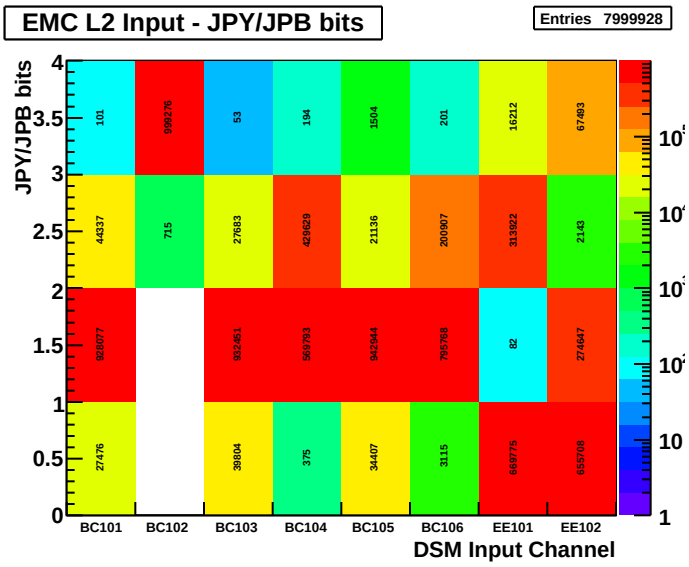

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

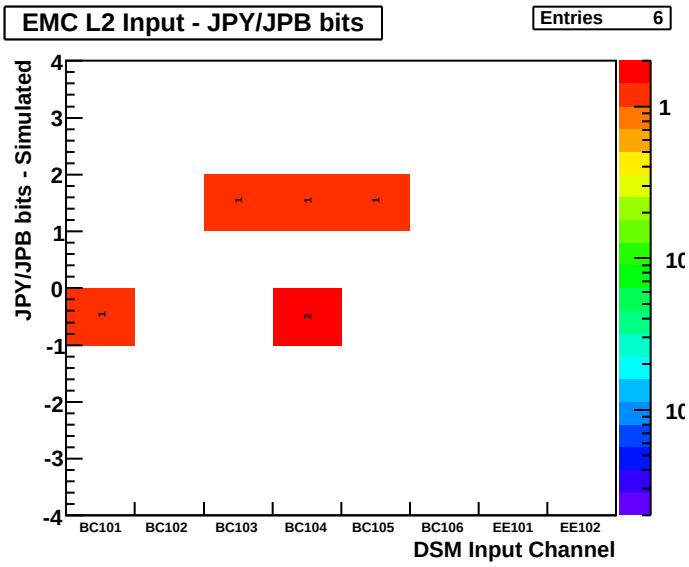

Endcap EMC L1 Input - High Tower Bits
Entries 1.199989e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

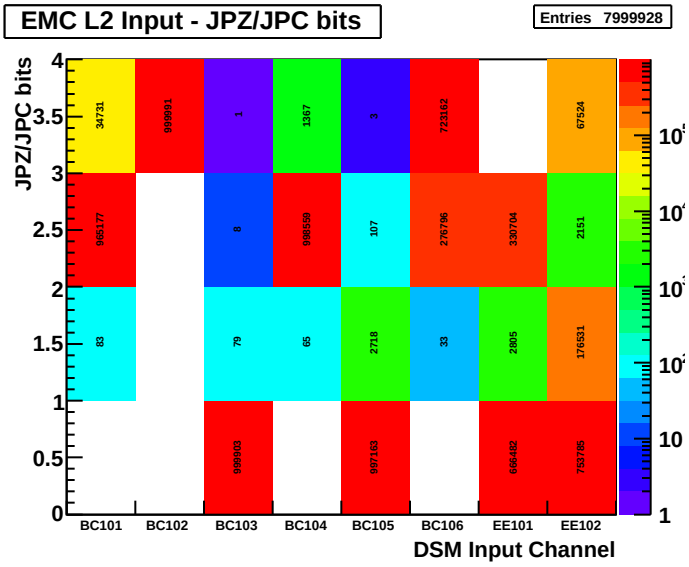

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

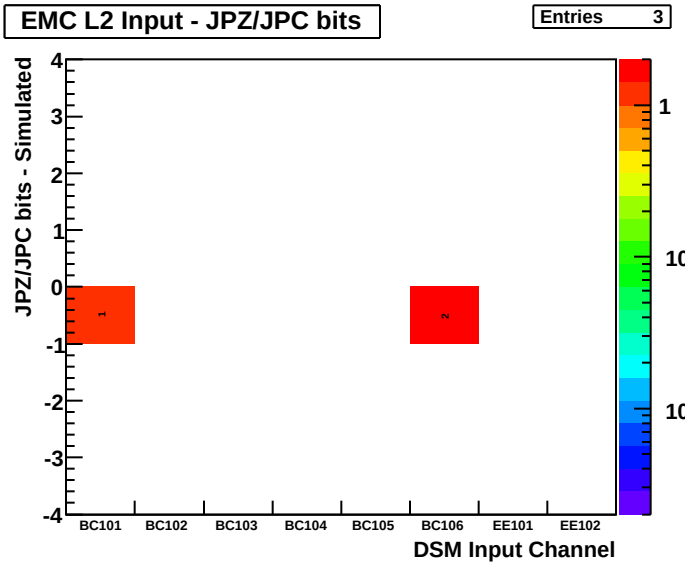

EMC L2 Input - JPX/JPA bits
Entries 7999928
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

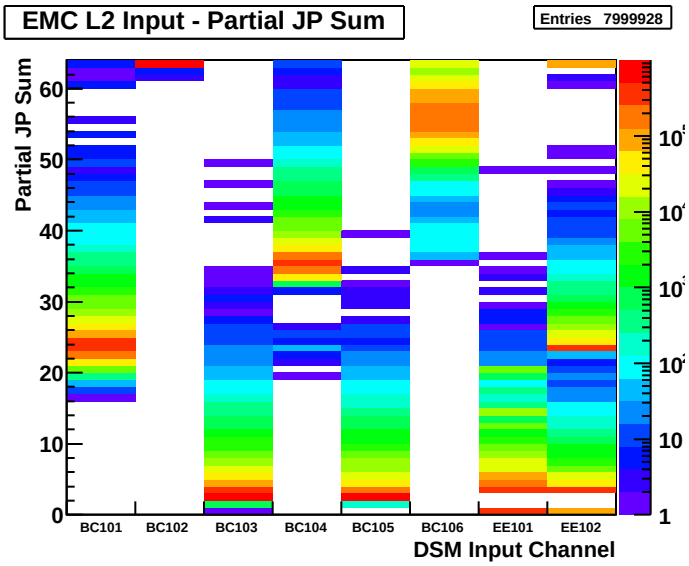

EMC L2 Input - JPX/JPA bits
Entries 1
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

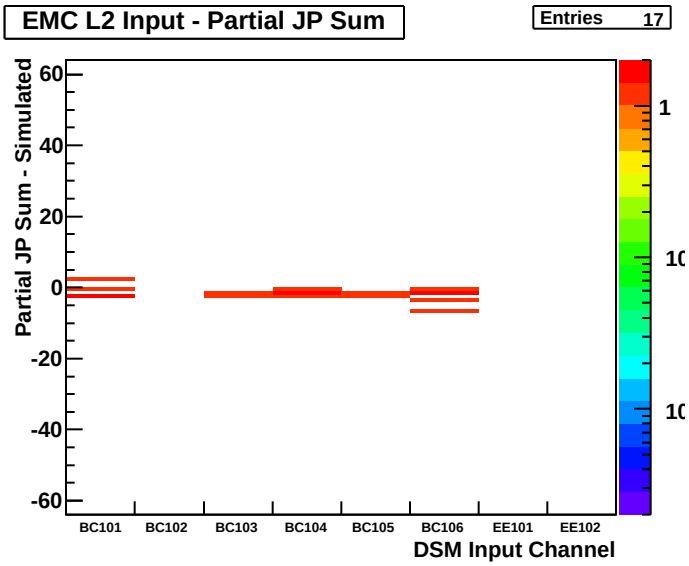

EMC L2 Input - JPY/JPB bits
Entries 7999928
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

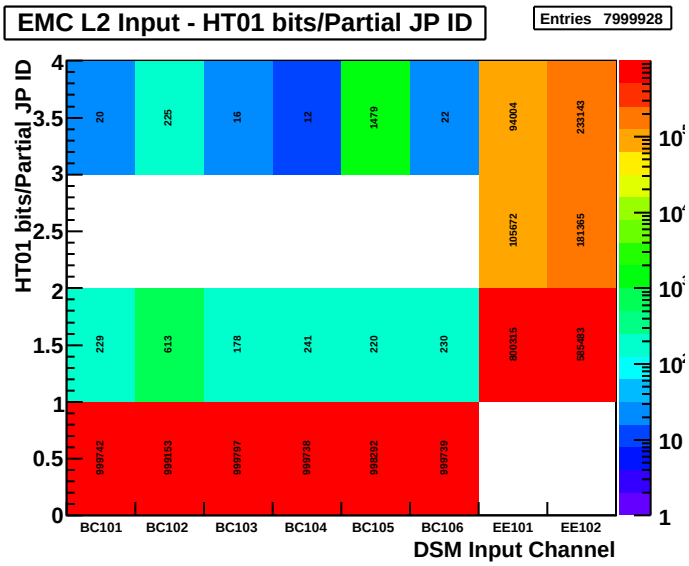

EMC L2 Input - JPY/JPB bits
Entries 6
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

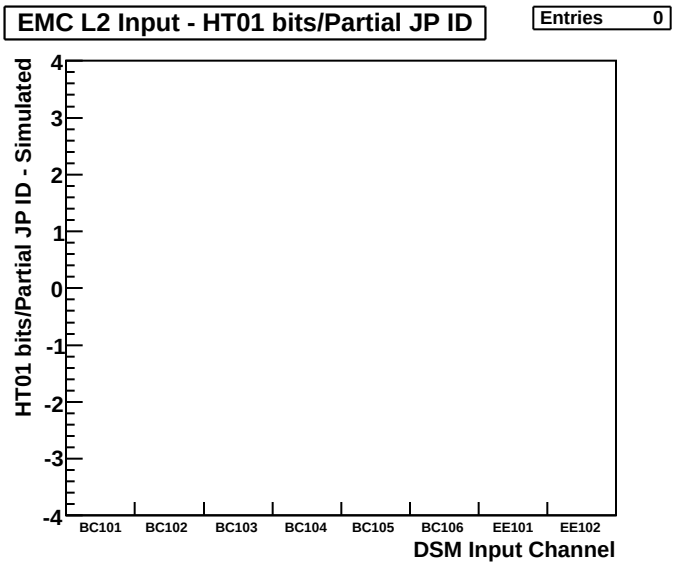

EMC L2 Input - JPZ/JPC bits
Entries 7999928
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

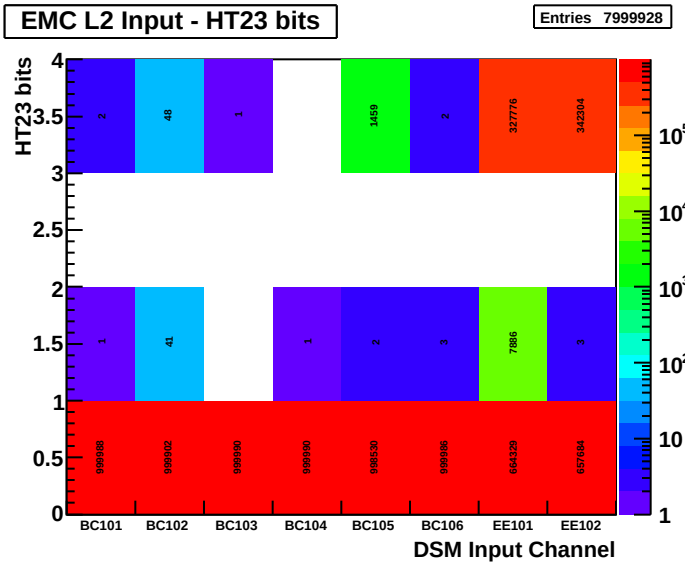

EMC L2 Input - JPZ/JPC bits
Entries 3
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

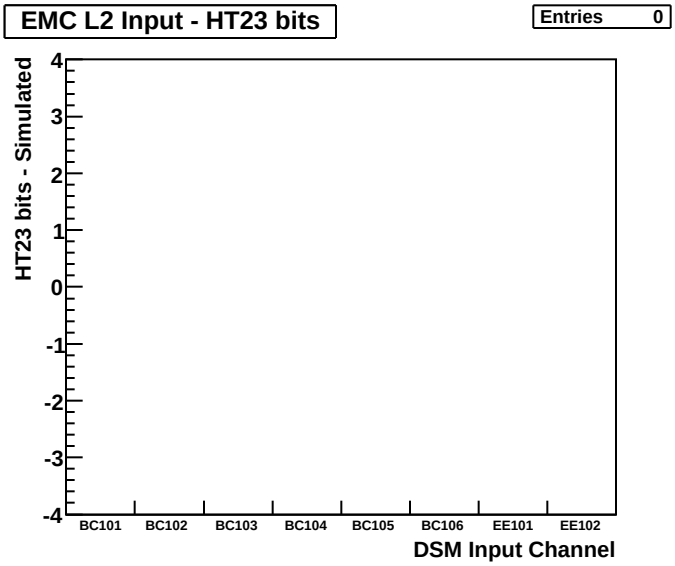

EMC L2 Input - Partial JP Sum
Entries 7999928
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

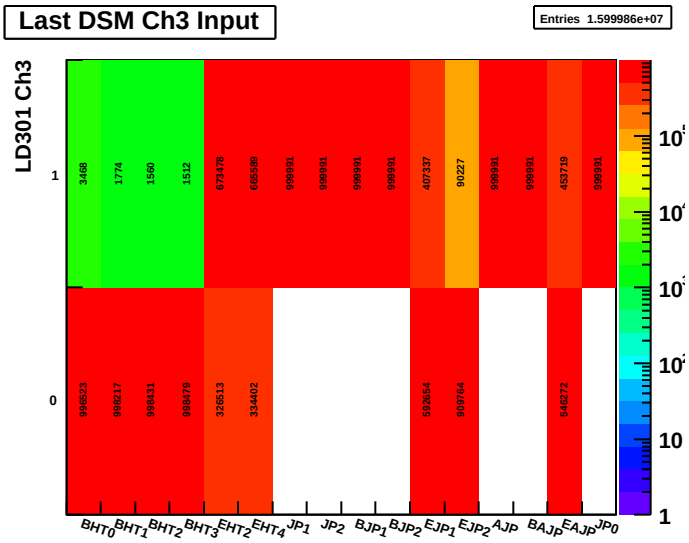

EMC L2 Input - Partial JP Sum
Entries 17
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

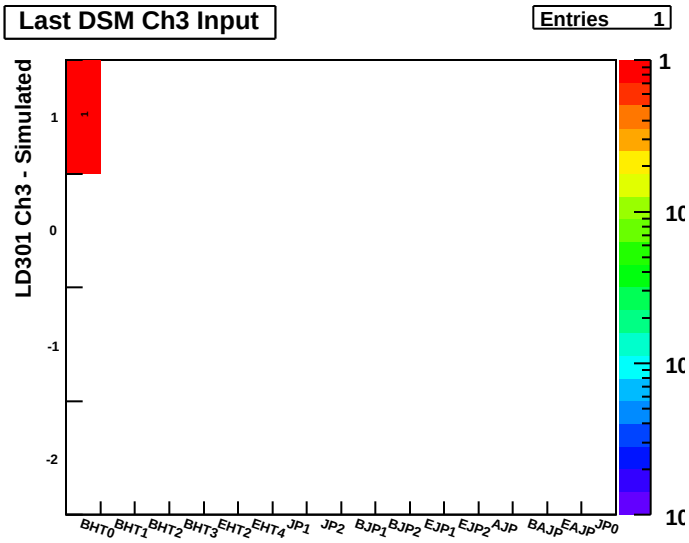

EMC L2 Input - HT01 bits/Partial JP ID
Entries 7999928
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

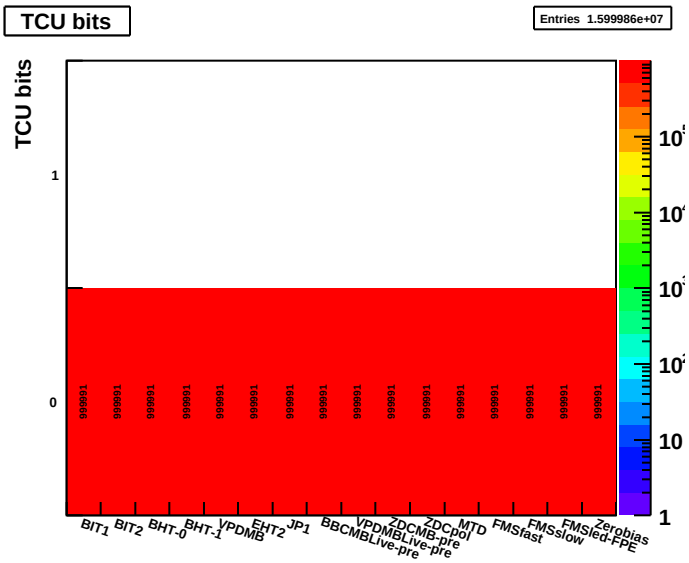

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

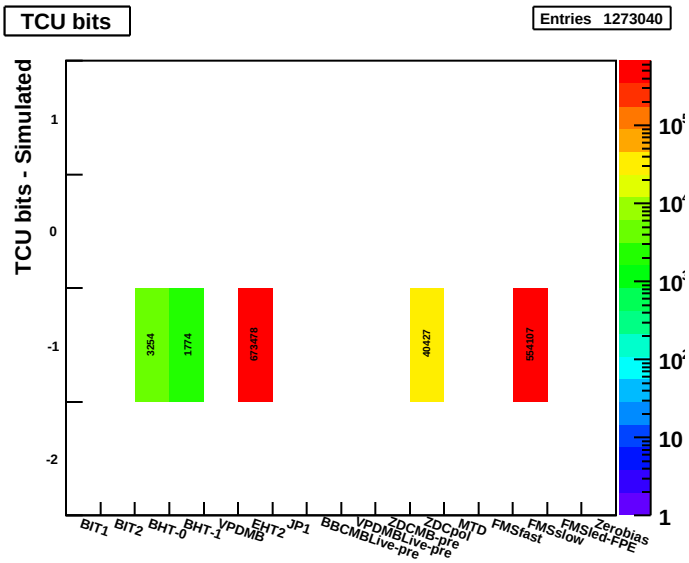

EMC L2 Input - HT23 bits
Entries 7999928
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

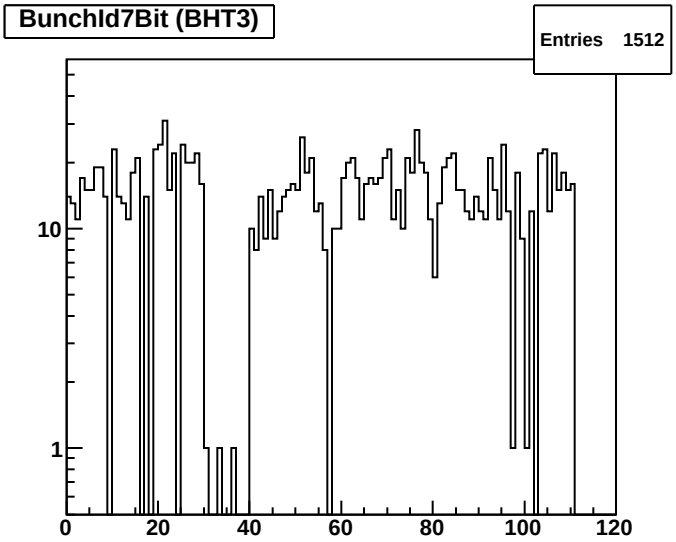

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

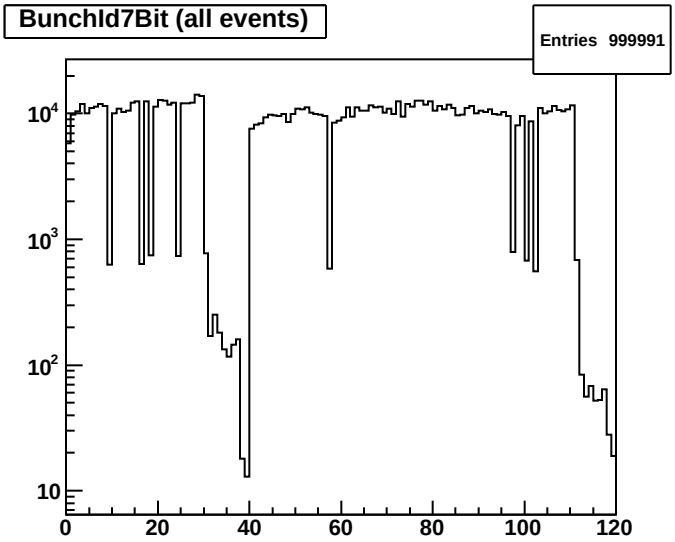

Last DSM Ch3 Input
Entries 1.599986e+07
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

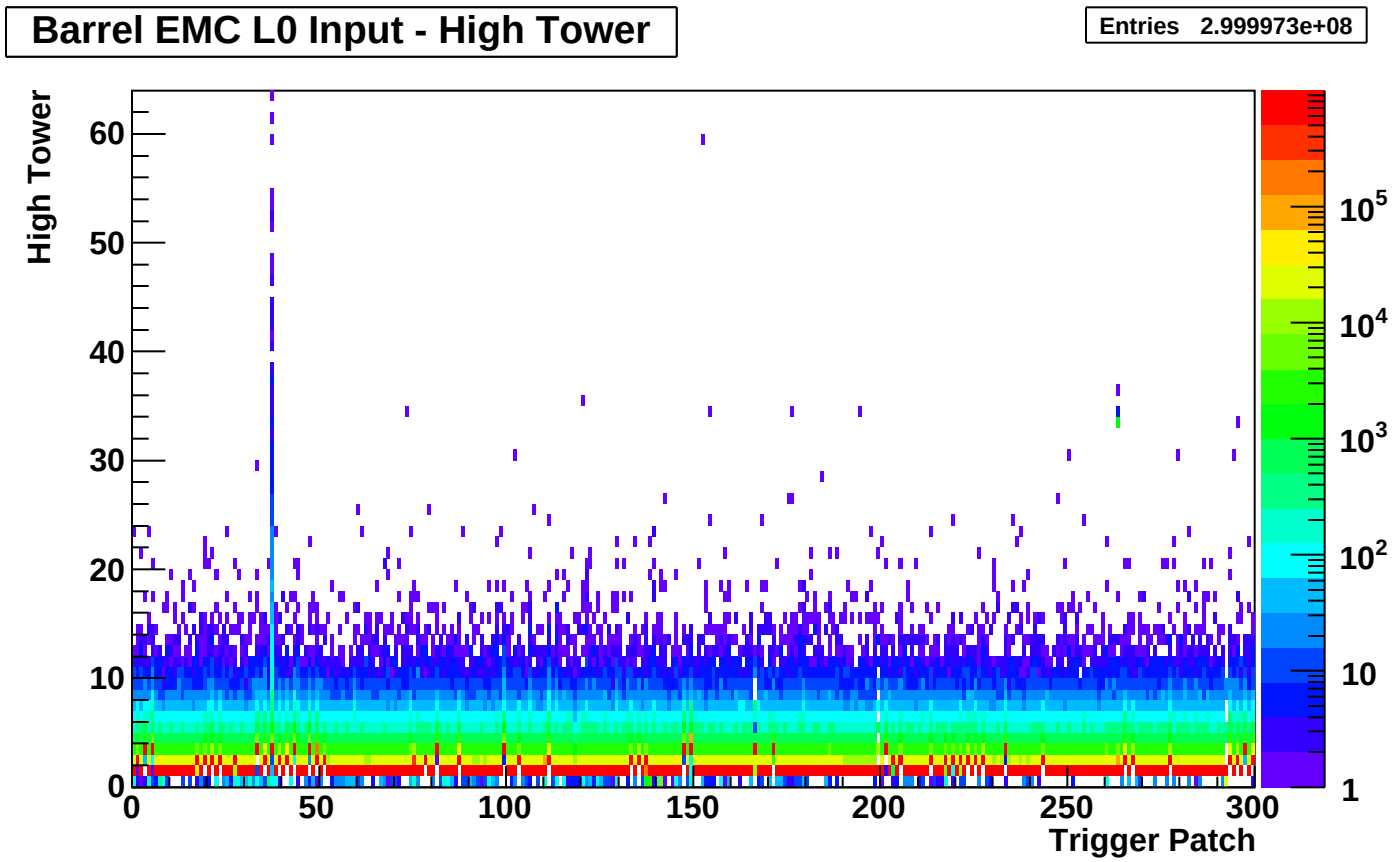

Last DSM Ch3 Input
Entries 1
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

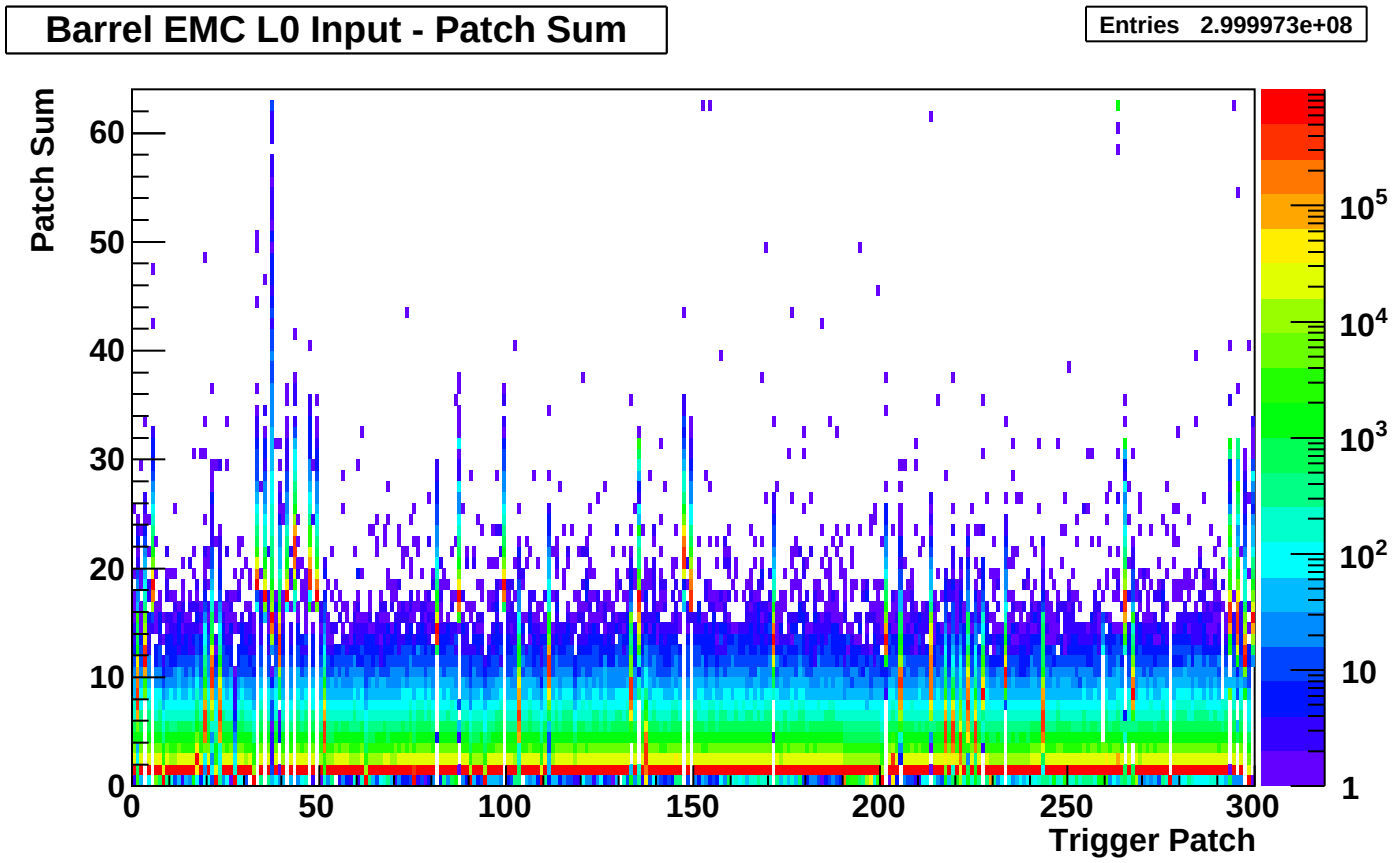

TCU bits
Entries 1.599986e+07
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

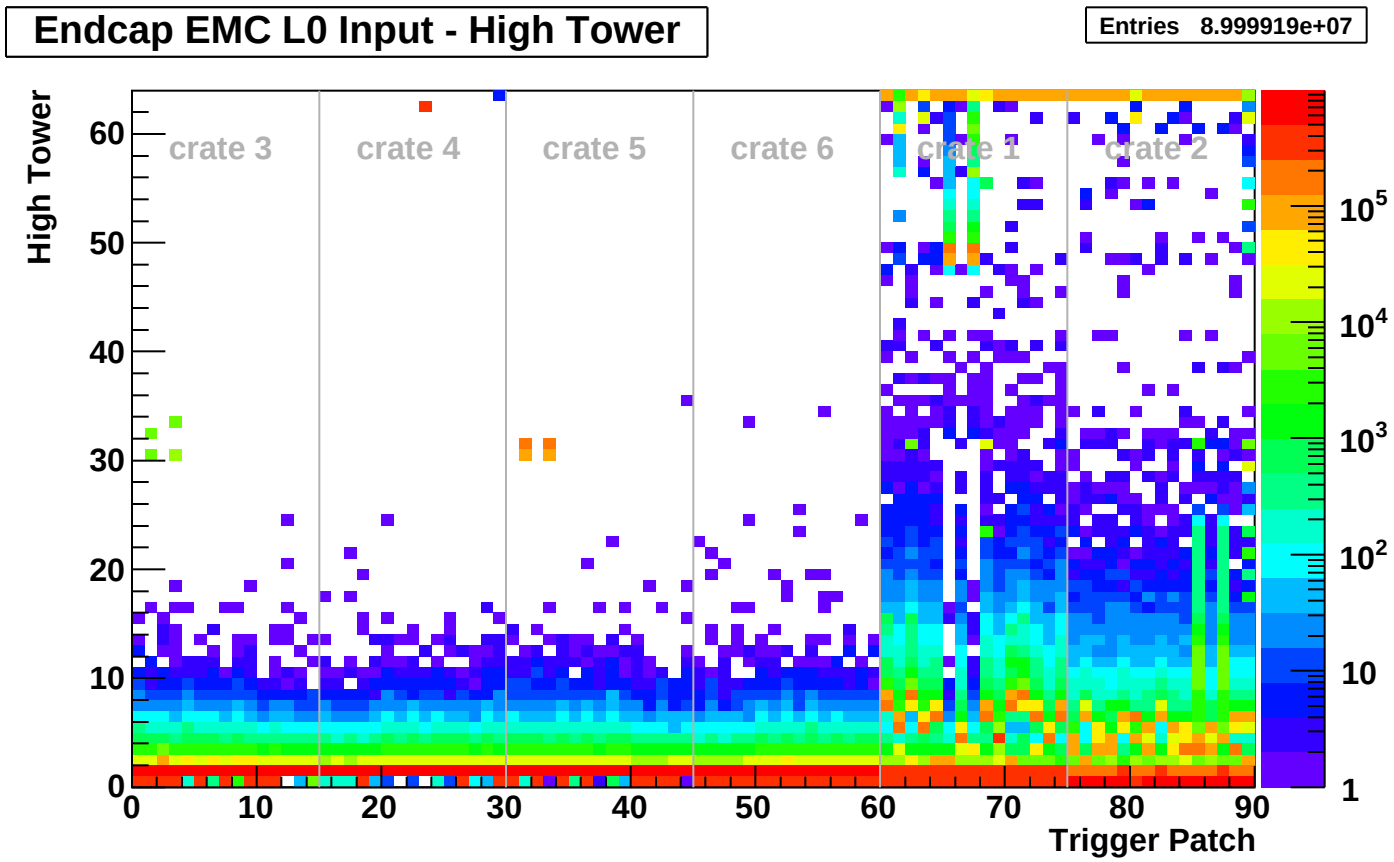

TCU bits
Entries 1273040
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

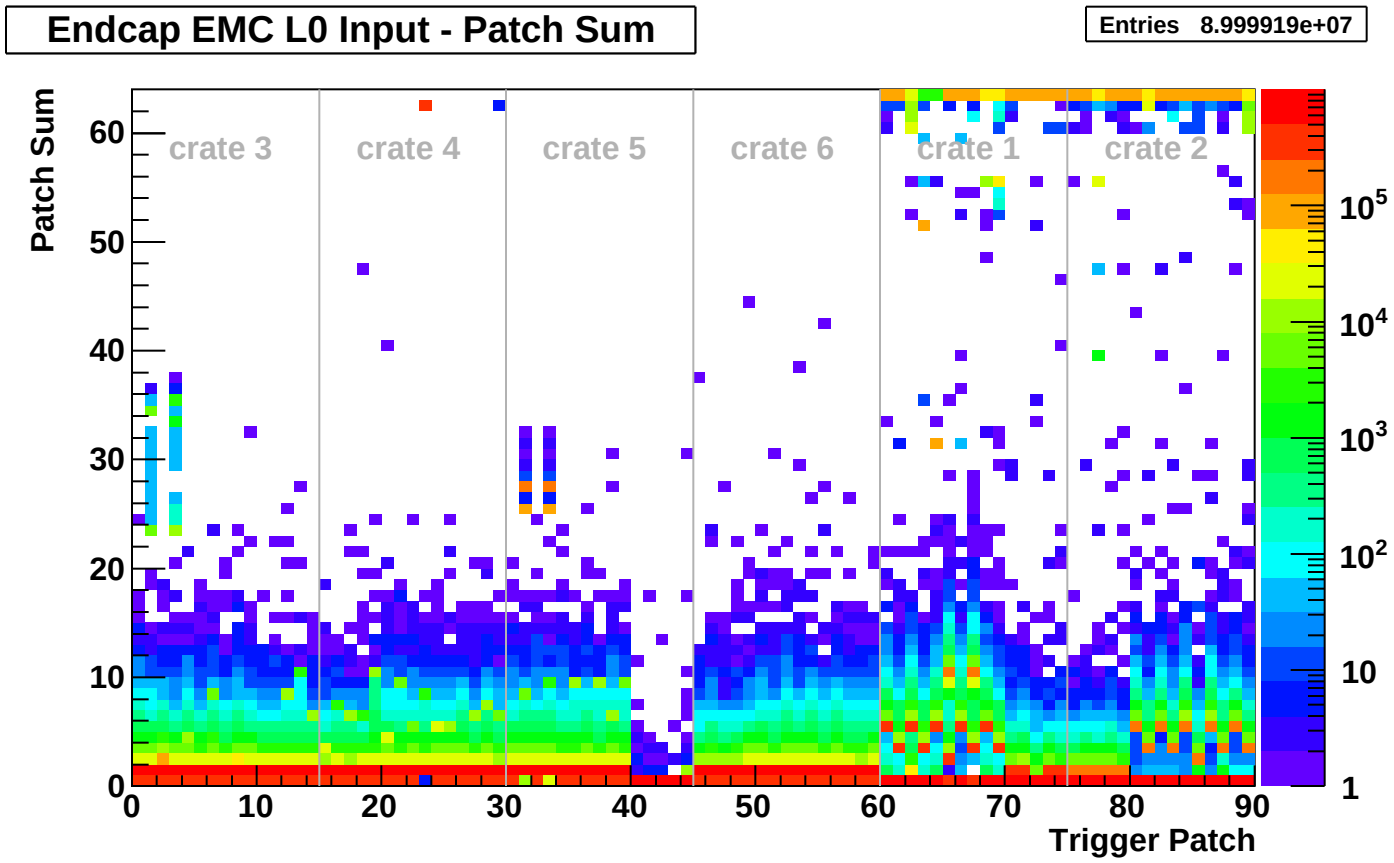

BunchId7Bit (BHT3)
Entries 1512

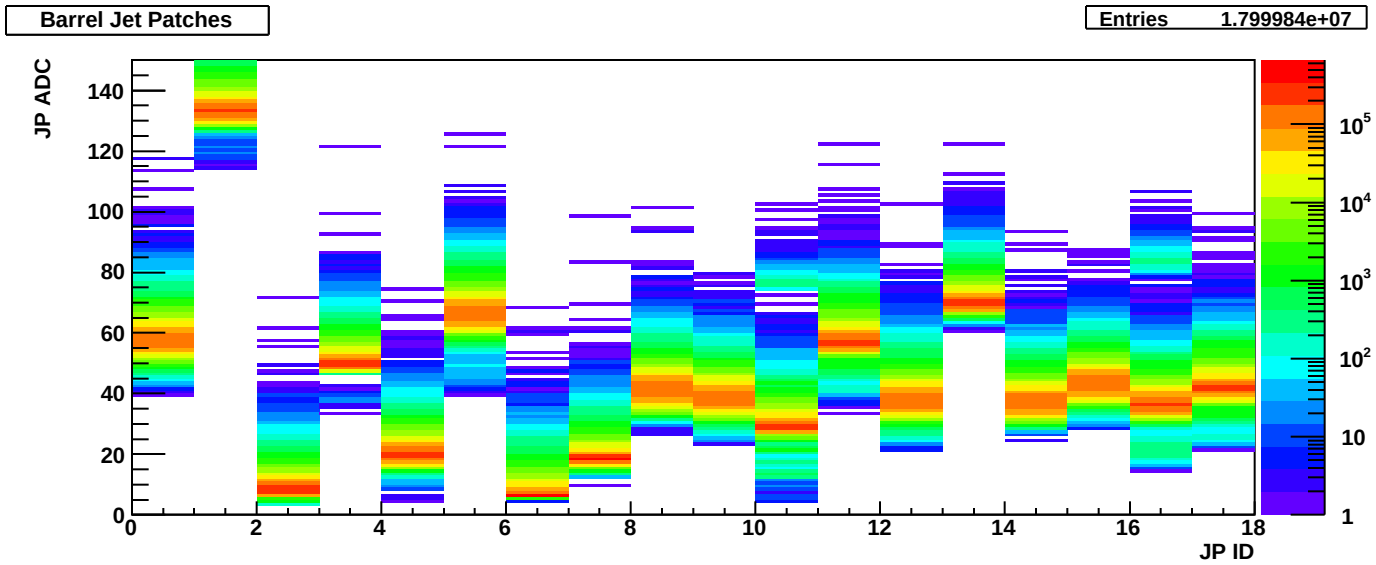

BunchId7Bit (all events)
Entries 999991

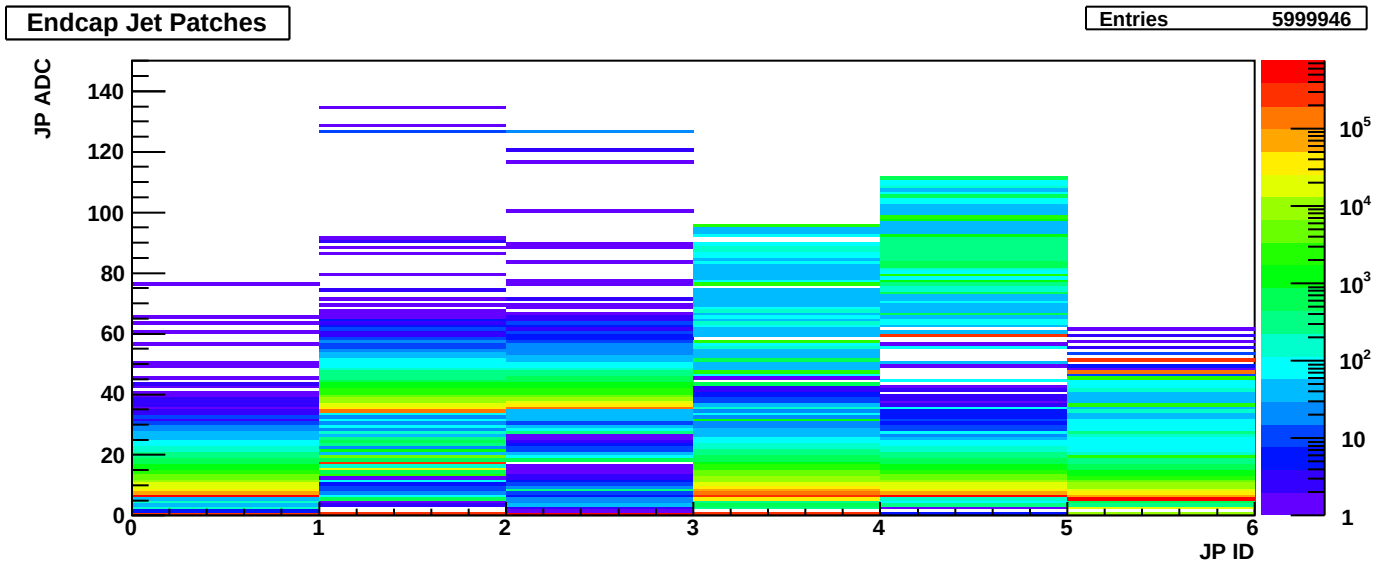

Barrel EMC L0 Input - High Tower
Entries 2.999973e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

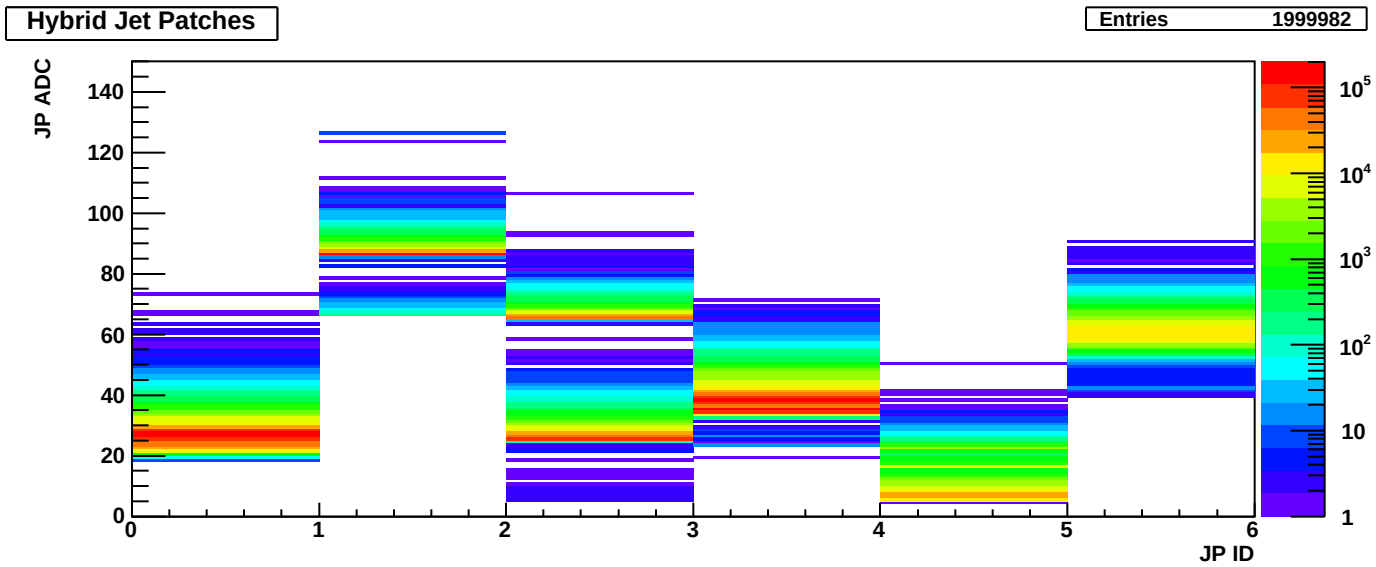

Barrel EMC L0 Input - Patch Sum
Entries 2.999973e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

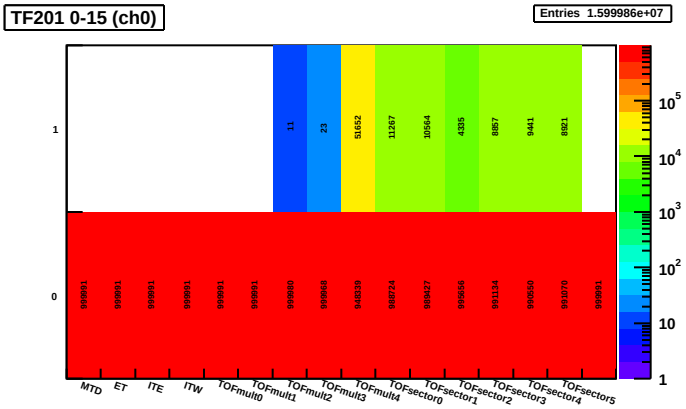

Endcap EMC L0 Input - High Tower
Entries 8.999919e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

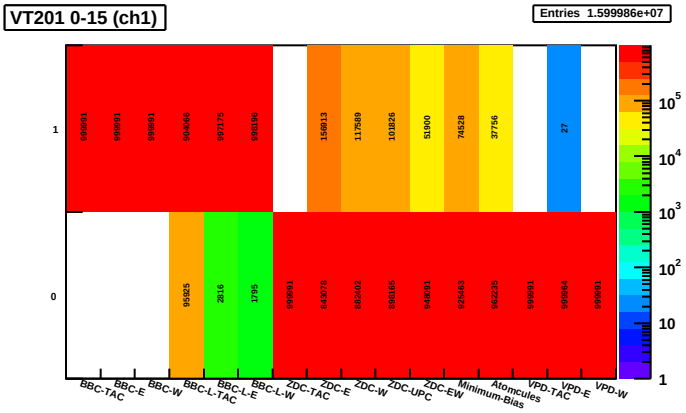

Endcap EMC L0 Input - Patch Sum
Entries 8.999919e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

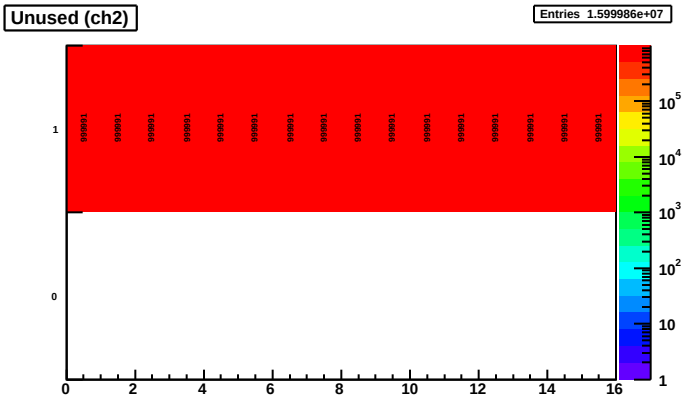

Barrel Jet Patches
Entries 1.799984e+07
JP ADC
JP ID

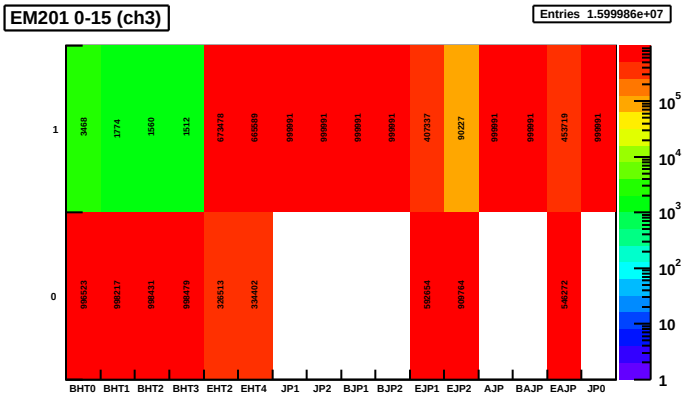

Endcap Jet Patches
Entries 5999946
JP ADC
JP ID

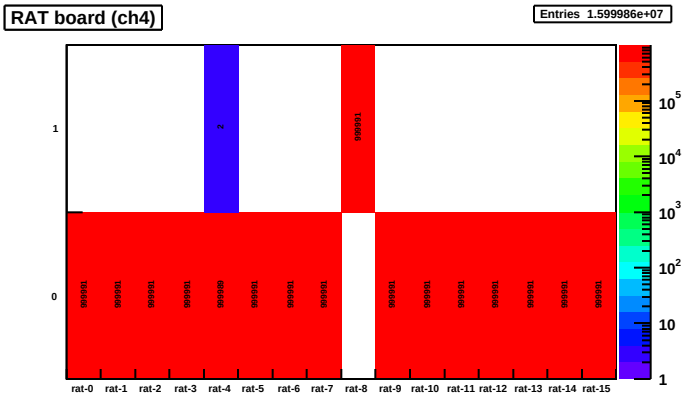

Hybrid Jet Patches
Entries 1999982
JP ADC
JP ID

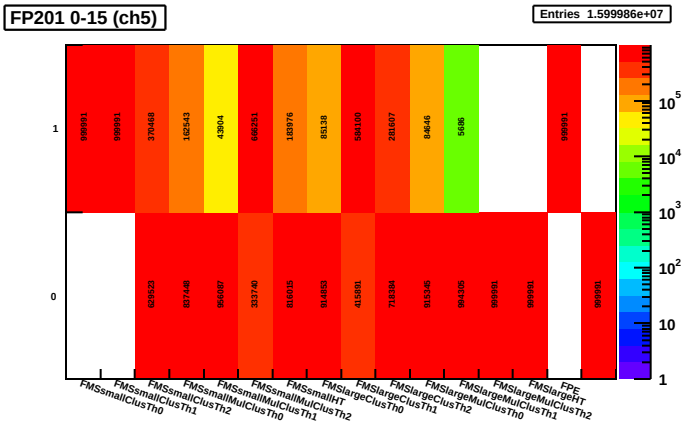

TF201 0-15 (ch0)
Entries 1.599986e+07
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

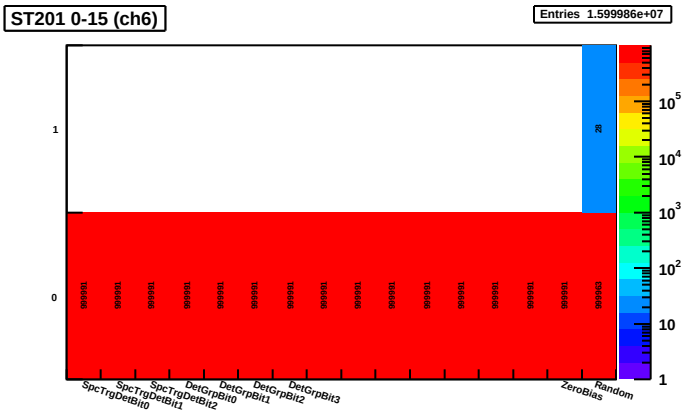

VT201 0-15 (ch1)
Entries 1.599986e+07
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

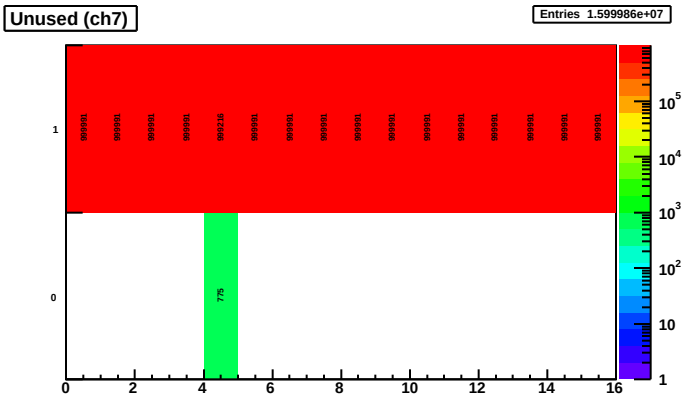

Unused (ch2)
Entries 1.599986e+07

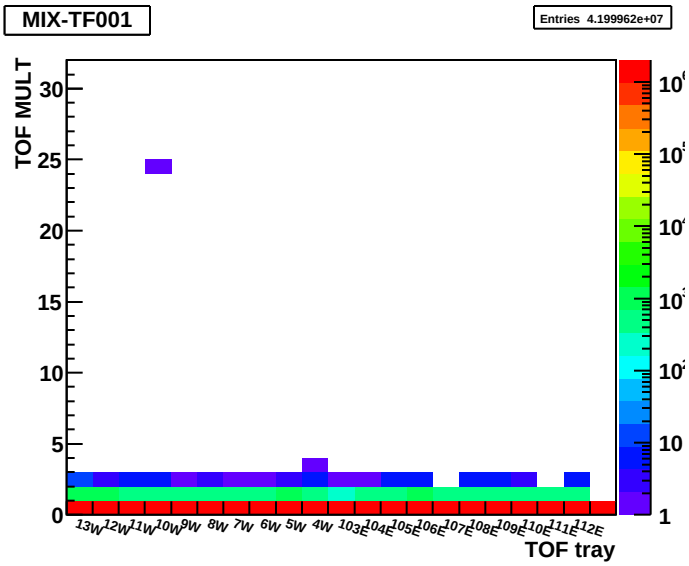

EM201 0-15 (ch3)
Entries 1.599986e+07
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

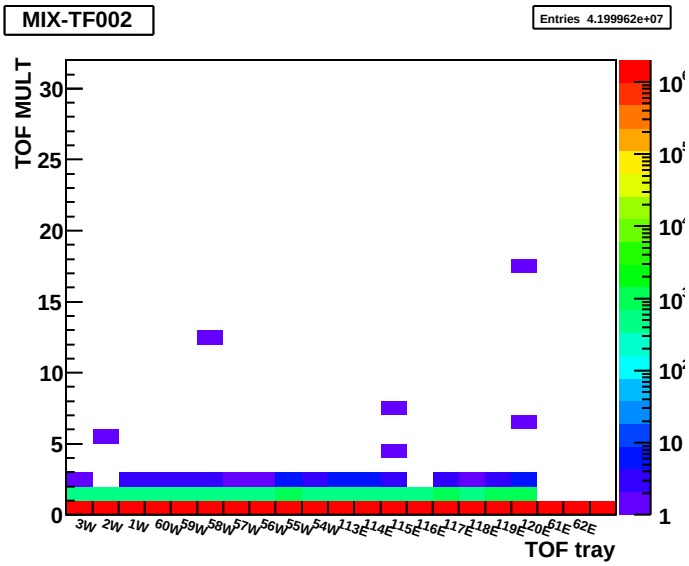

RAT board (ch4)
Entries 1.599986e+07
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

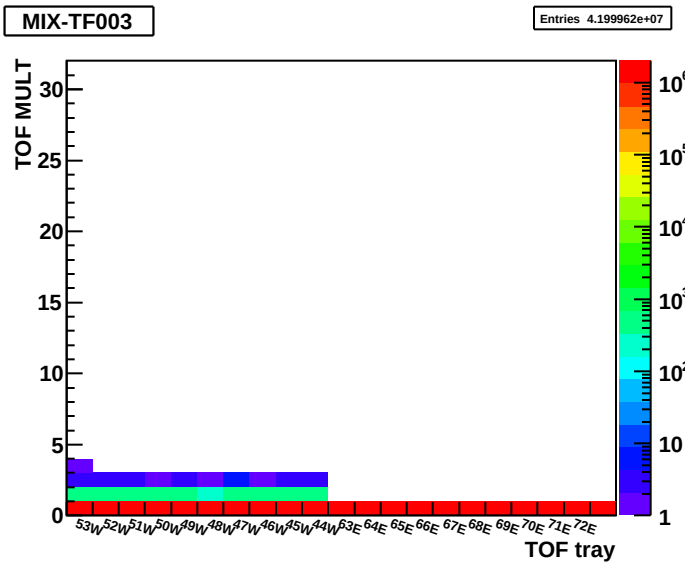

FP201 0-15 (ch5)
Entries 1.599986e+07
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

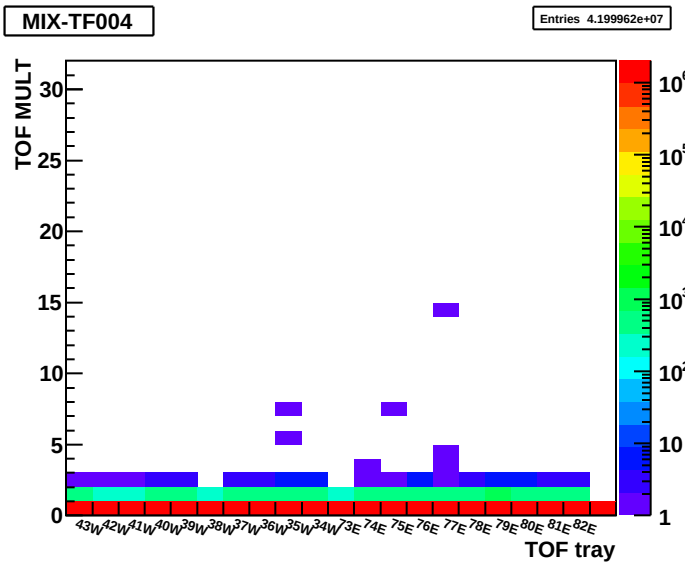

ST201 0-15 (ch6)
Entries 1.599986e+07
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetCrpBit0
DetCrpBit1
DetCrpBit2
DetCrpBit3
ZeroBias
Random

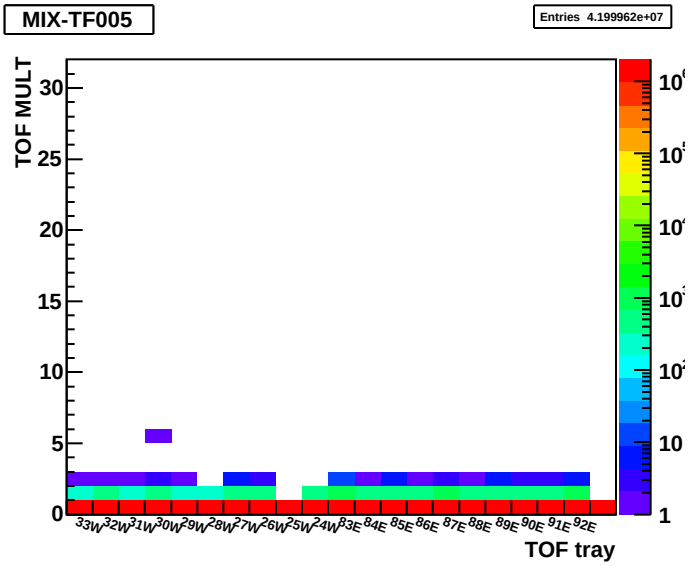

Unused (ch7)
Entries 1.599986e+07

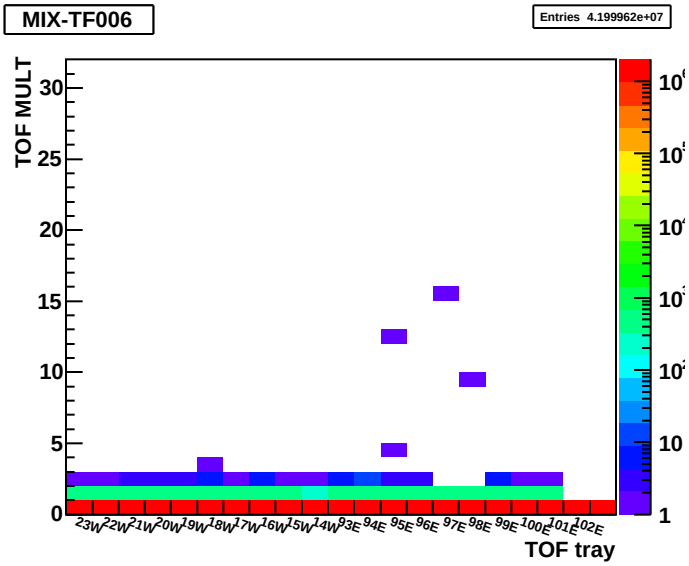

MIX-TF001
Entries 4.199962e+07
TOF MULT
TOF tray

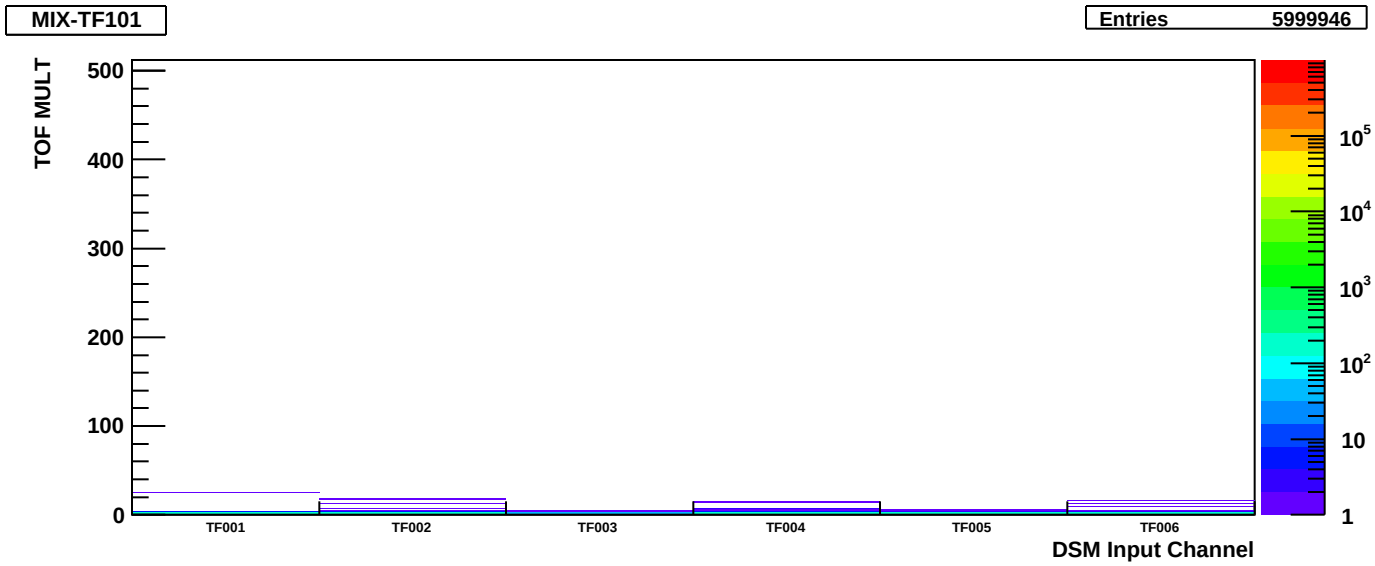

MIX-TF002
Entries 4.199962e+07
TOF MULT
TOF tray

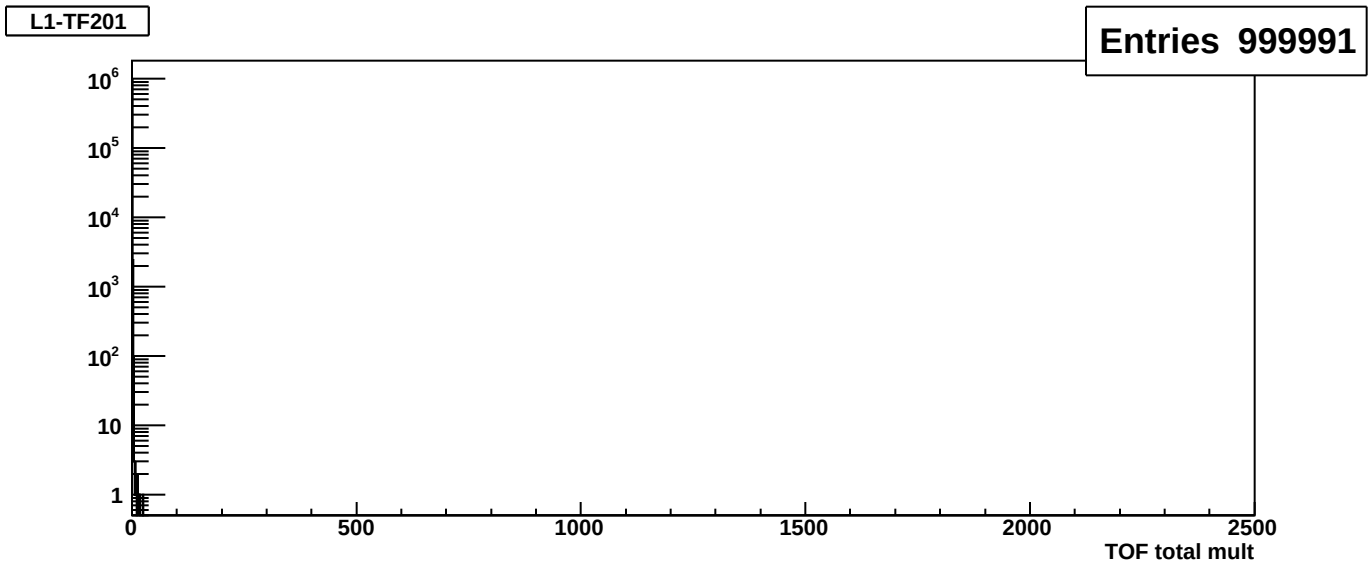

MIX-TF003
Entries 4.199962e+07
TOF MULT
TOF tray

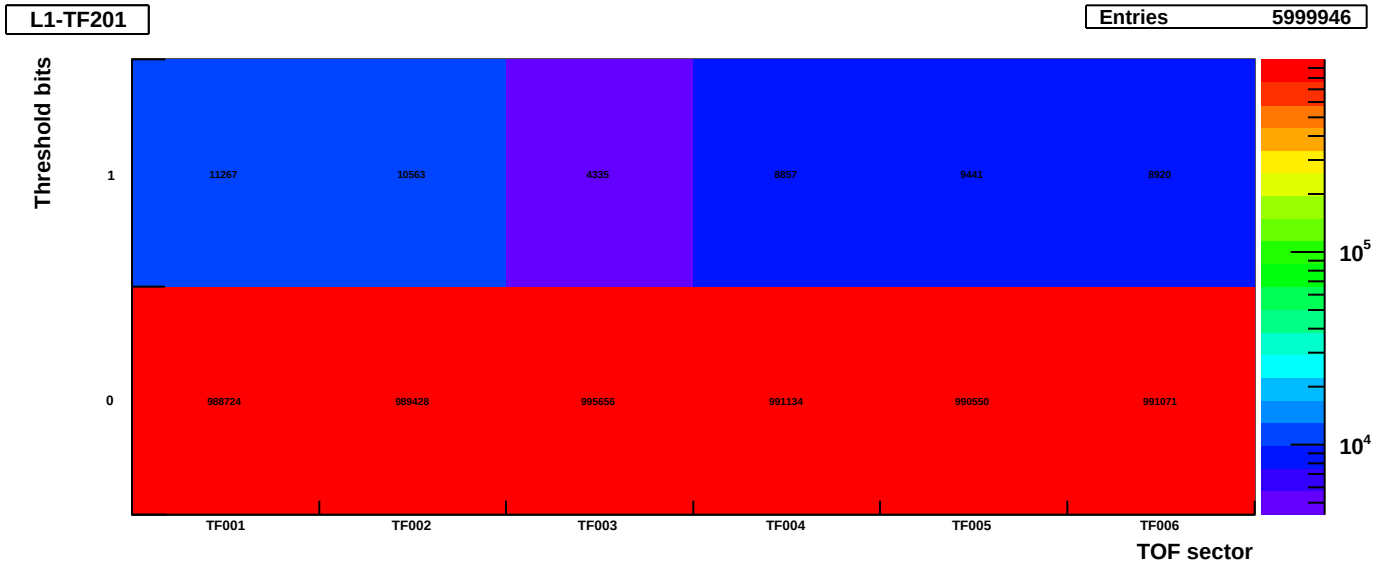

MIX-TF004
Entries 4.199962e+07
TOF MULT
TOF tray

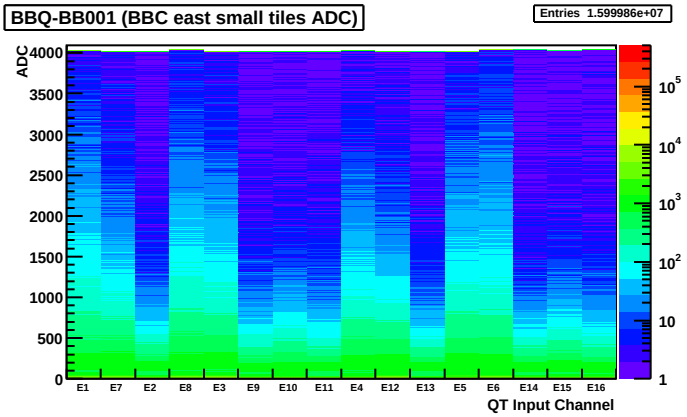

MIX-TF005
Entries 4.199962e+07
TOF MULT
TOF tray

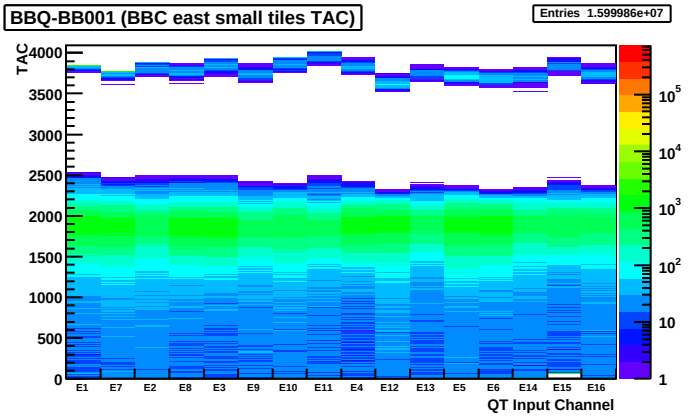

MIX-TF006
Entries 4.199962e+07
TOF MULT
TOF tray

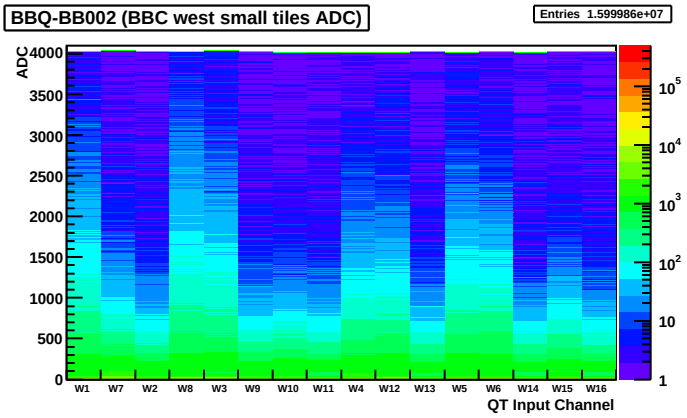

MIX-TF101
Entries 5999946
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
$10^5$
$10^4$
$10^3$
$10^2$
10
1

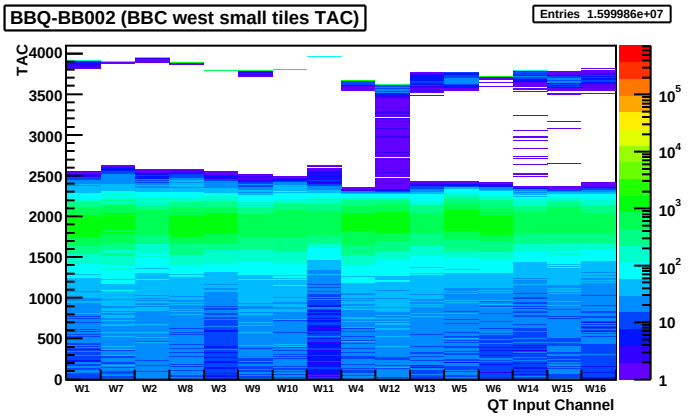

L1-TF201
Entries 999991
$10^6$
$10^5$
$10^4$
$10^3$
$10^2$
10
1
0
500
1000
1500
2000
2500
TOF total mult

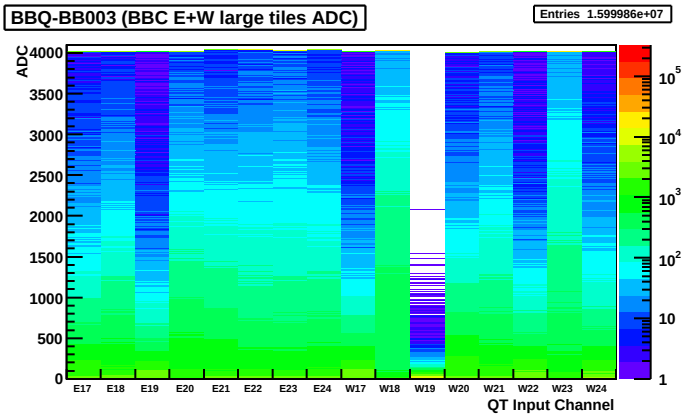

L1-TF201
Entries 5999946
Threshold bits
1
0
11267
10563
4335
8857
9441
8920
988724
989428
995656
991134
990550
991071
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
$10^5$
$10^4$

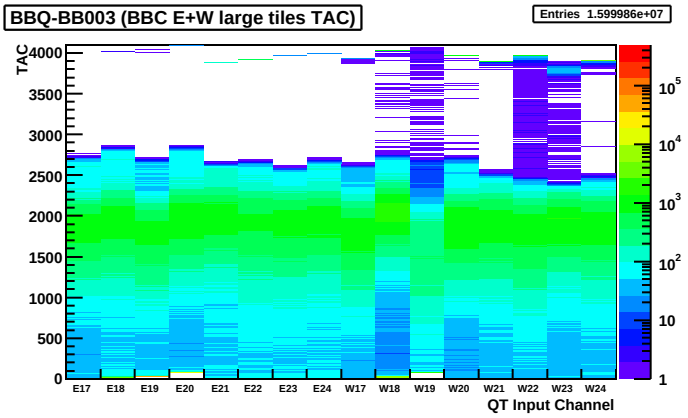

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.599986e+07
ADC
QT Input Channel

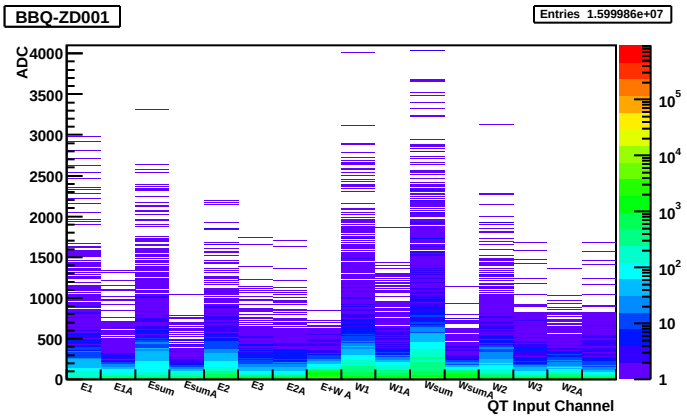

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.599986e+07
TAC
QT Input Channel

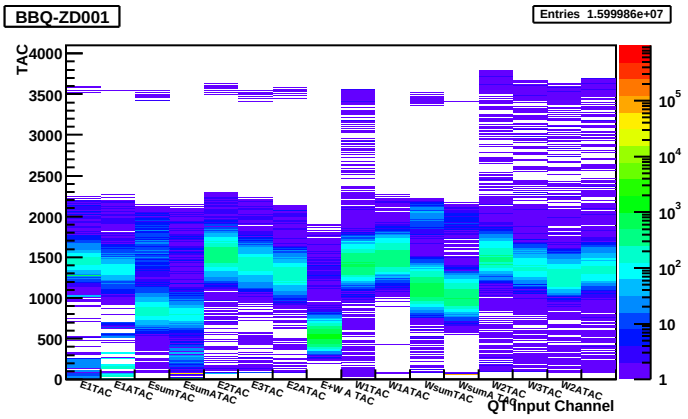

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.599986e+07
ADC
QT Input Channel

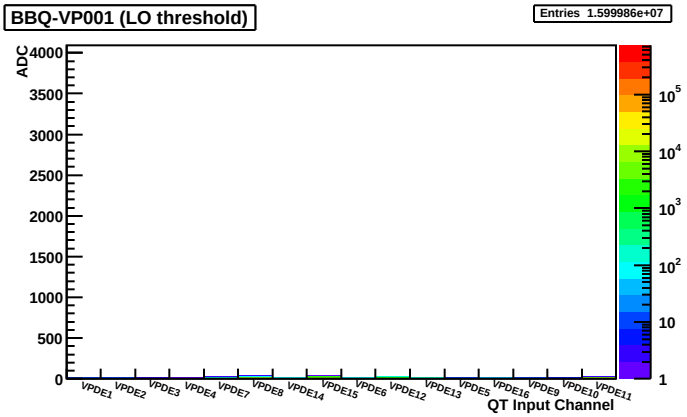

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.599986e+07
TAC
QT Input Channel

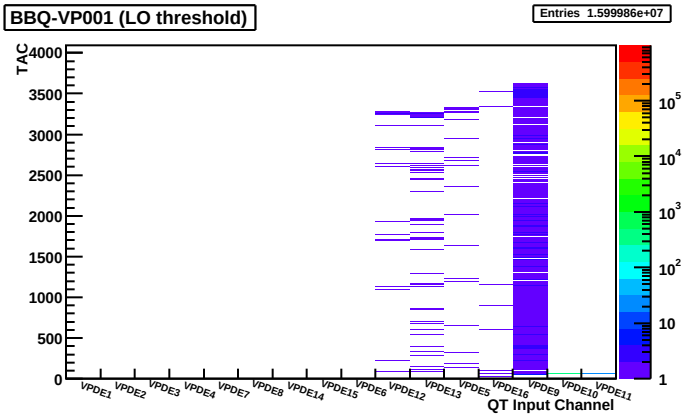

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.599986e+07
ADC
QT Input Channel

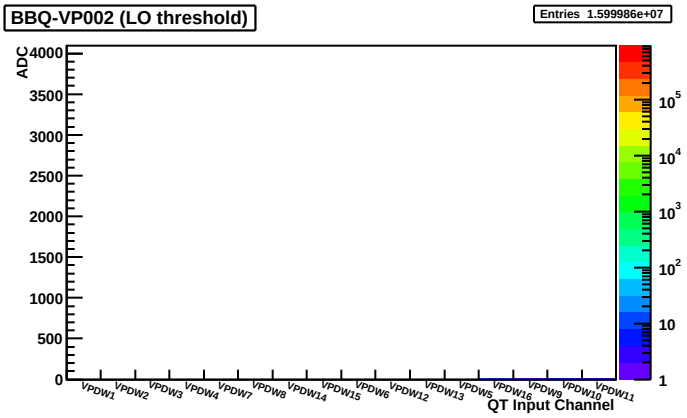

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.599986e+07
TAC
QT Input Channel

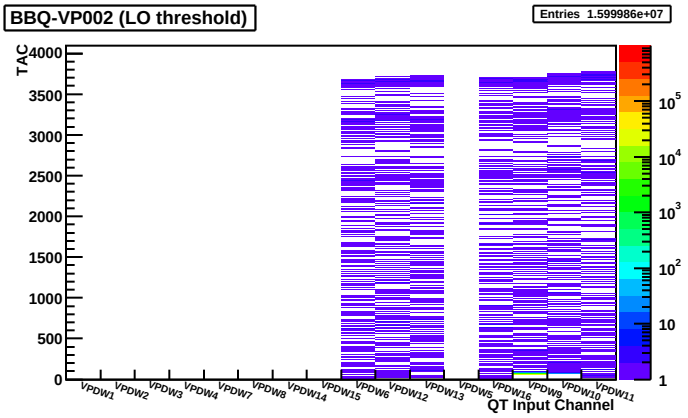

BBQ-ZD001
Entries 1.599986e+07
ADC
QT Input Channel

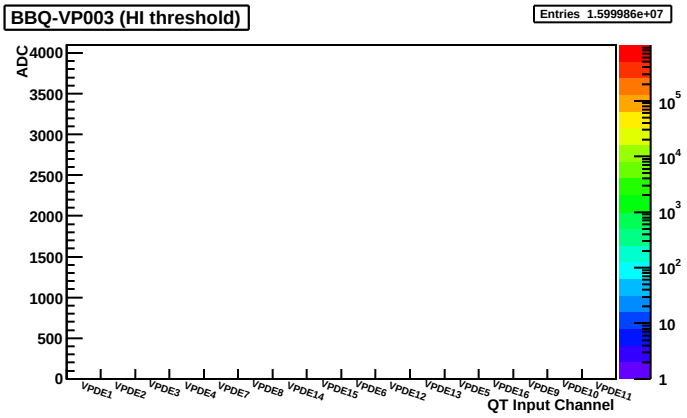

BBQ-ZD001
Entries 1.599986e+07
TAC
QT Input Channel

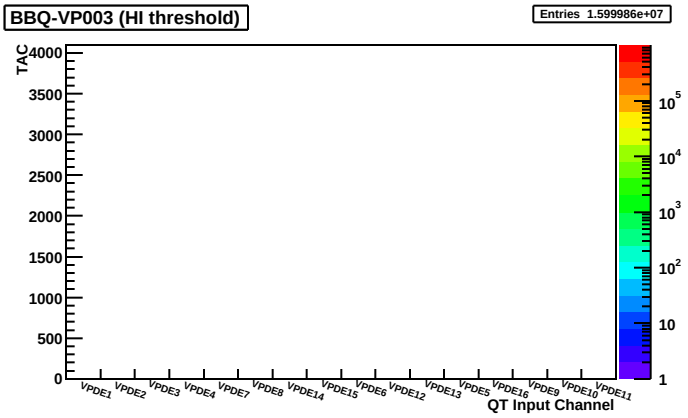

BBQ-VP001 (LO threshold)
Entries 1.599986e+07
ADC
QT Input Channel

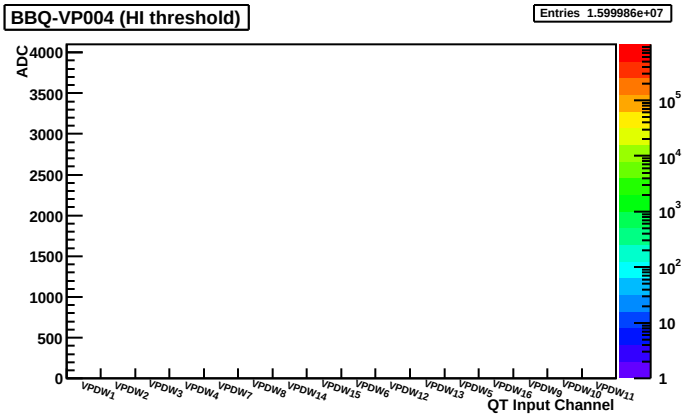

BBQ-VP001 (LO threshold)
Entries 1.599986e+07
TAC
QT Input Channel

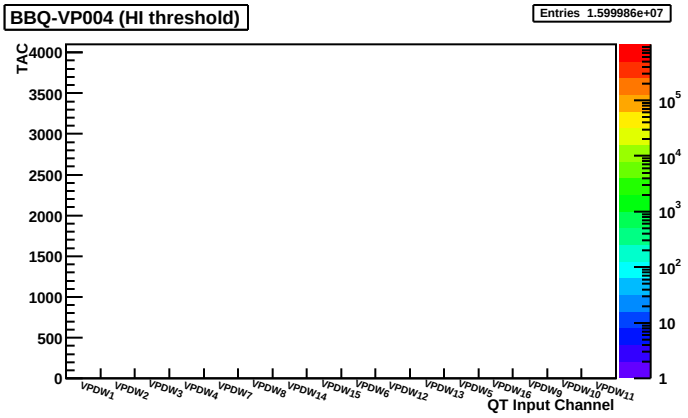

BBQ-VP002 (LO threshold)
Entries 1.599986e+07
ADC
QT Input Channel

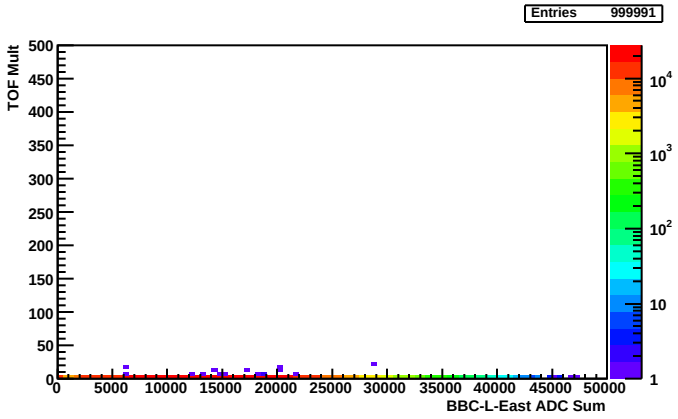

BBQ-VP002 (LO threshold)
Entries 1.599986e+07
TAC
QT Input Channel

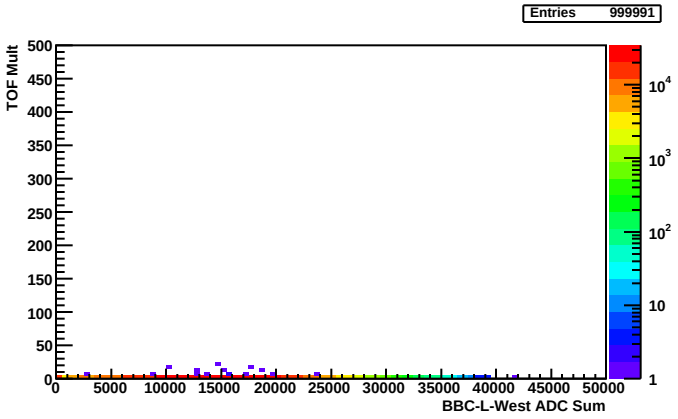

BBQ-VP003 (HI threshold)
Entries 1.599986e+07
ADC
QT Input Channel

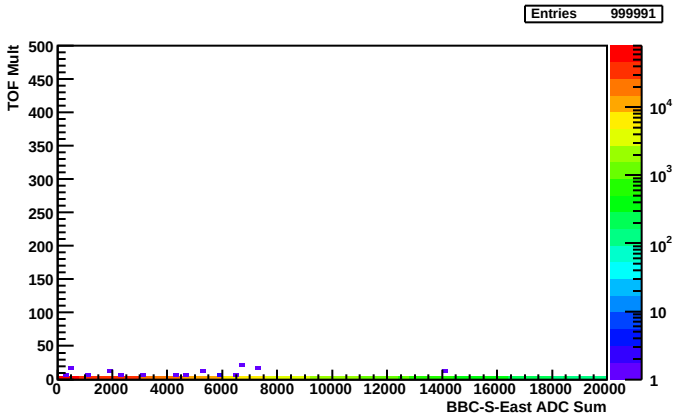

BBQ-VP003 (HI threshold)
Entries 1.599986e+07
TAC
QT Input Channel

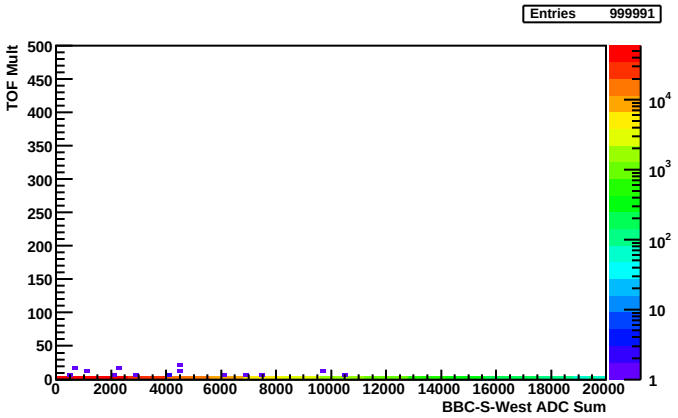

BBQ-VP004 (HI threshold)
Entries 1.599986e+07
ADC
QT Input Channel

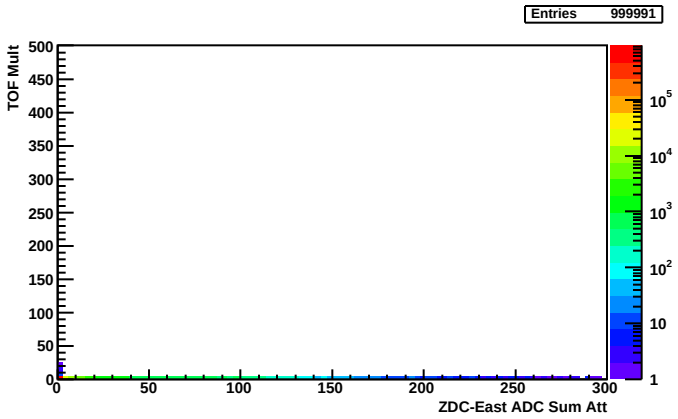

BBQ-VP004 (HI threshold)
Entries 1.599986e+07
TAC
QT Input Channel

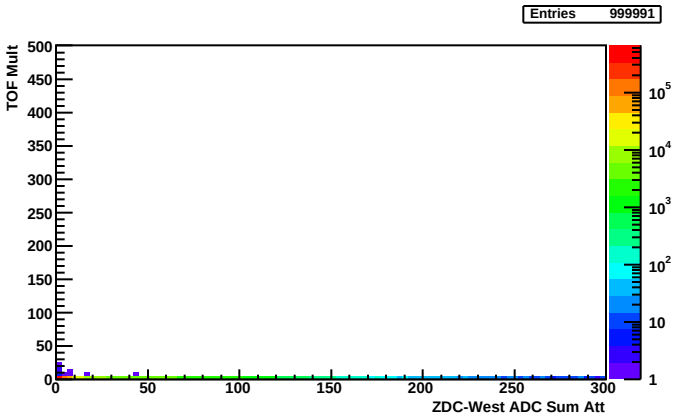

Entries 999991
TOF Mult
BBC-L-East ADC Sum

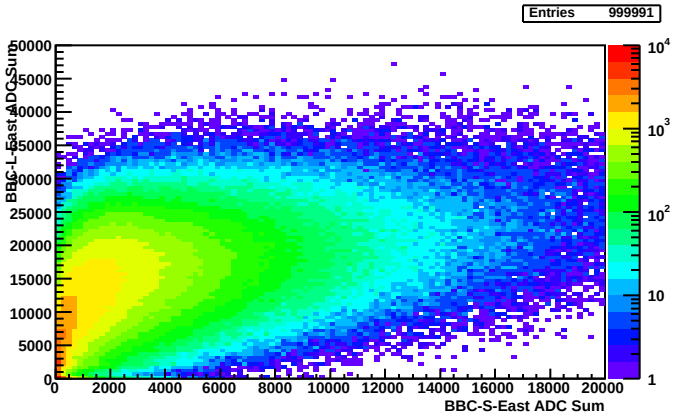

Entries 999991
TOF Mult
BBC-L-West ADC Sum

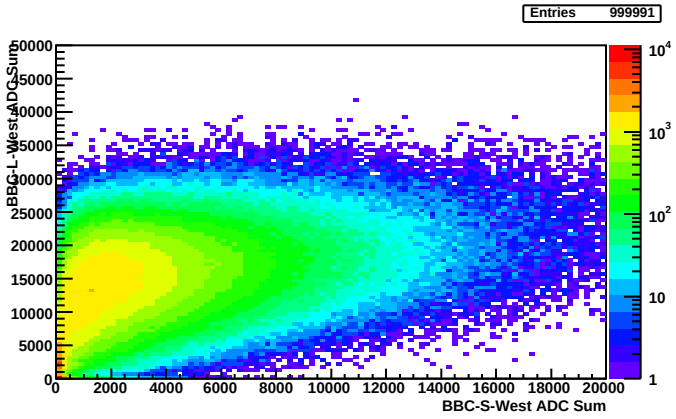

Entries 999991
TOF Mult
BBC-S-East ADC Sum

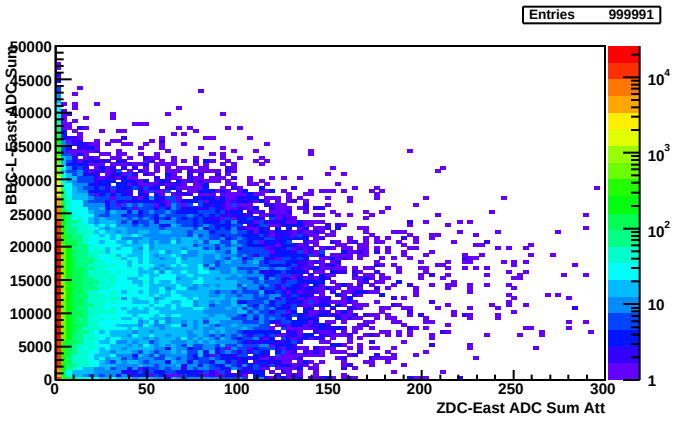

Entries 999991
TOF Mult
BBC-S-West ADC Sum

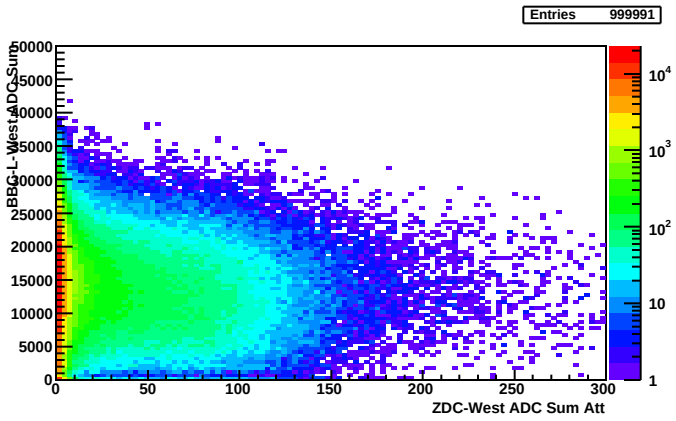

Entries 999991
TOF Mult
ZDC-East ADC Sum Att

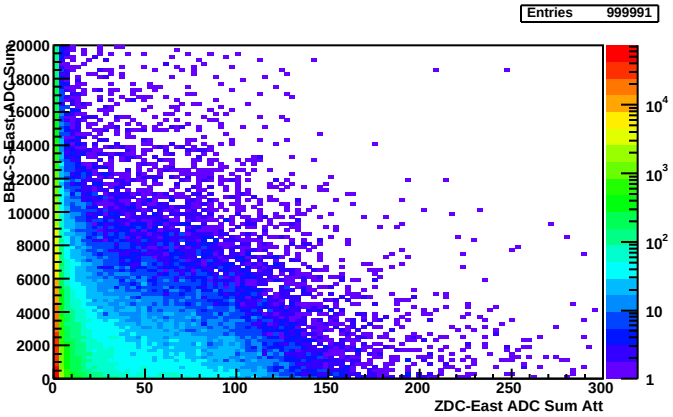

Entries 999991
TOF Mult
ZDC-West ADC Sum Att

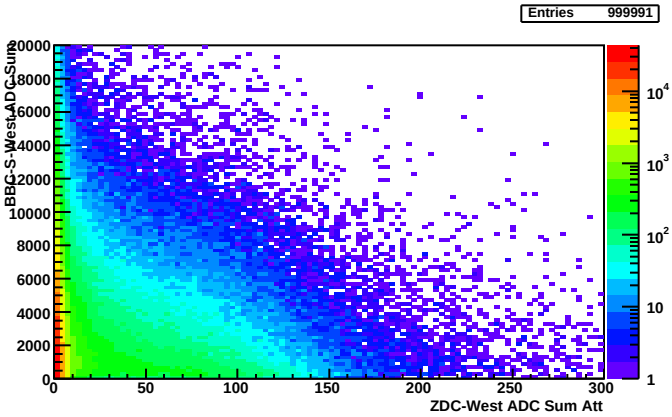

Entries 999991
BBC-L-East ADC Sum
BBC-S-East ADC Sum

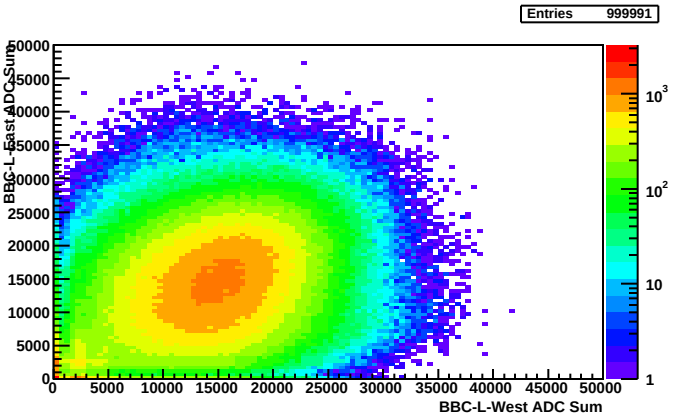

Entries 999991
BBC-L-West ADC Sum
BBC-S-West ADC Sum

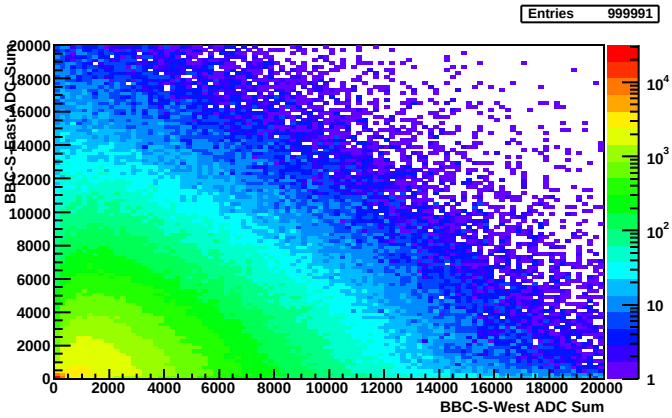

Entries 999991
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

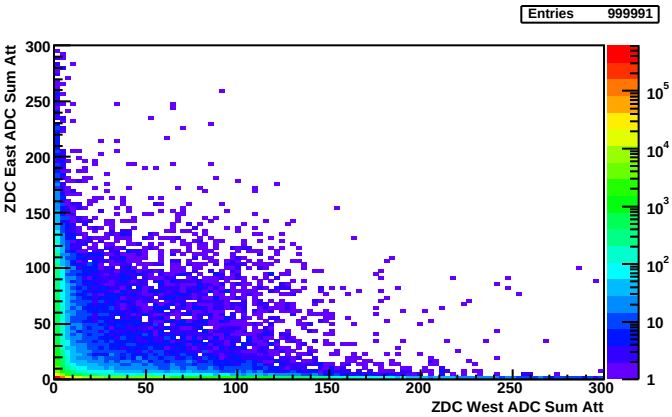

Entries 999991
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

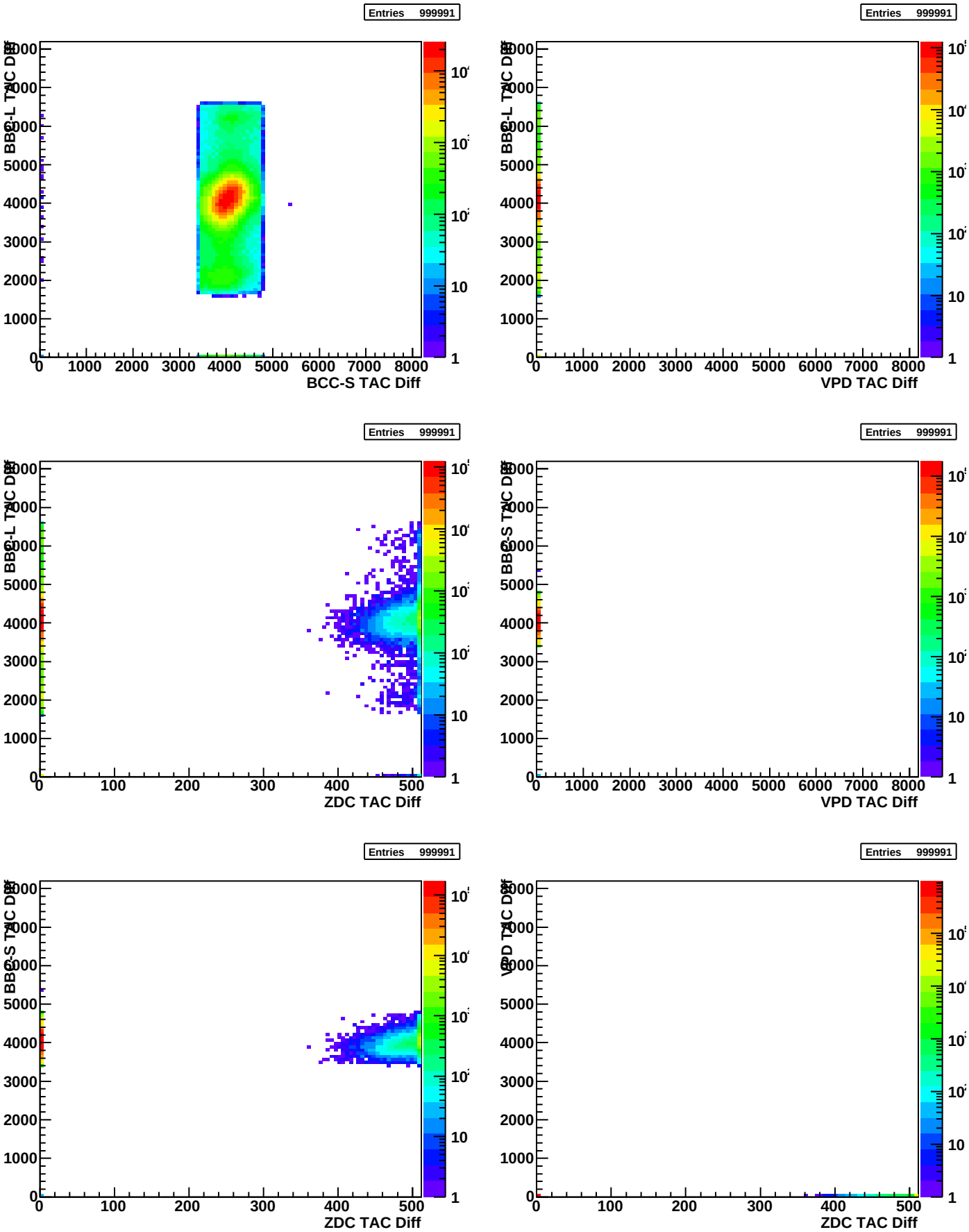

Entries 999991
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

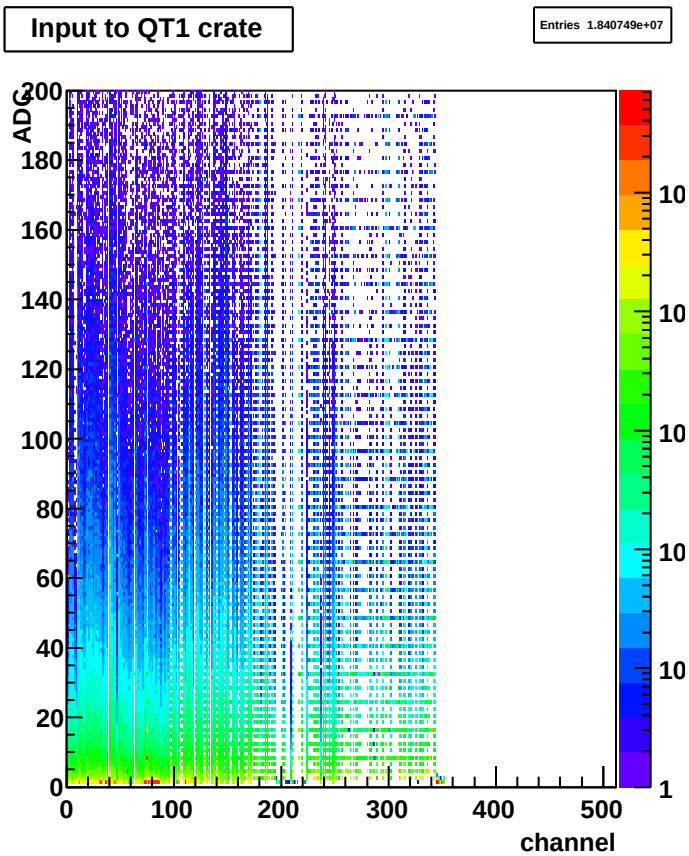

Entries 999991
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

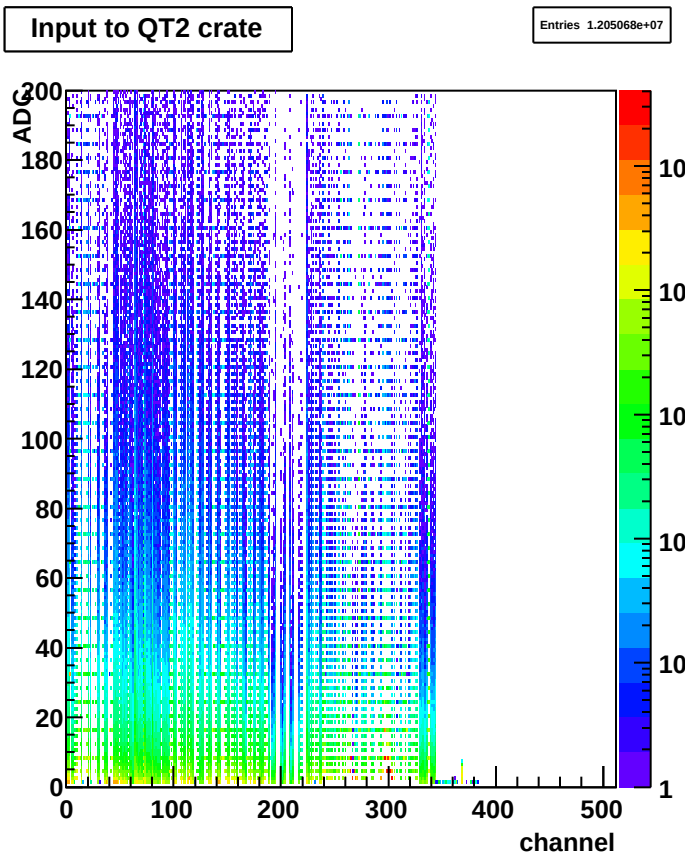

Entries 999991
BBC-L-East ADC Sum
BBC-L-West ADC Sum

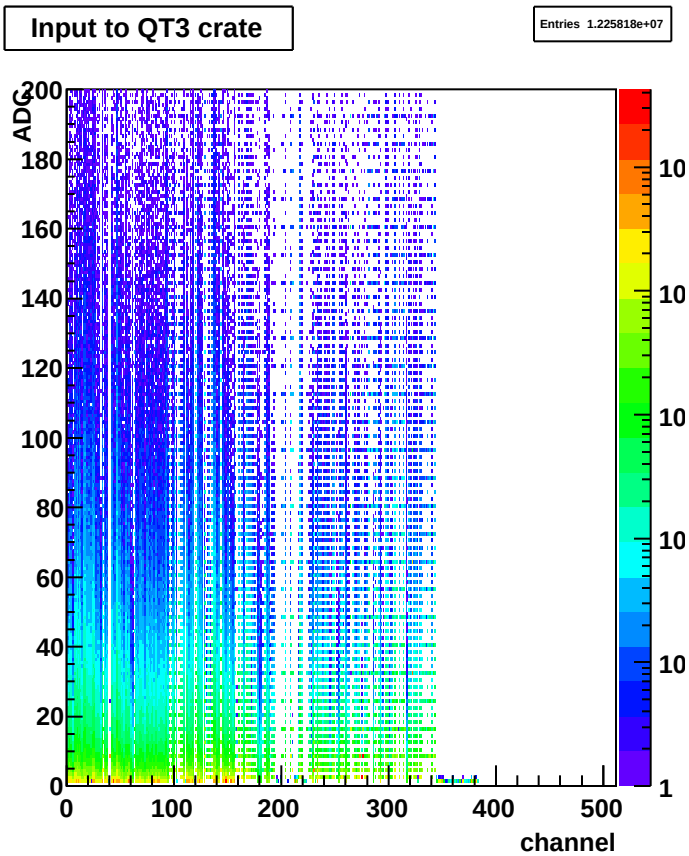

Entries 999991
BBC-S-East ADC Sum
BBC-S-West ADC Sum

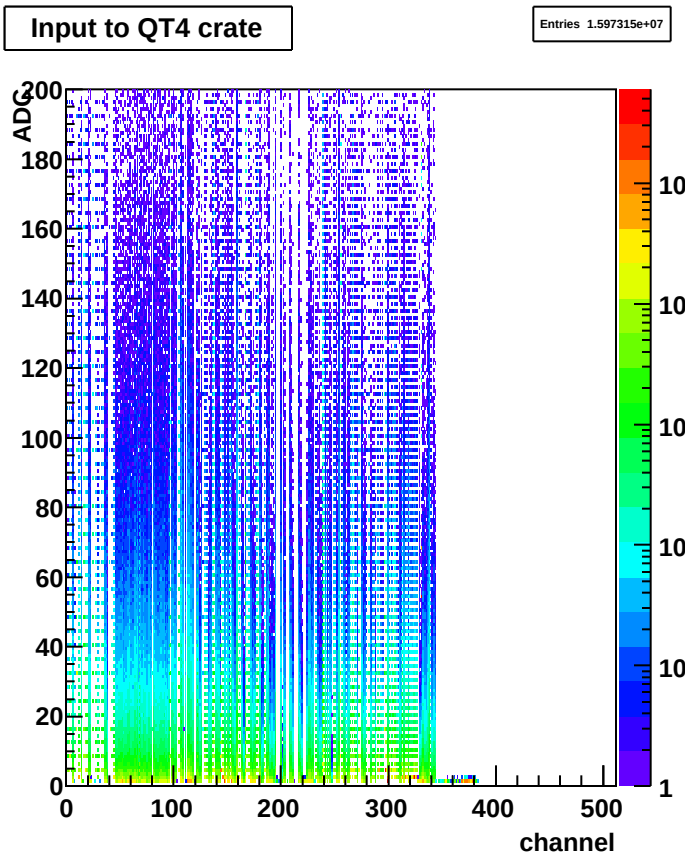

Entries 999991
ZDC East ADC Sum Att
ZDC West ADC Sum Att

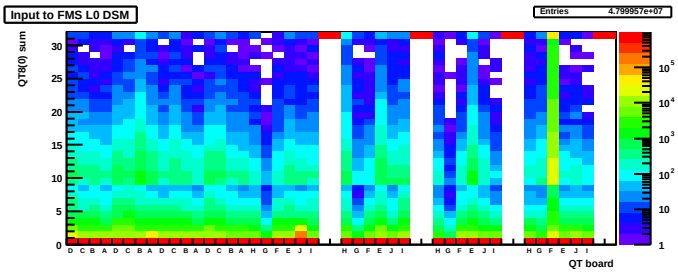

Entries 999991
BBC-L TAC Diff
BCC-S TAC Diff
Entries 999991
BBC-L TAC Diff
VPD TAC Diff
Entries 999991
BBC-L TAC Diff
ZDC TAC Diff
Entries 999991
BBC-S TAC Diff
VPD TAC Diff
Entries 999991
BBC-S TAC Diff
ZDC TAC Diff
Entries 999991
VPD TAC Diff
ZDC TAC Diff

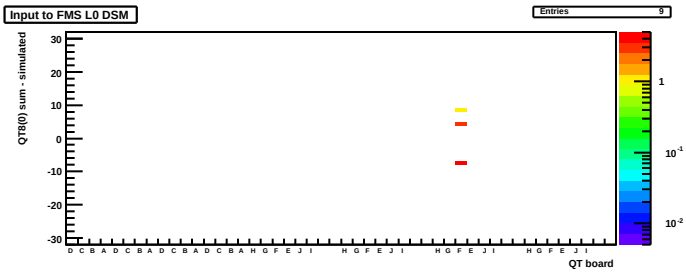

Input to QT1 crate
Entries 1.840749e+07
ADC
channel

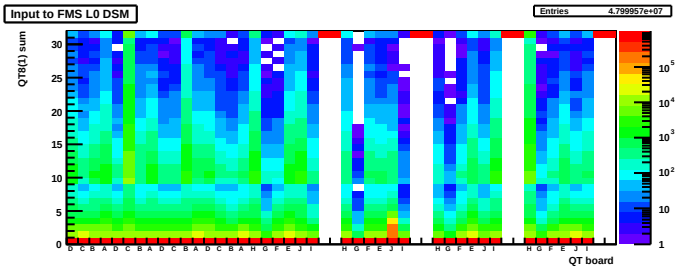

Input to QT2 crate
Entries 1.205068e+07
ADC
channel

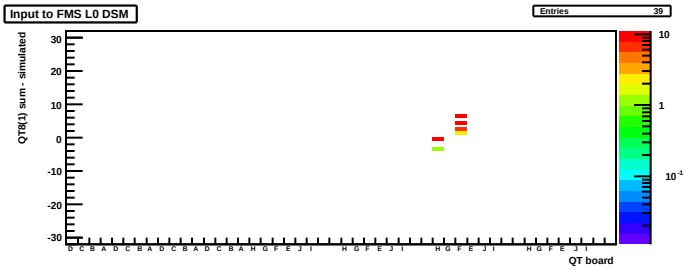

Input to QT3 crate
Entries 1.225818e+07
ADC
channel

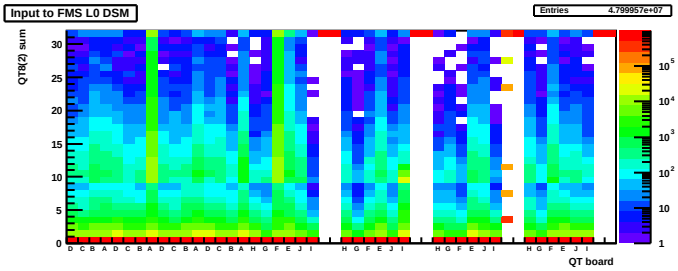

Input to QT4 crate
Entries 1.597315e+07
ADC
channel

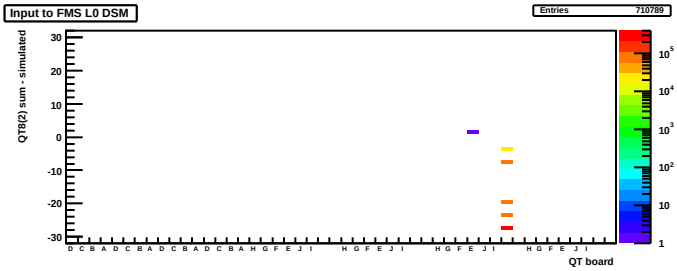

Input to FMS L0 DSM
Entries 4.799957e+07
QT8(0) sum
QT board

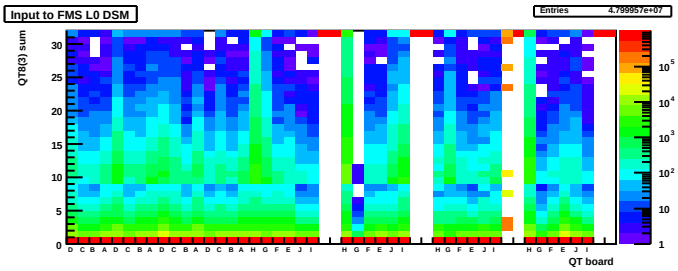

Input to FMS L0 DSM
Entries 9
QT8(0) sum - simulated
QT board

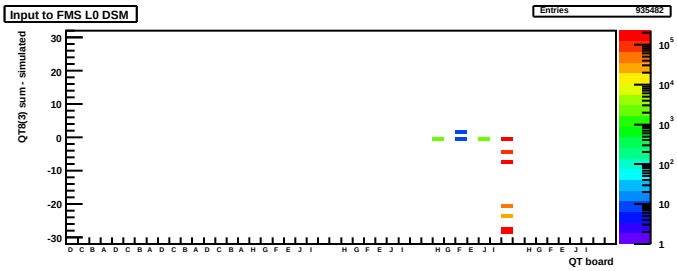

Input to FMS L0 DSM
Entries 4.799957e+07
QT8(1) sum
QT board

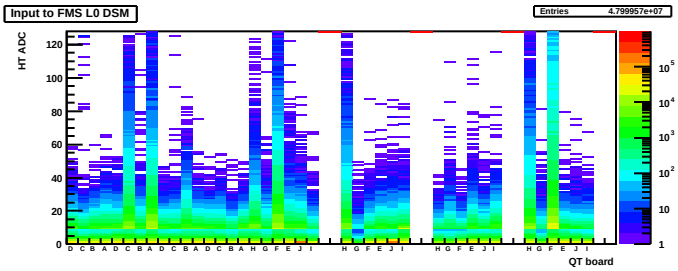

Input to FMS L0 DSM
Entries 39
QT8(1) sum - simulated
QT board

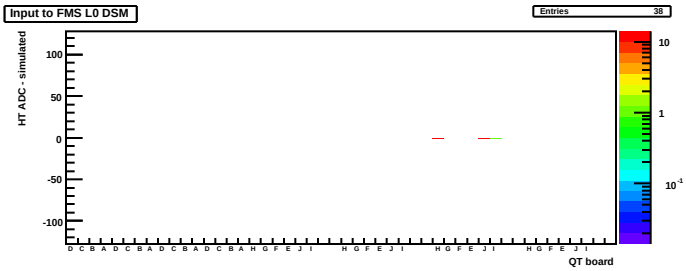

Input to FMS L0 DSM
Entries 4.799957e+07
QT8(2) sum
QT board

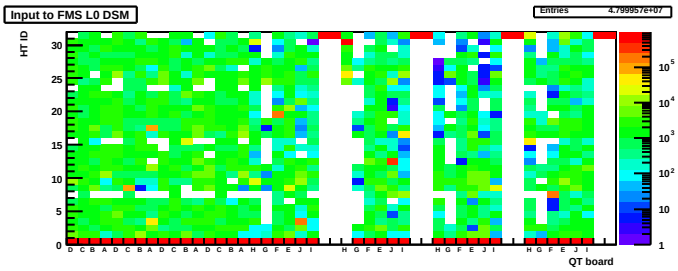

Input to FMS L0 DSM
Entries 710789
QT8(2) sum - simulated
QT board

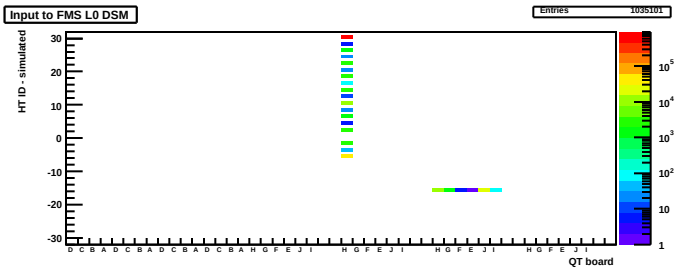

Input to FMS L0 DSM
Entries 4.799957e+07
QT8(3) sum
QT board

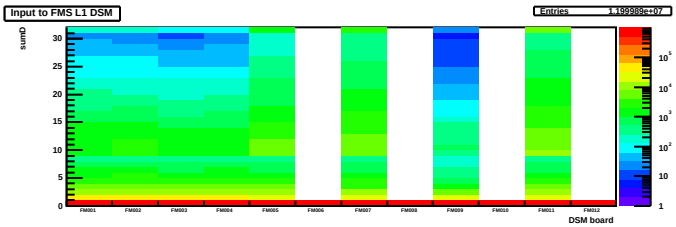

Input to FMS L0 DSM
Entries 935482
QT8(3) sum - simulated
QT board

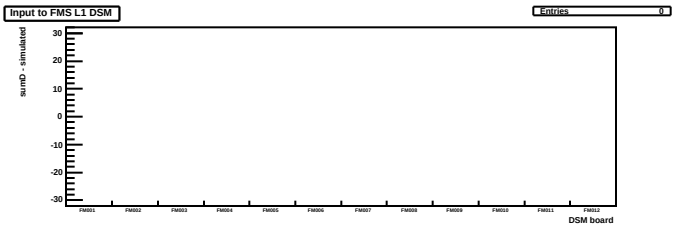

Input to FMS L0 DSM
Entries 4.799957e+07
HT ADC
QT board

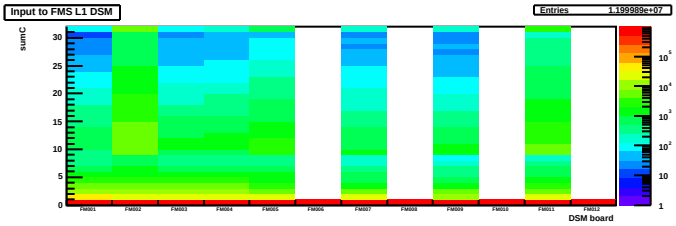

Input to FMS L0 DSM
Entries 38
HT ADC - simulated
QT board

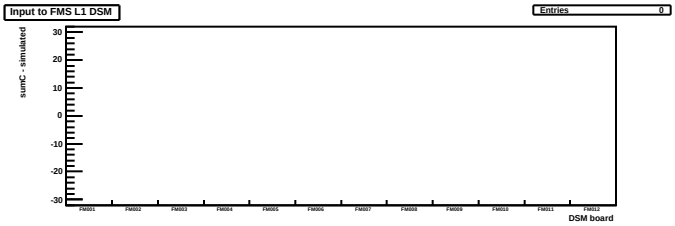

Input to FMS L0 DSM
Entries 4.799957e+07
HT ID
QT board

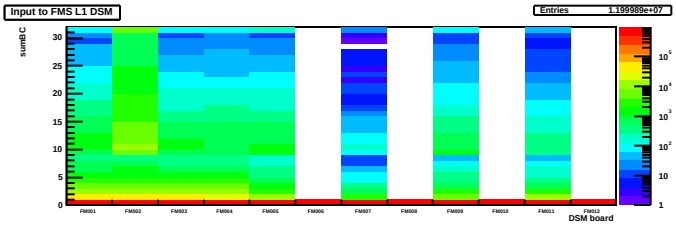

Input to FMS L0 DSM
Entries 1035101
HT ID - simulated
QT board

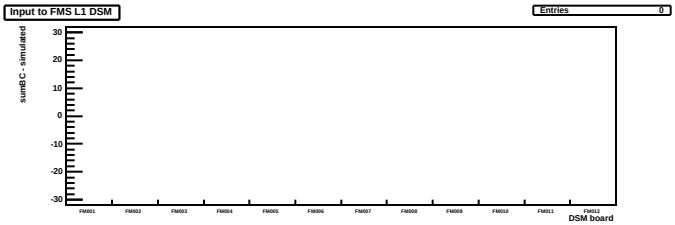

Input to FMS L1 DSM
Entries 1.199989e+07
sumD
DSM board

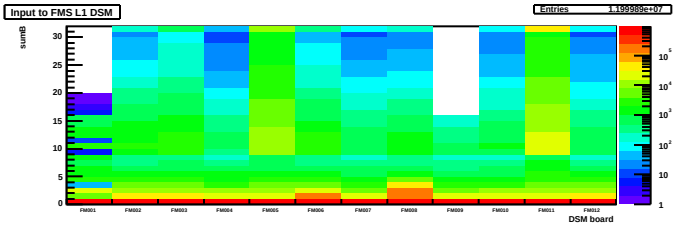

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

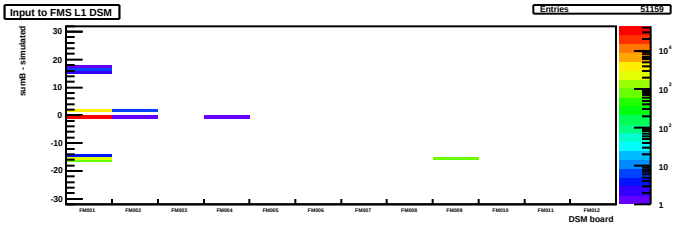

Input to FMS L1 DSM
Entries 1.199989e+07
sumC
DSM board

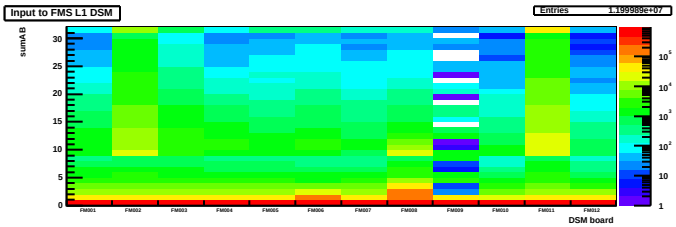

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

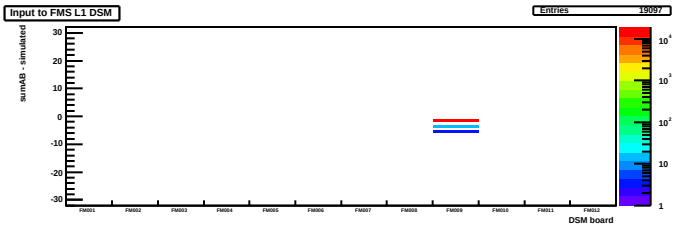

Input to FMS L1 DSM
Entries 1.199989e+07
sumBC
DSM board

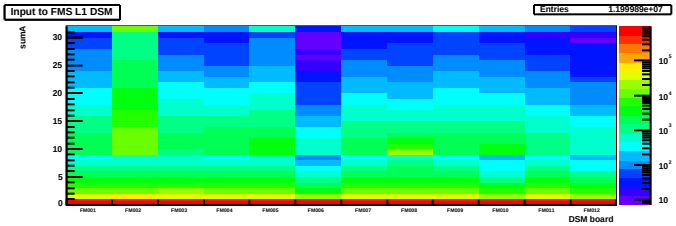

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

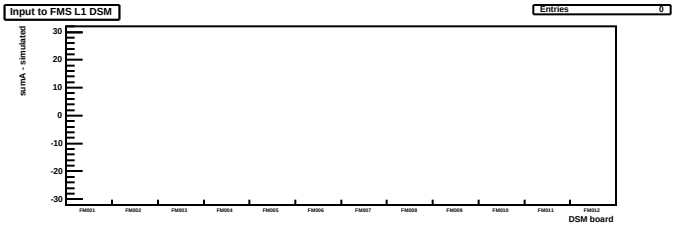

Input to FMS L1 DSM
Entries 1.199989e+07
sumB
DSM board

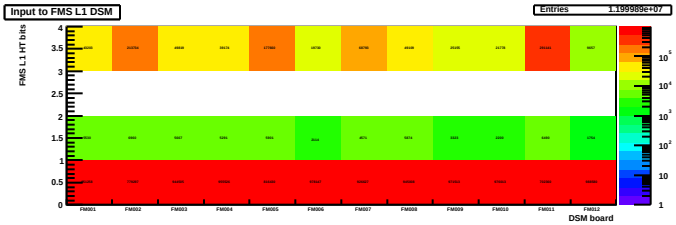

Input to FMS L1 DSM
Entries 51159
sumB - simulated
DSM board

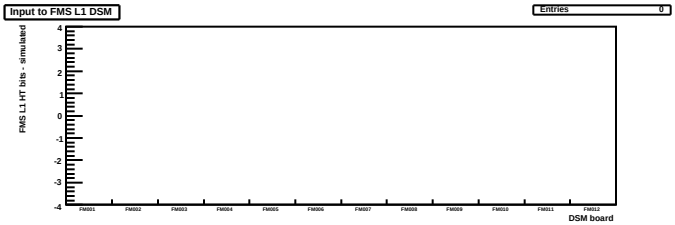

Input to FMS L1 DSM
Entries 1.199989e+07
sumAB
DSM board

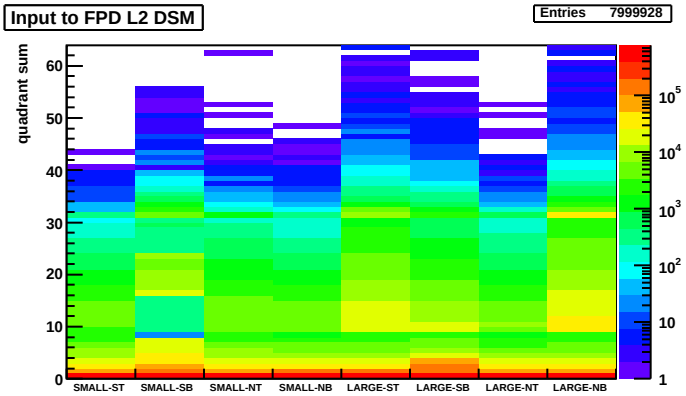

Input to FMS L1 DSM
Entries 19097
sumAB - simulated
DSM board

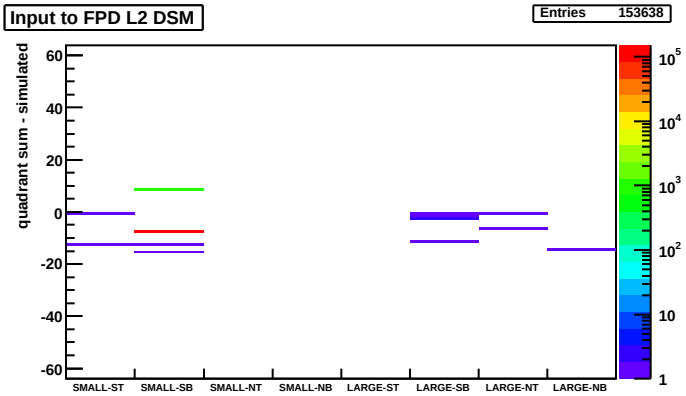

Input to FMS L1 DSM
Entries 1.199989e+07
sumA
DSM board

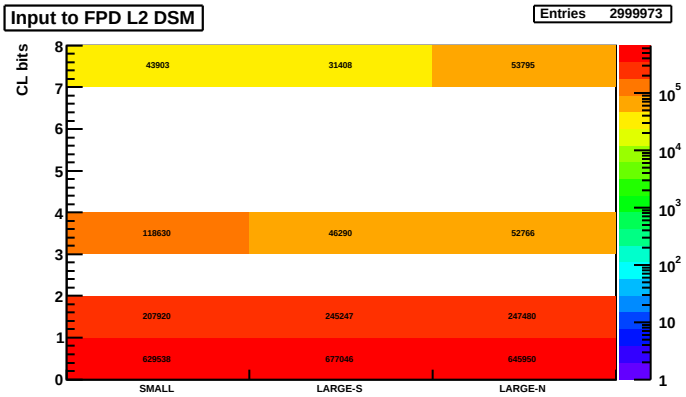

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

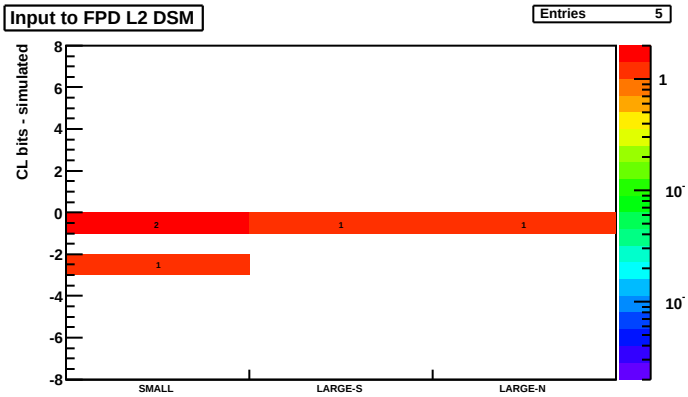

Input to FMS L1 DSM
Entries 1.199989e+07
FMS L1 HT bits
DSM board

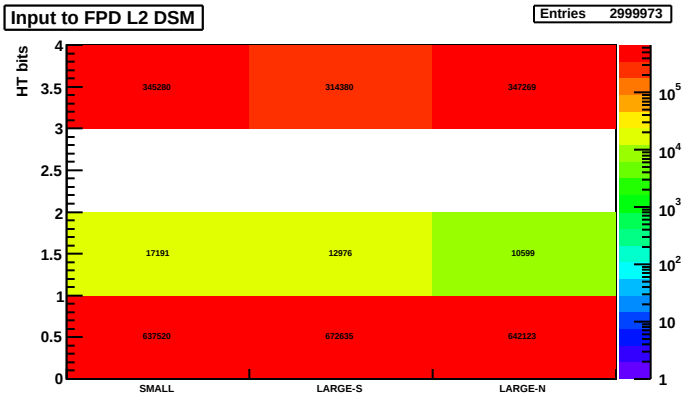

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

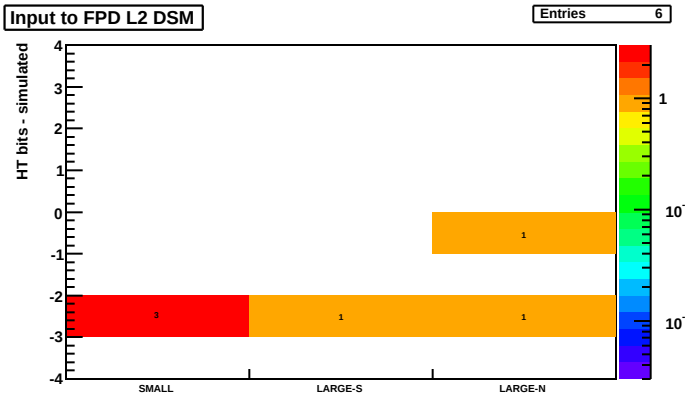

Input to FPD L2 DSM
Entries 7999928
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

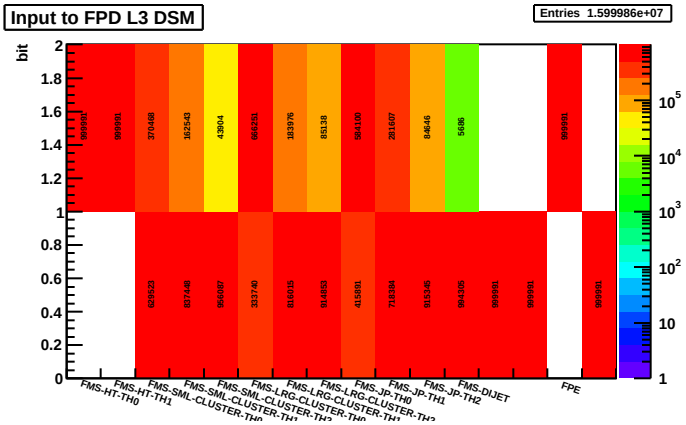

Input to FPD L2 DSM
Entries 153638
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

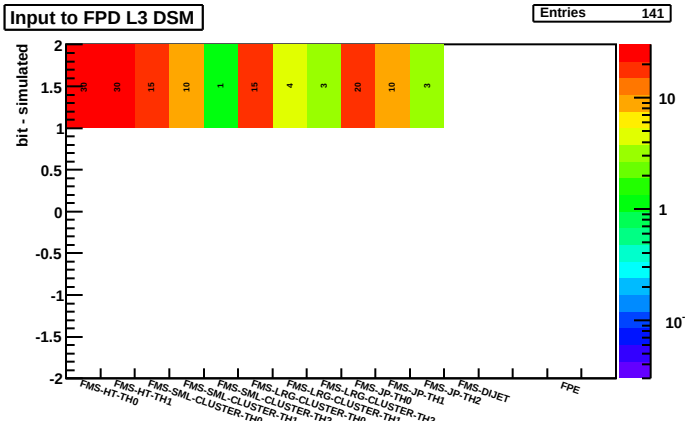

Input to FPD L2 DSM
Entries 2999973
CL bits
43903
31408
53795
118630
46290
52766
207920
245247
247480
629538
677046
645950
SMALL
LARGE-S
LARGE-N

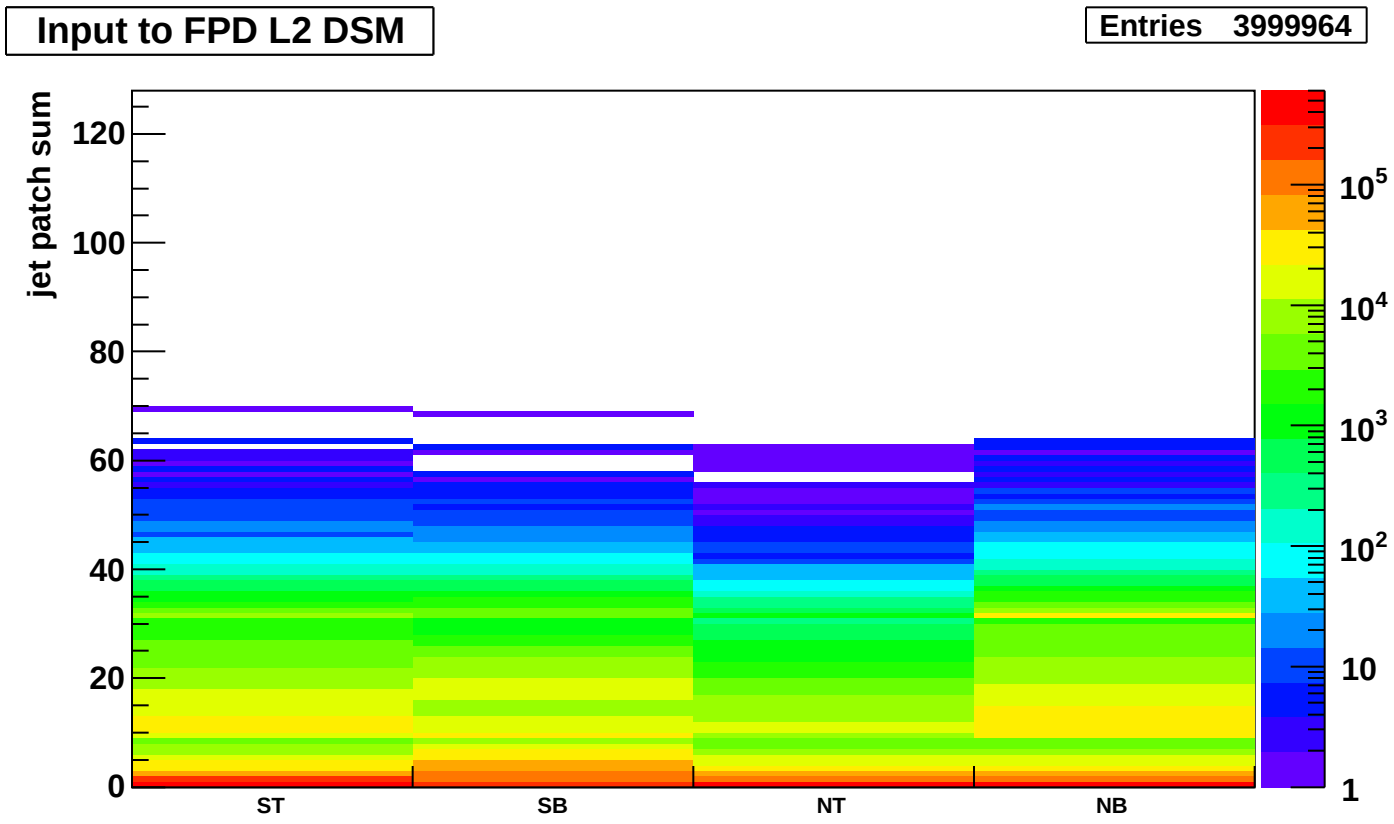

Input to FPD L2 DSM
Entries 5
CL bits - simulated
2
1
1
1
SMALL
LARGE-S
LARGE-N

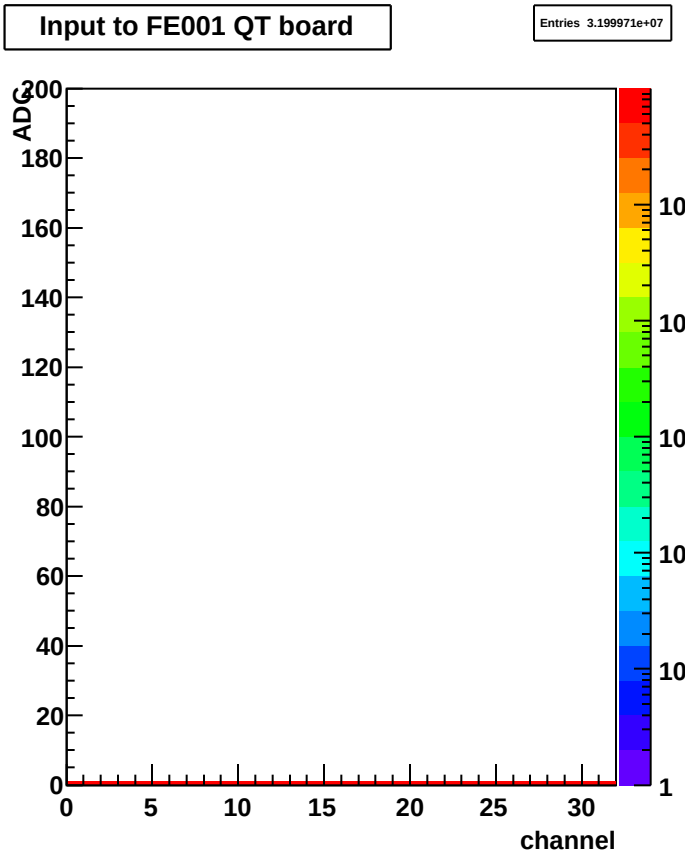

Input to FPD L2 DSM
Entries 2999973
HT bits
345280
314380
347269
17191
12976
10599
637520
672635
642123
SMALL
LARGE-S
LARGE-N

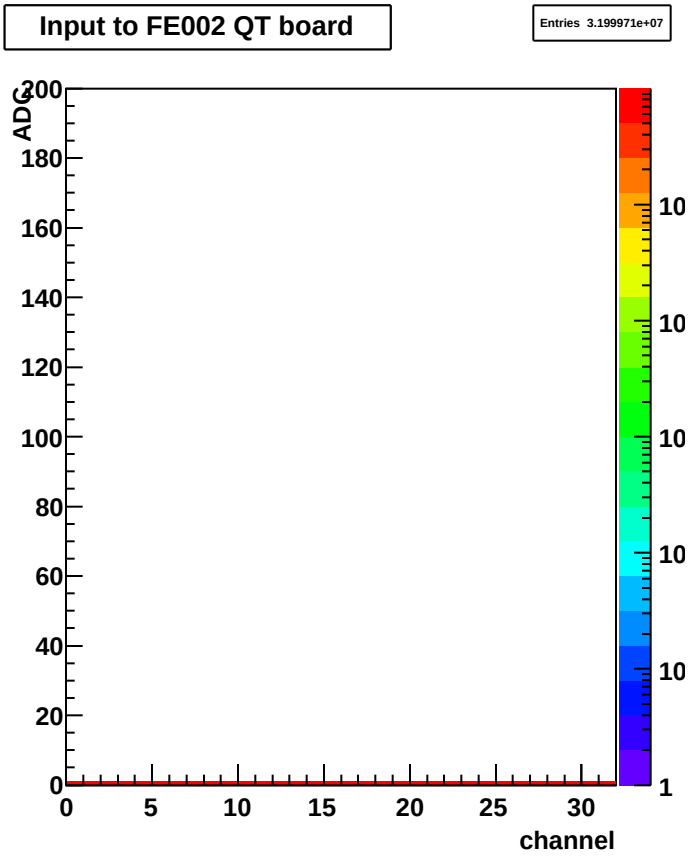

Input to FPD L2 DSM
Entries 6
HT bits - simulated
1
3
1
1
SMALL
LARGE-S
LARGE-N

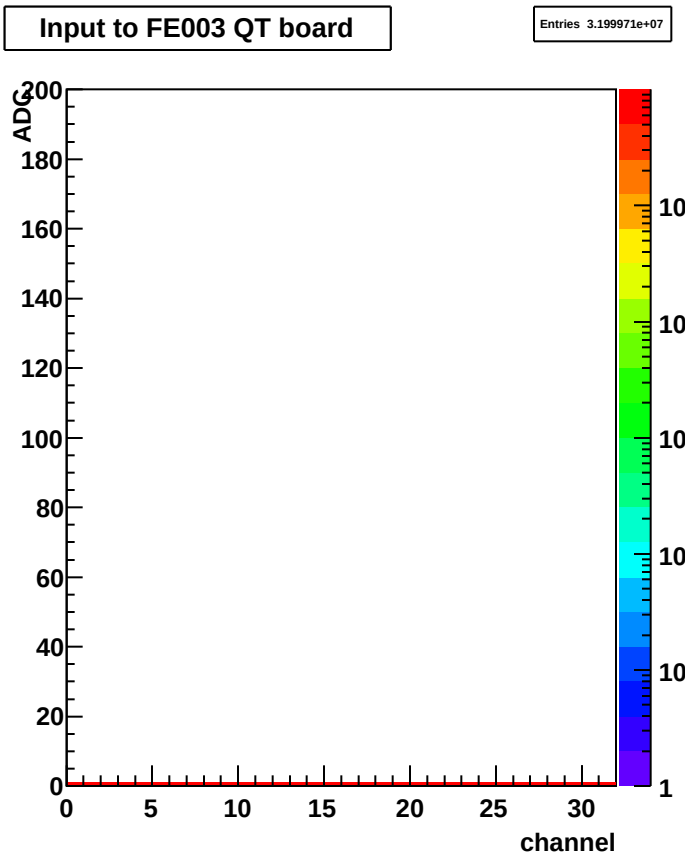

Input to FPD L3 DSM
Entries 1.599986e+07
bit
999991
999991
370468
162543
43904
666231
183976
85138
584100
281607
84646
5686
999991
629523
837448
956087
333740
816015
914853
415691
718384
915345
984305
999991
999991
999991
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

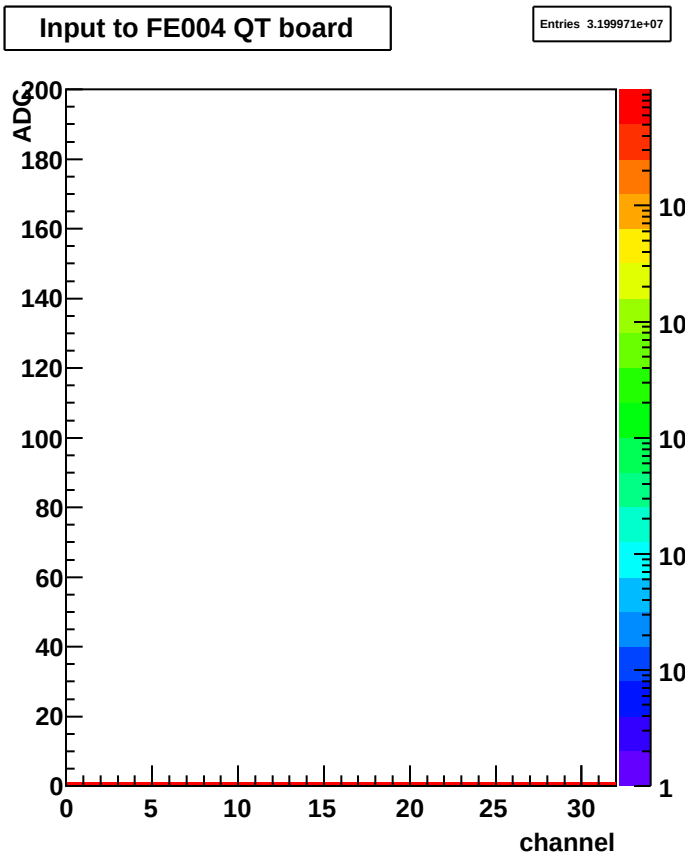

Input to FPD L3 DSM
Entries 141
bit - simulated
30
30
15
10
1
15
4
3
20
10
3
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

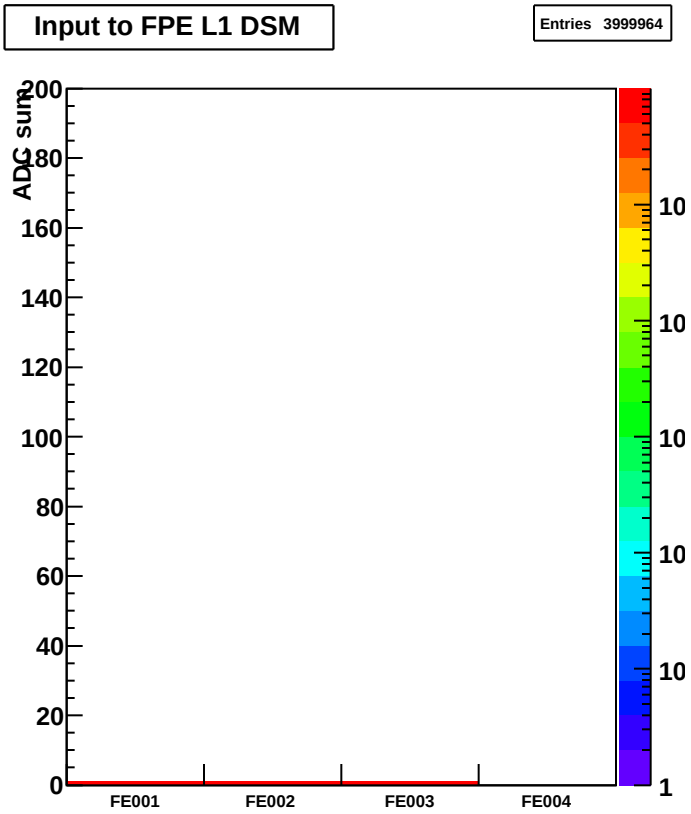

Input to FPD L2 DSM
Entries 3999964
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
$10^2$
$10^3$
$10^4$
$10^5$

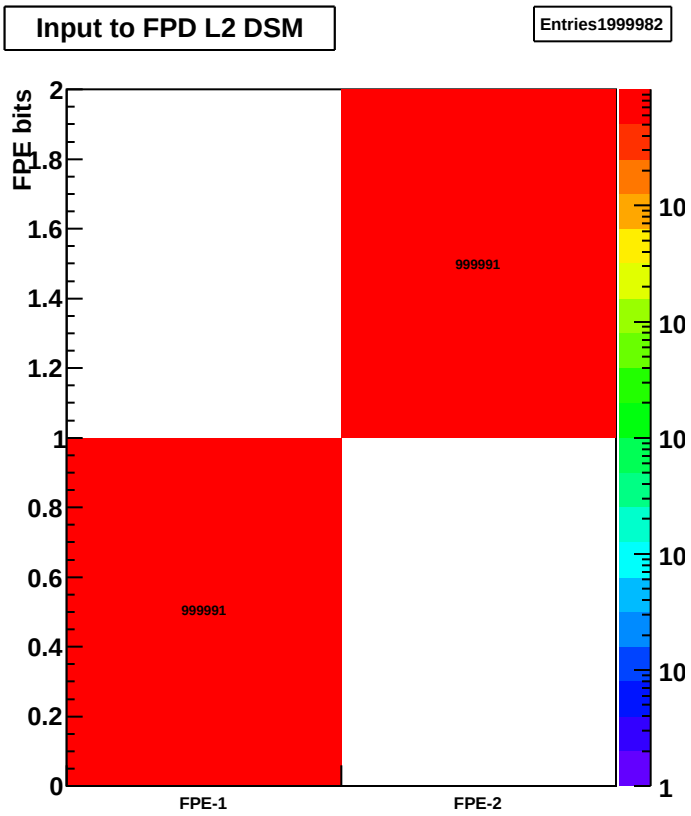

Input to FE001 QT board
Entries 3.199971e+07
ADC
channel

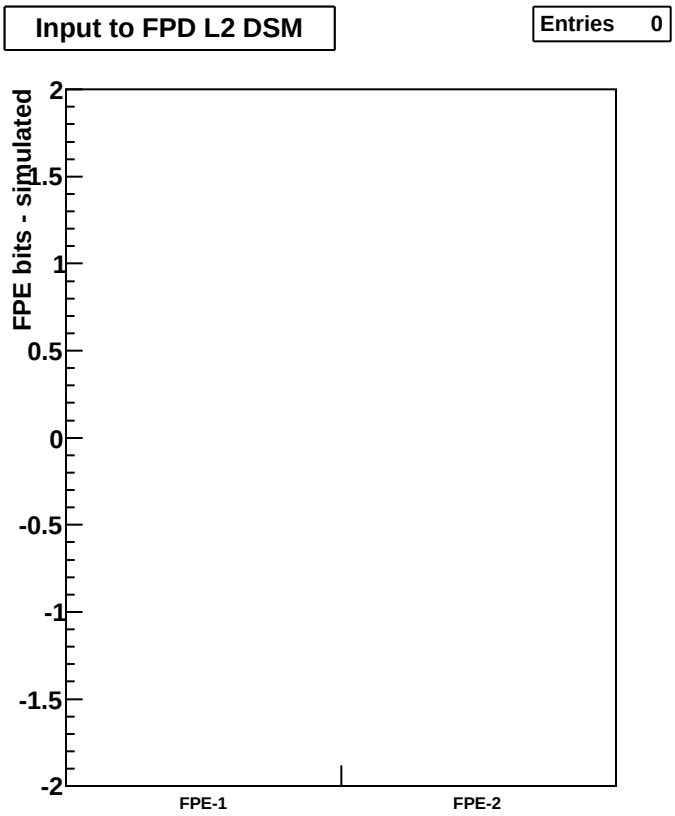

Input to FE002 QT board
Entries 3.199971e+07
ADC
channel


Input to FE003 QT board
Entries 3.199971e+07
ADC
channel


Input to FE004 QT board
Entries 3.199971e+07
ADC
channel


Input to FPE L1 DSM
Entries 3999964
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
Entries1999982
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
999991
999991
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