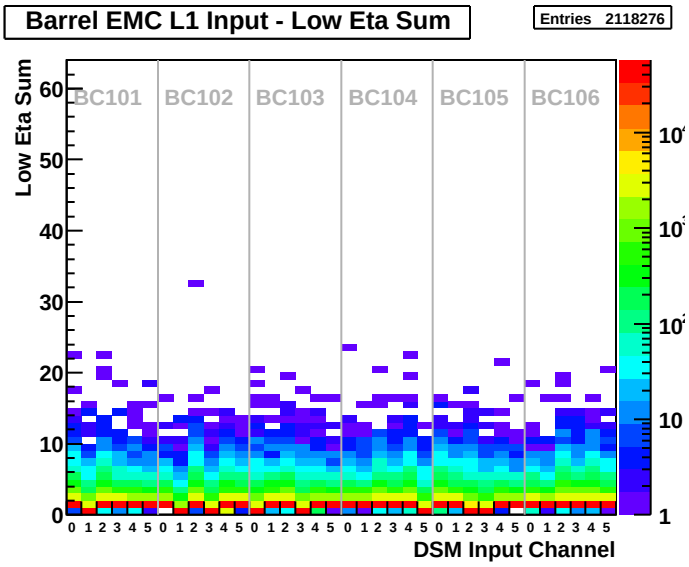
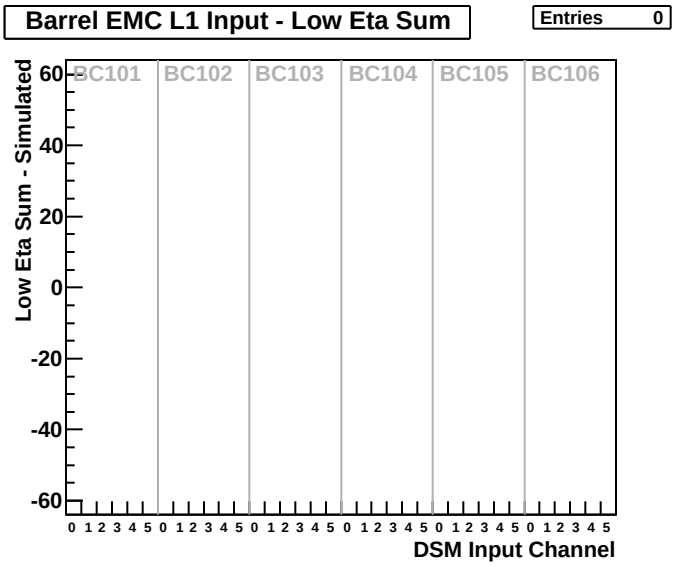
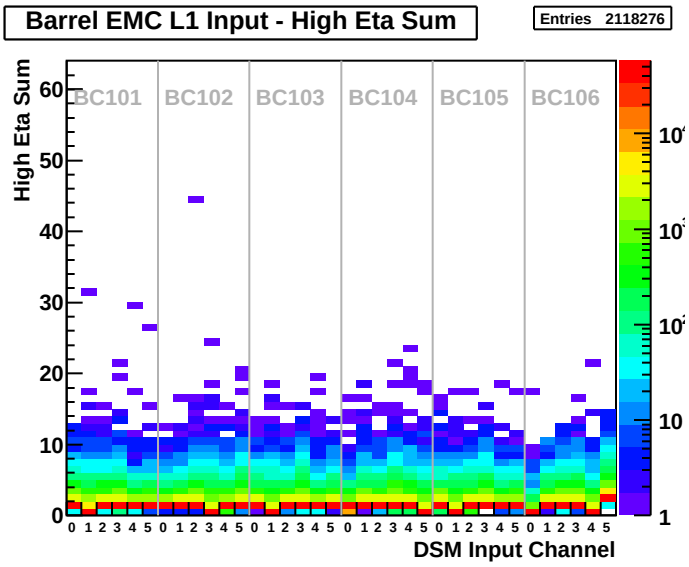
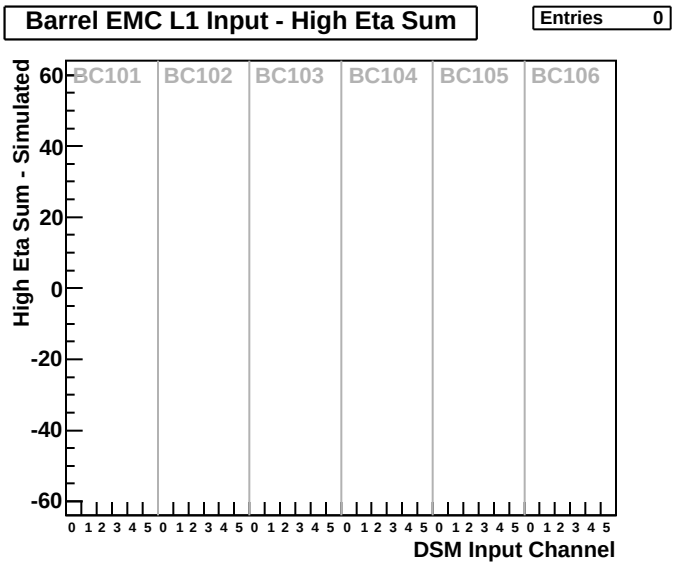
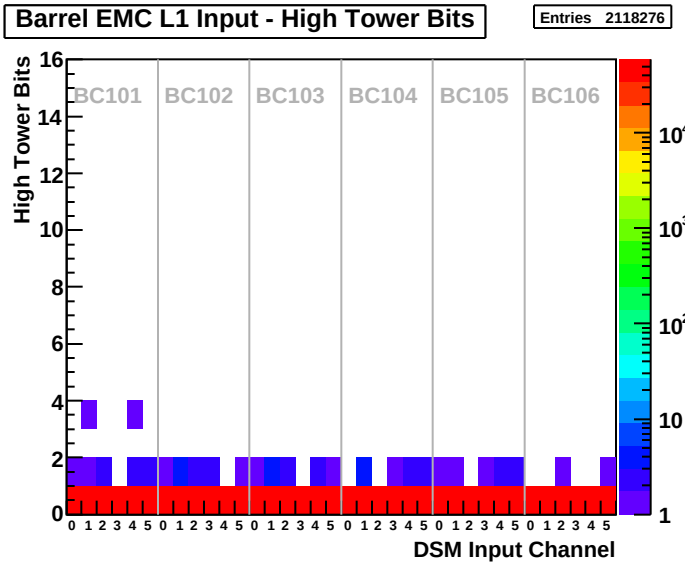
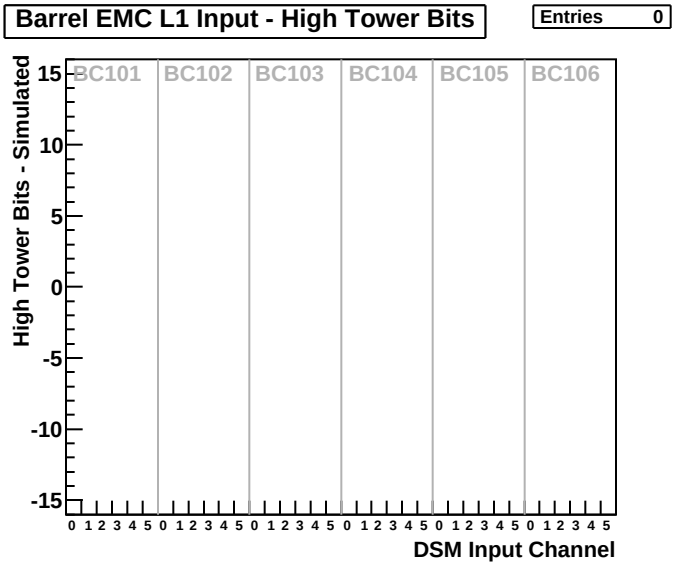

Barrel EMC L1 Input - Low Eta Sum
Entries 2118276
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

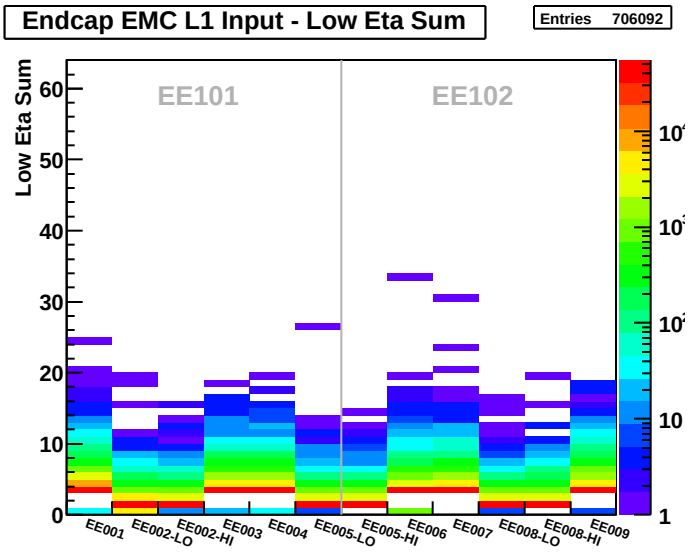

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

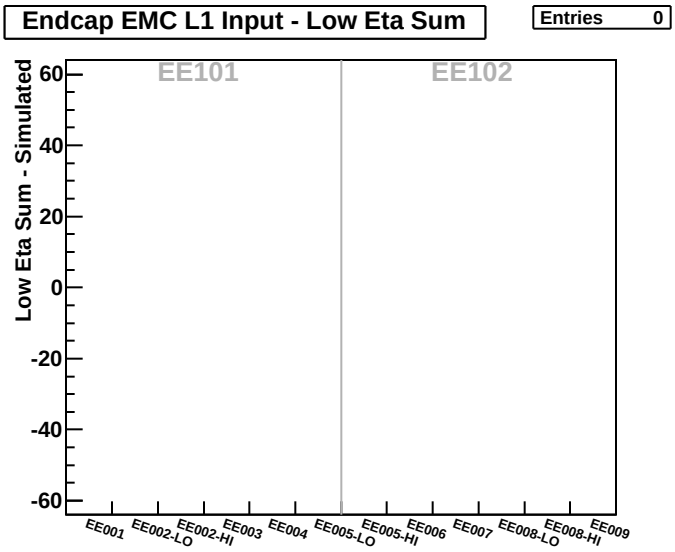

Barrel EMC L1 Input - High Eta Sum
Entries 2118276
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

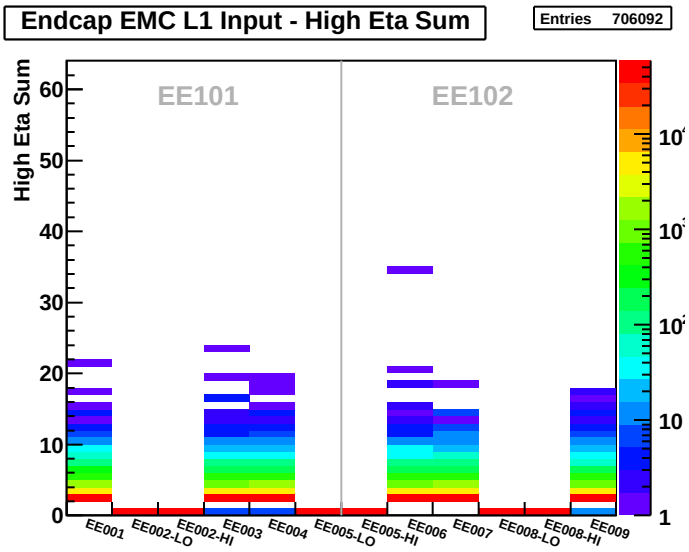

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

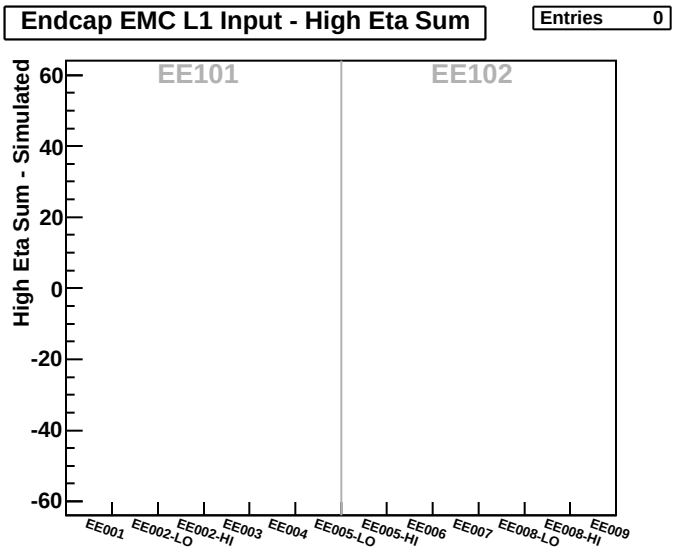

Barrel EMC L1 Input - High Tower Bits
Entries 2118276
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

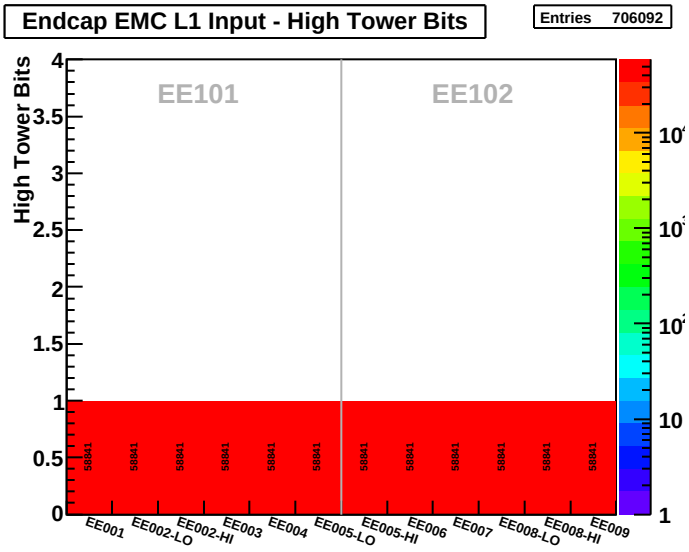

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

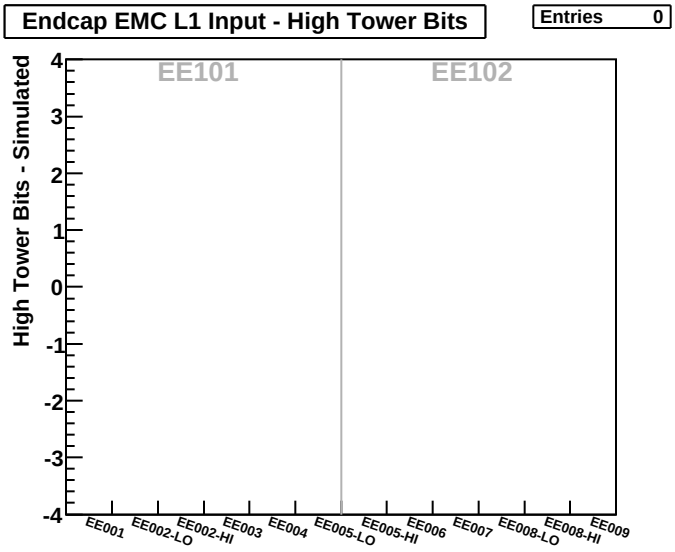

Endcap EMC L1 Input - Low Eta Sum
Entries 706092
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

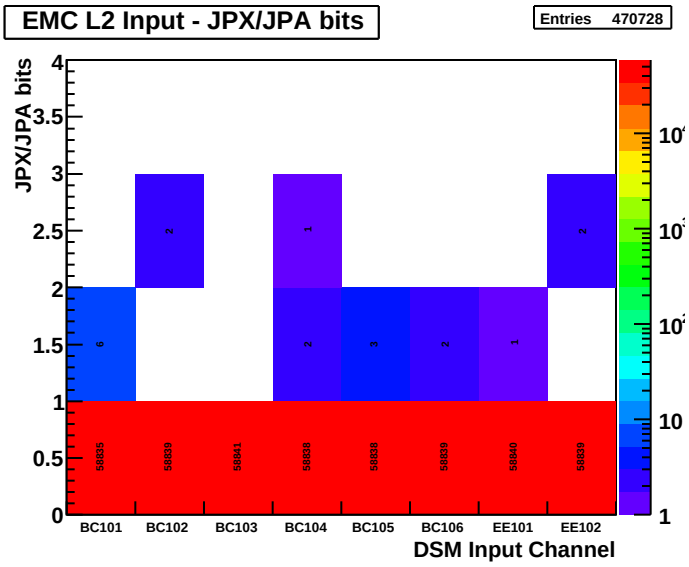

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

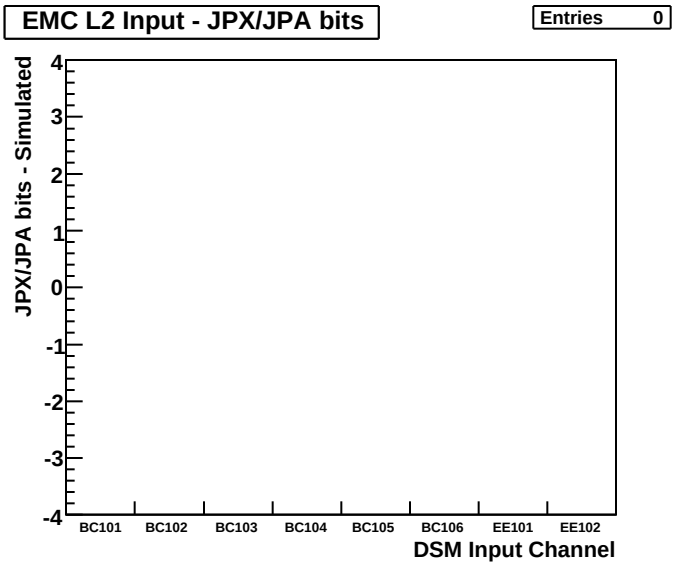

Endcap EMC L1 Input - High Eta Sum
Entries 706092
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

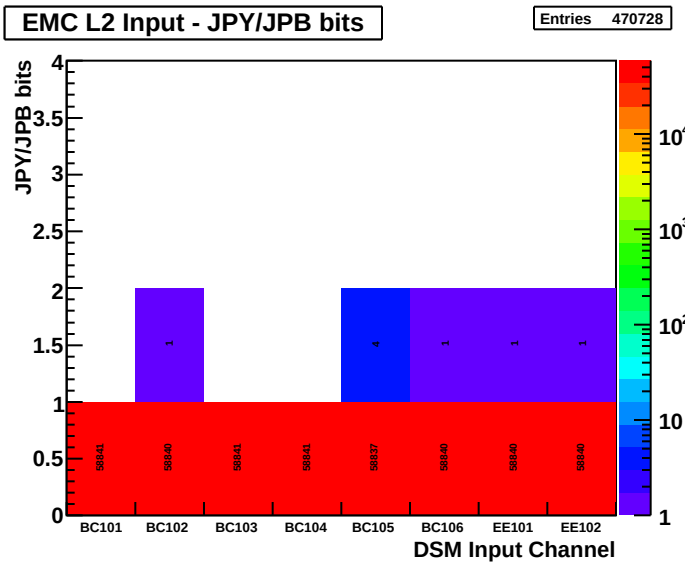

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

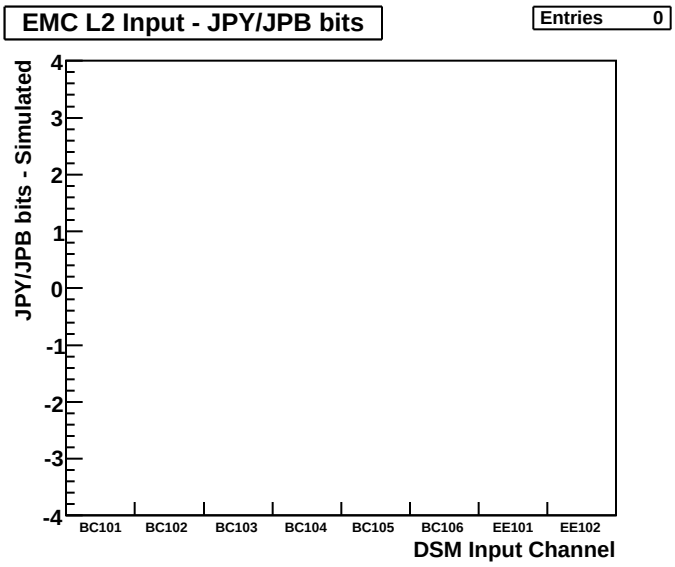

Endcap EMC L1 Input - High Tower Bits
Entries 706092
High Tower Bits
EE101
EE102
58941
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

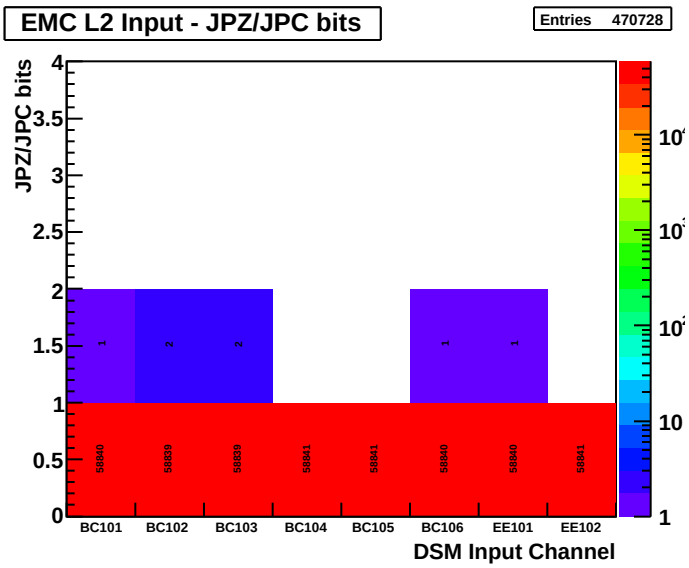

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

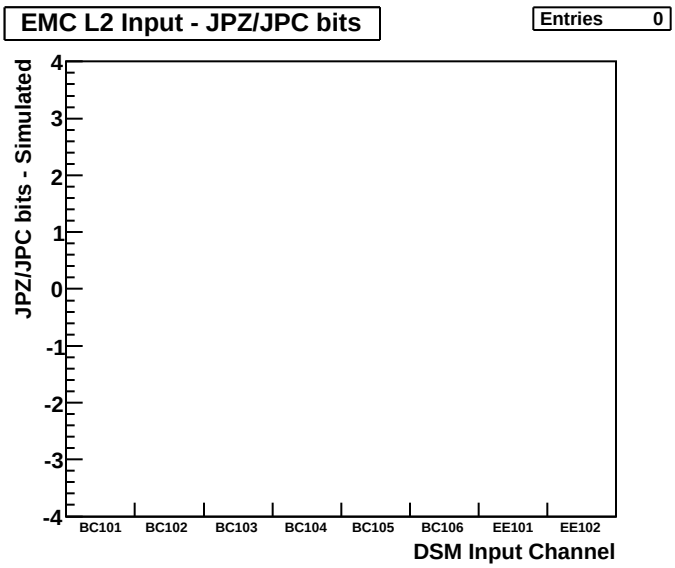

EMC L2 Input - JPX/JPA bits
Entries 470728
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

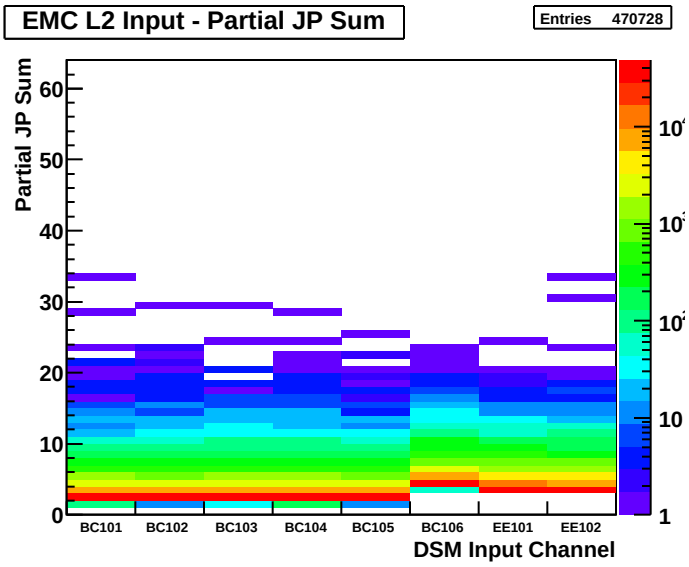

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

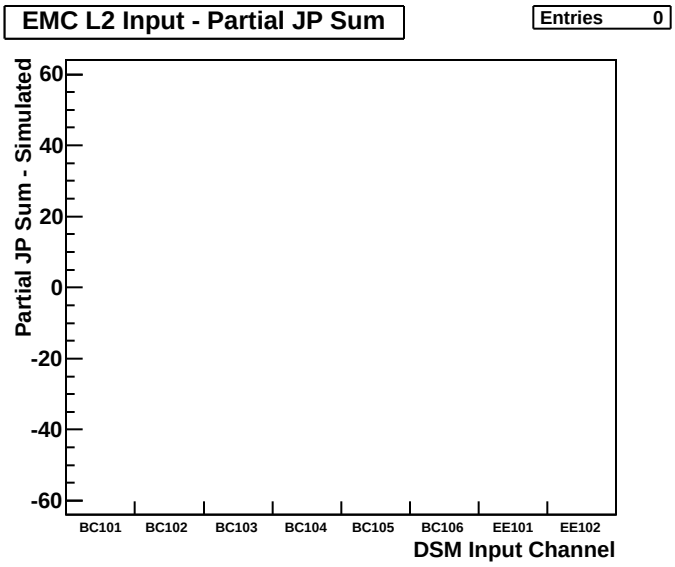

EMC L2 Input - JPY/JPB bits
Entries 470728
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

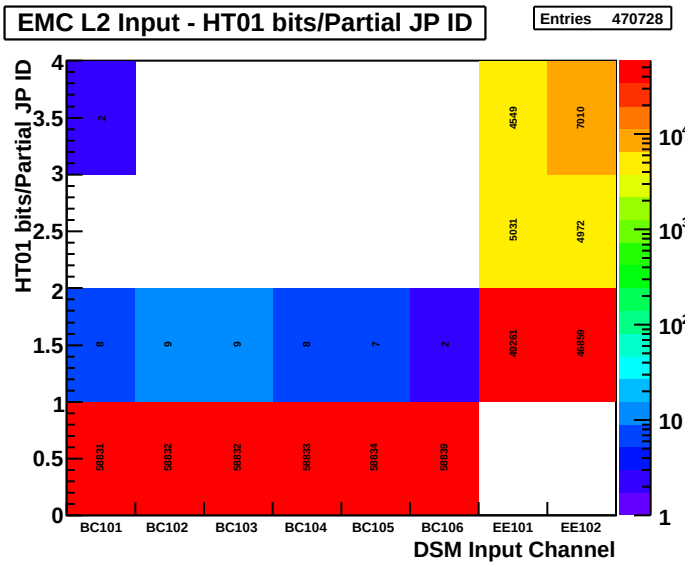

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

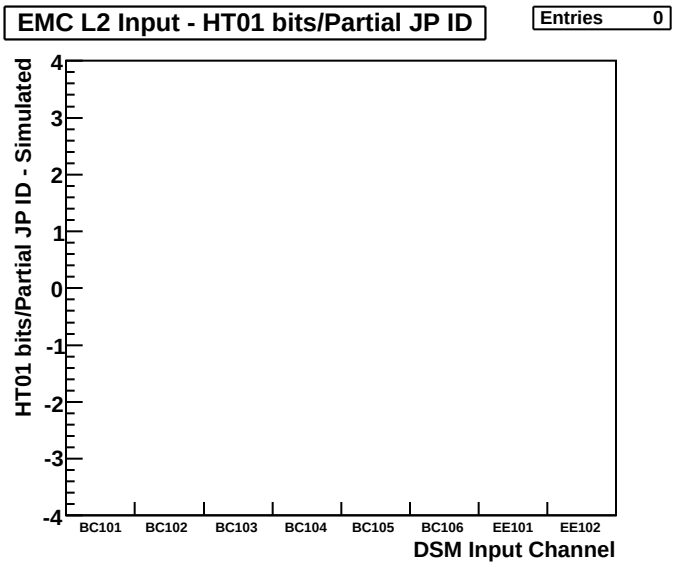

EMC L2 Input - JPZ/JPC bits
Entries 470728
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

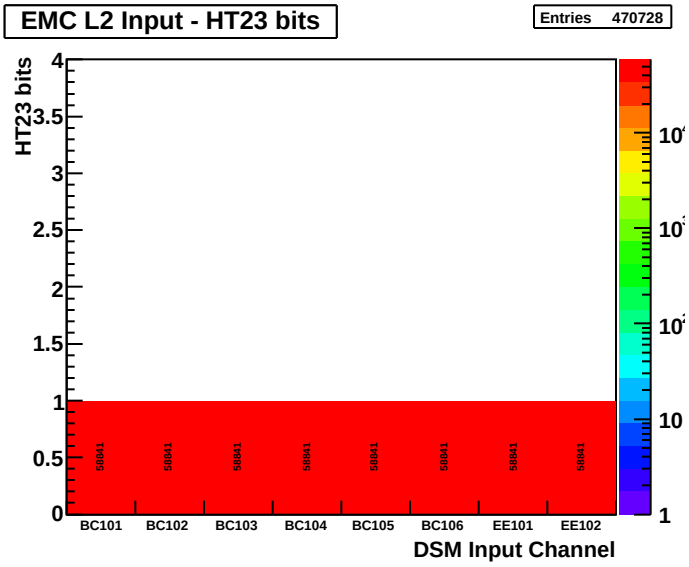

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

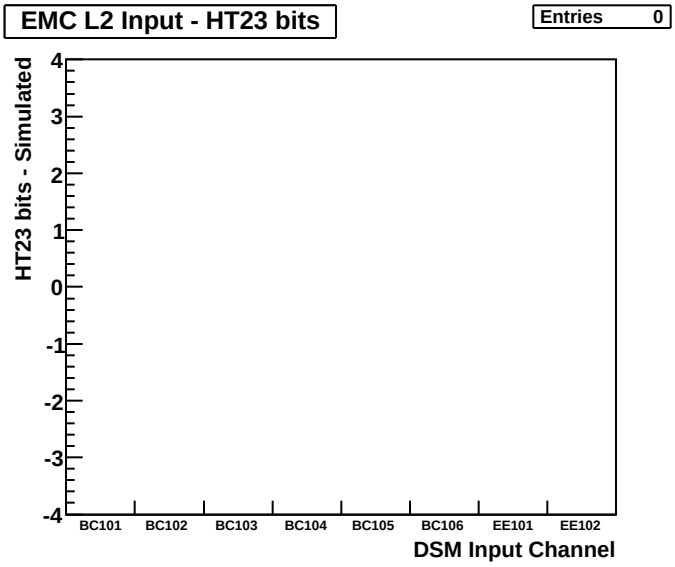

EMC L2 Input - Partial JP Sum
Entries 470728
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

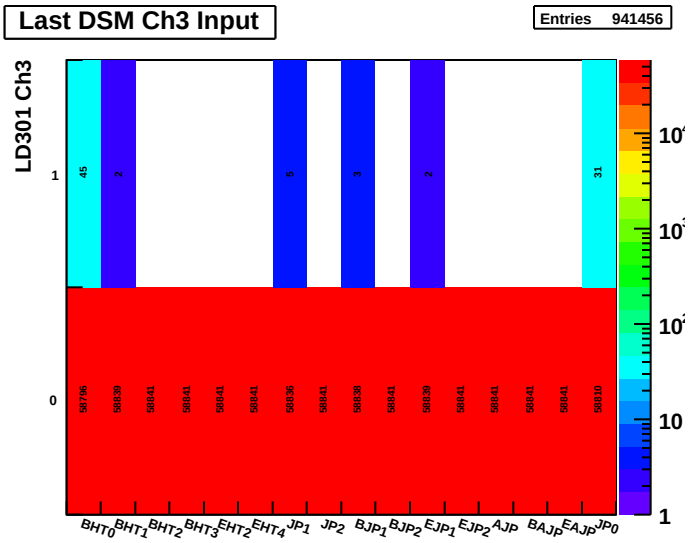

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

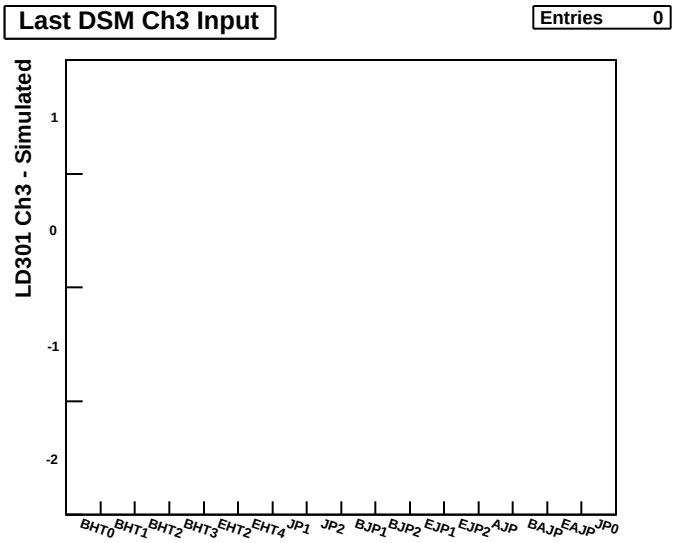

EMC L2 Input - HT01 bits/Partial JP ID
Entries 470728
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

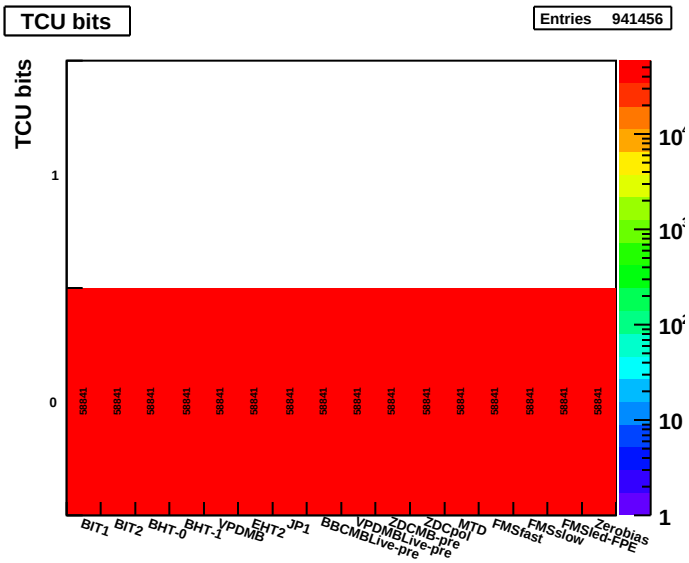

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

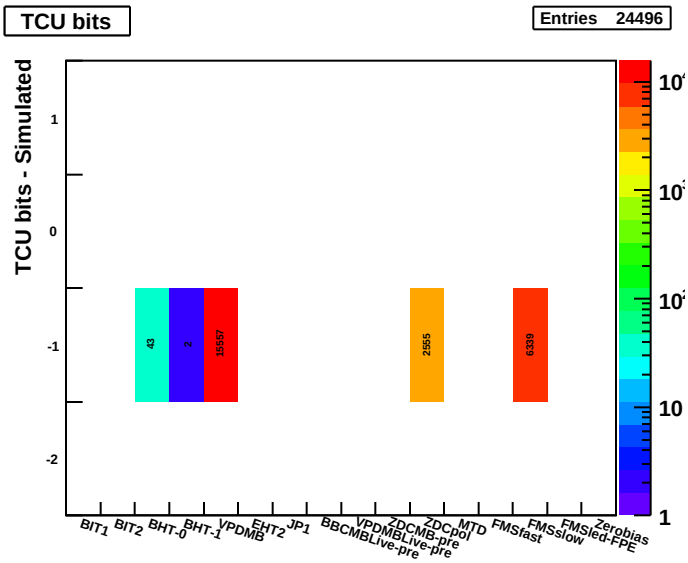

EMC L2 Input - HT23 bits
Entries 470728
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

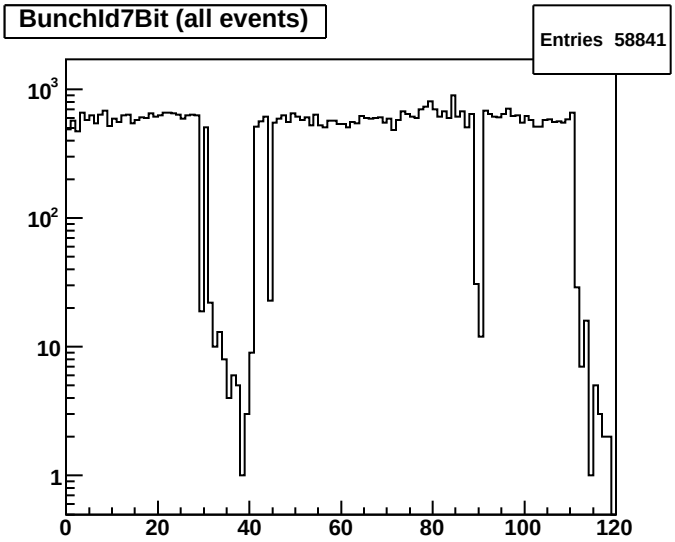

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

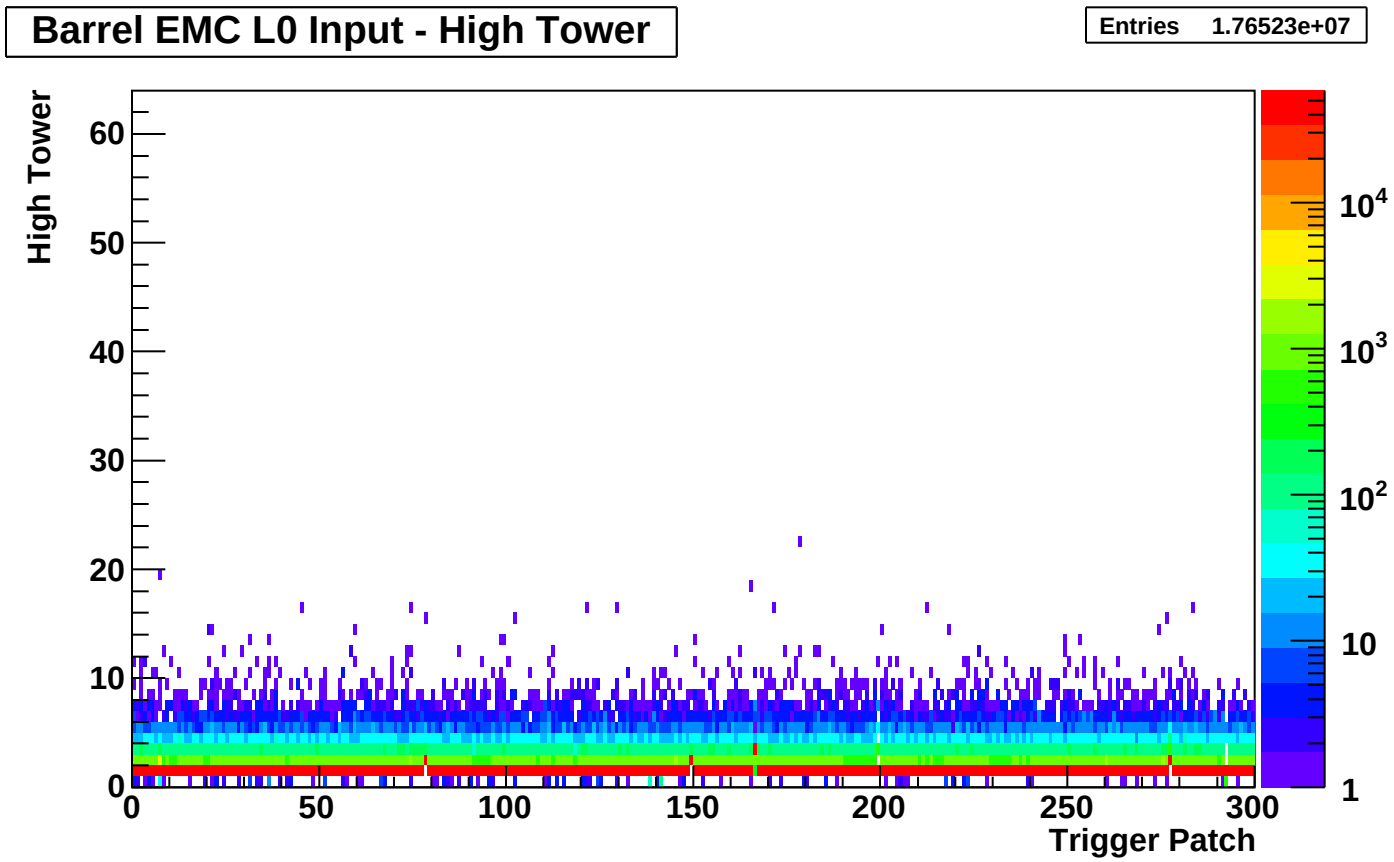

Last DSM Ch3 Input
Entries 941456
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

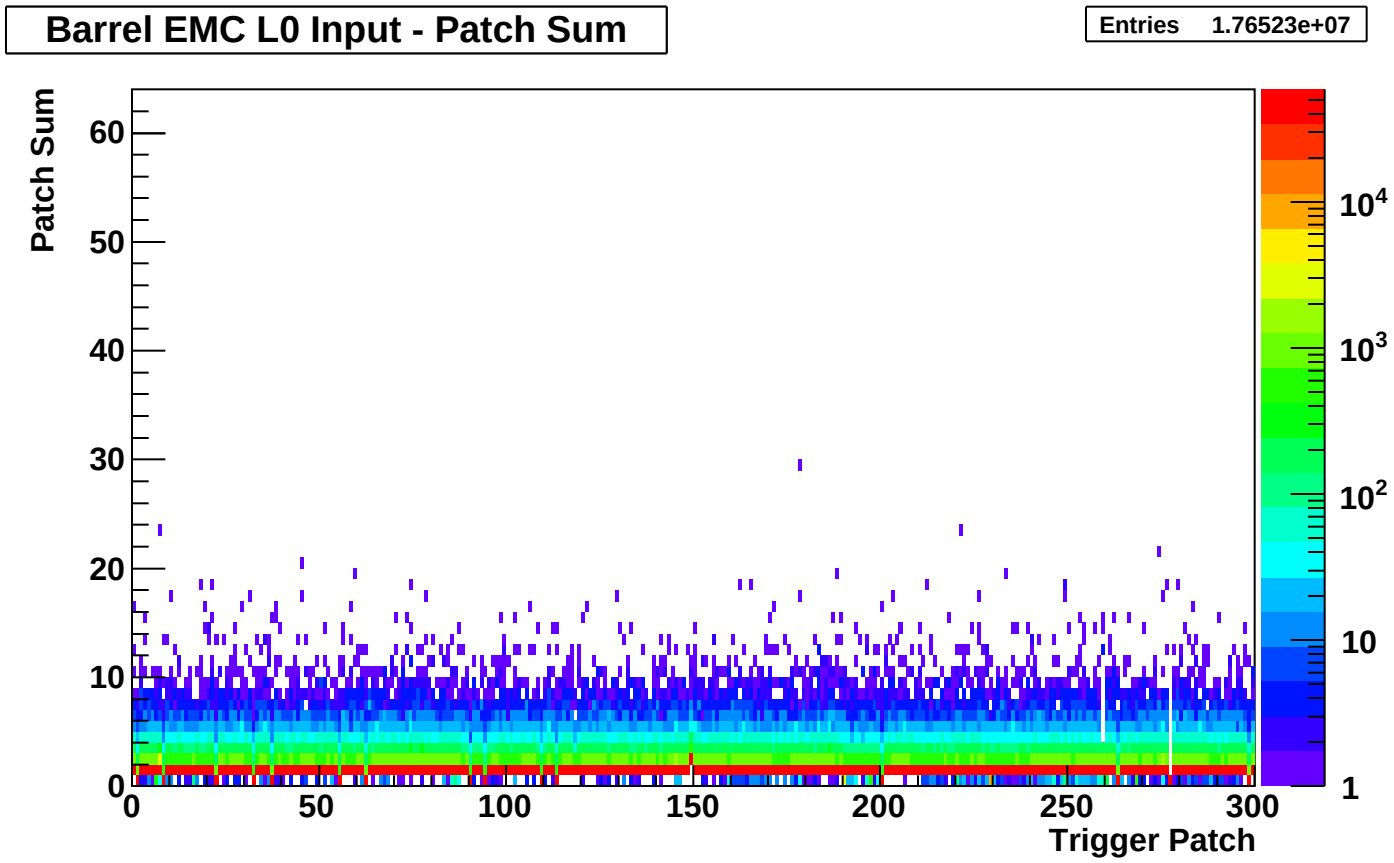

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

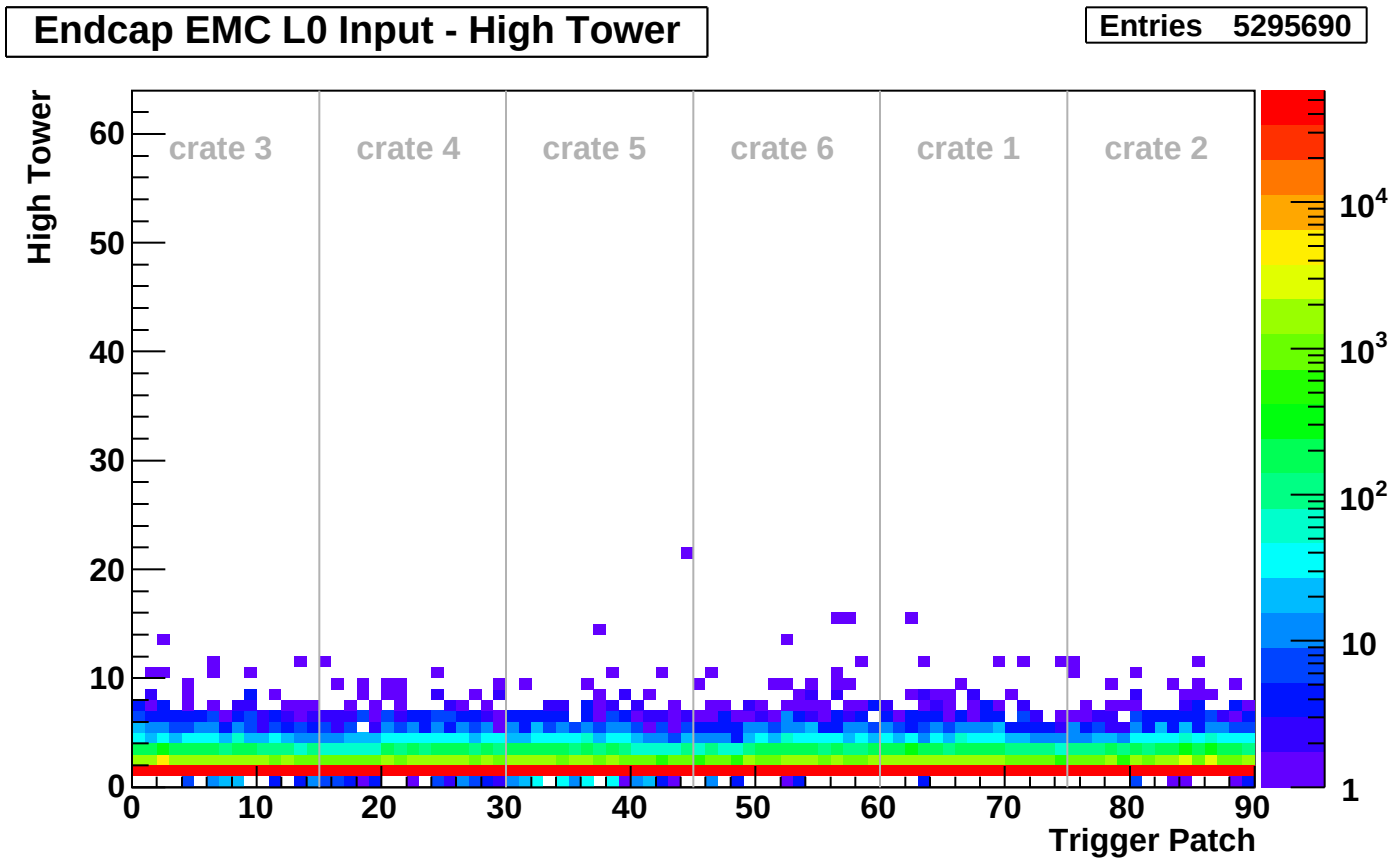

TCU bits
Entries 941456
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

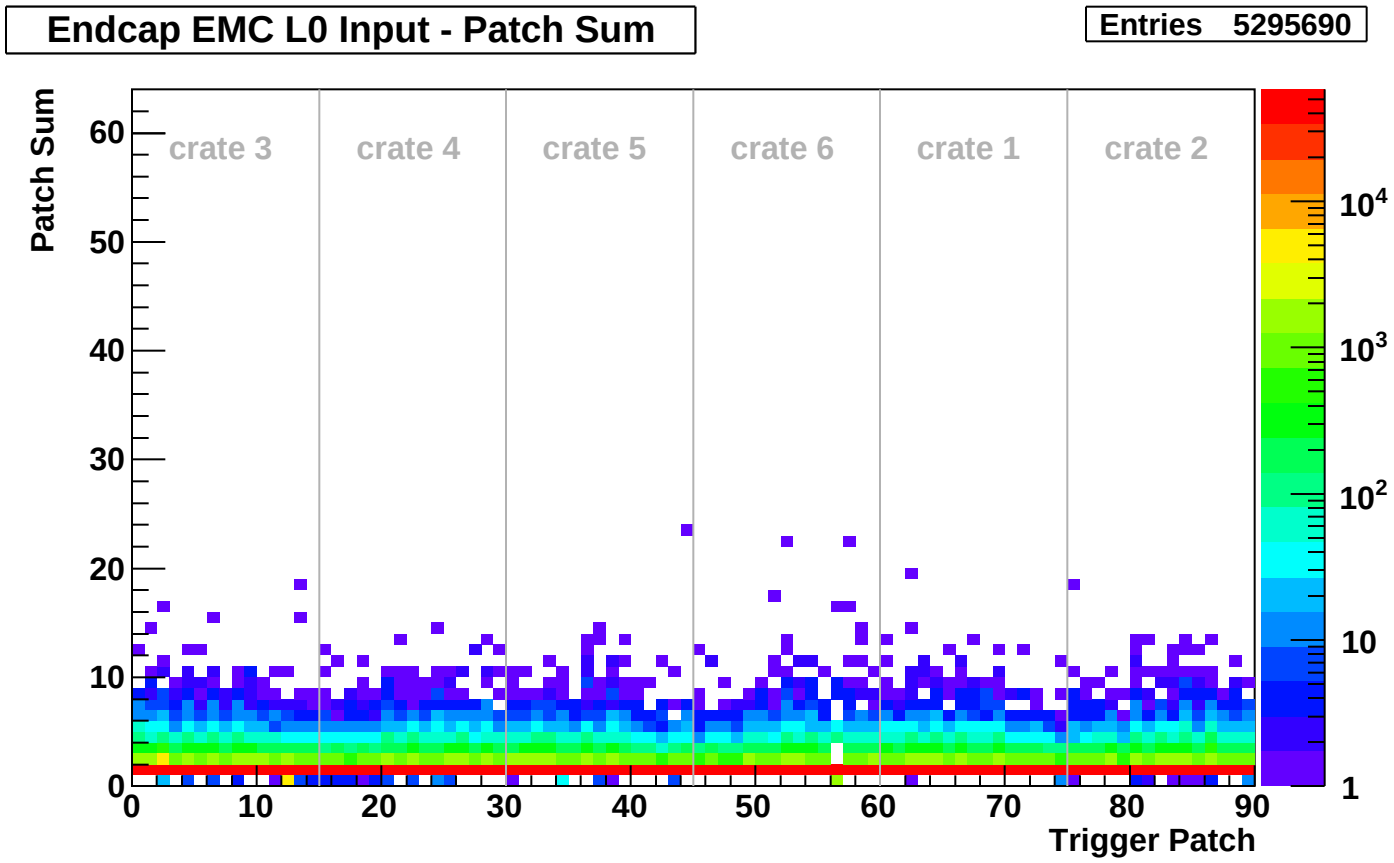

TCU bits
Entries 24496
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

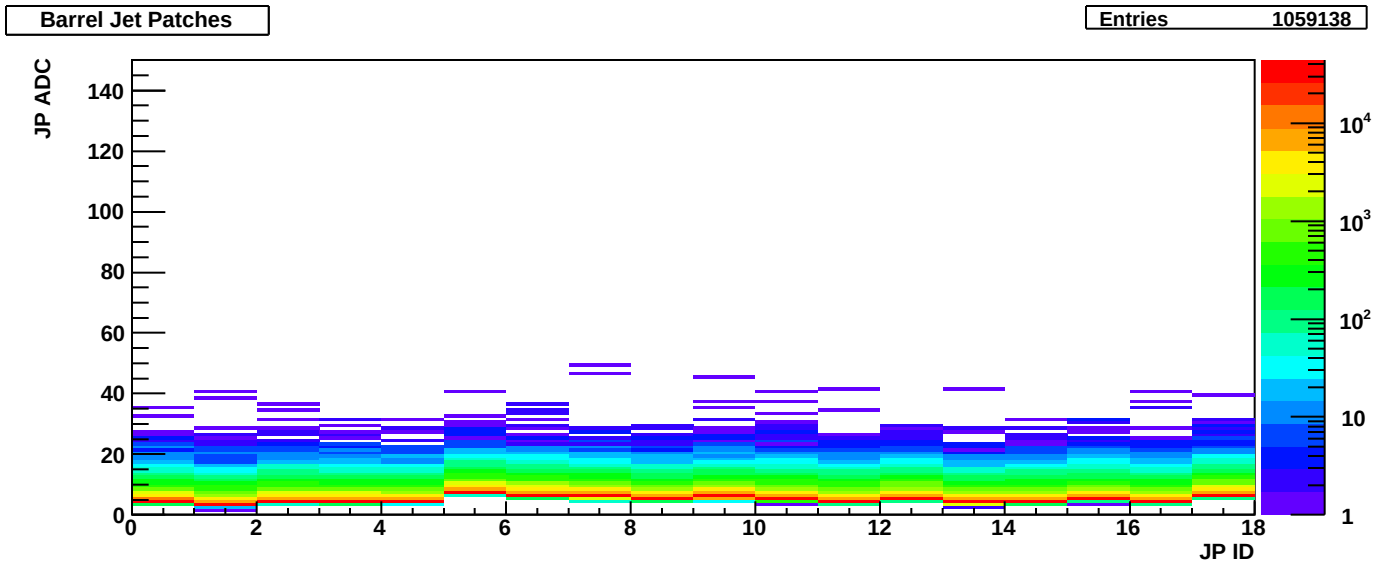

BunchId7Bit (all events)
Entries 58841

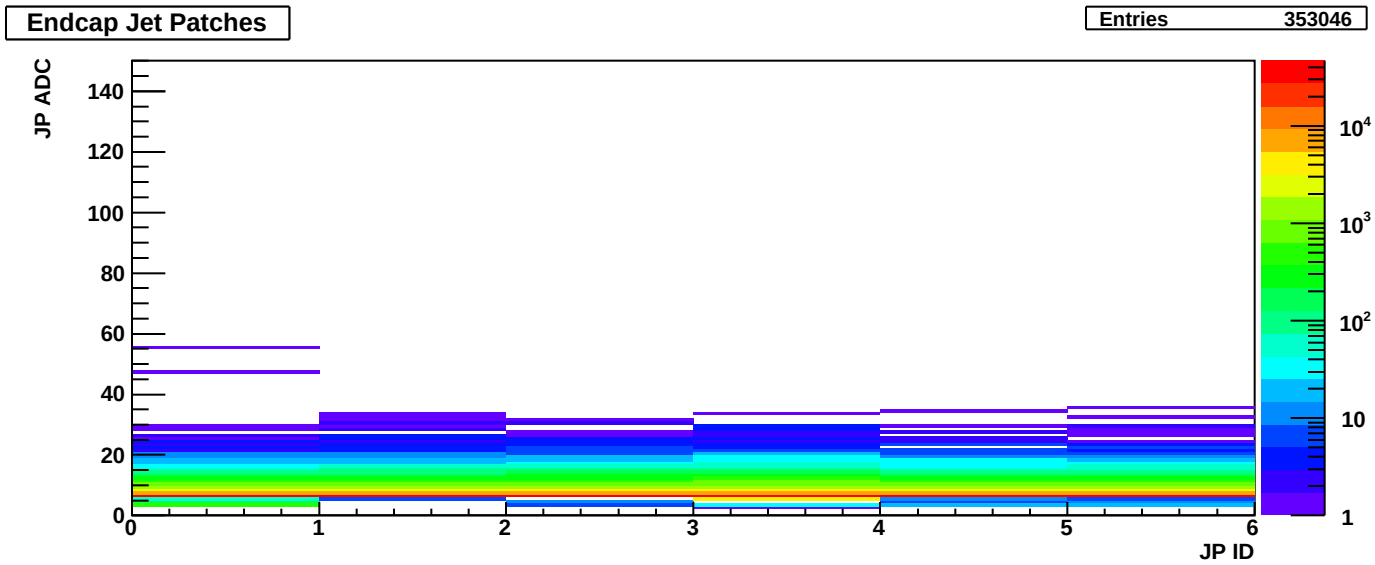

Barrel EMC L0 Input - High Tower
Entries 1.76523e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

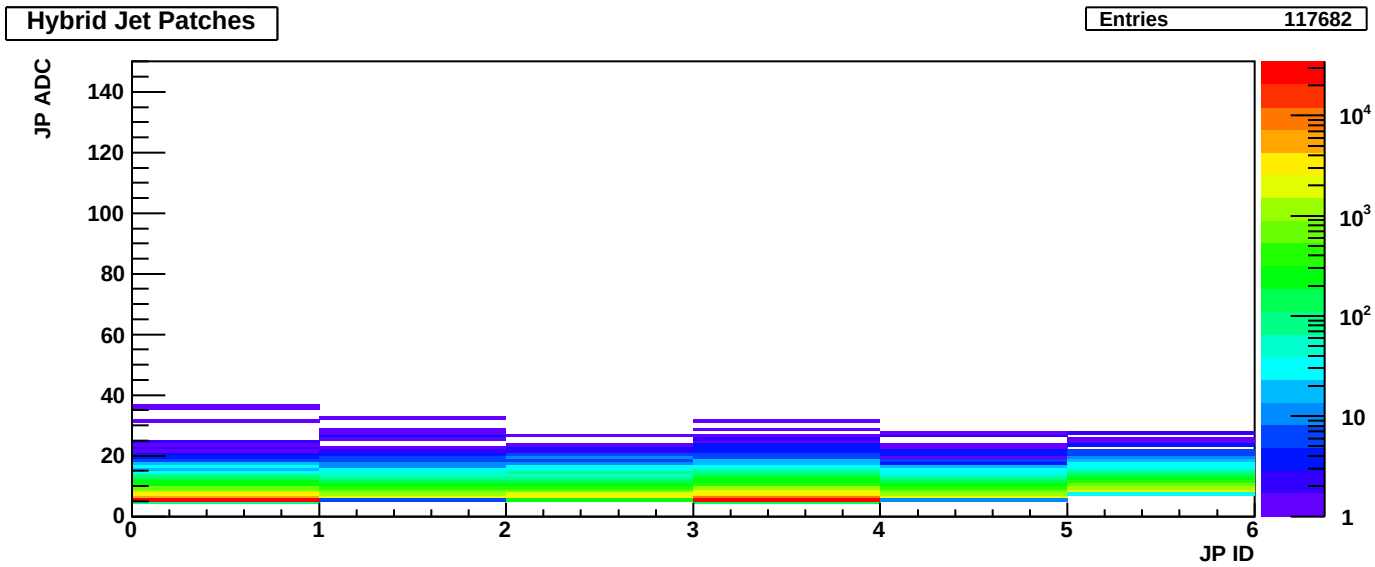

Barrel EMC L0 Input - Patch Sum
Entries 1.76523e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

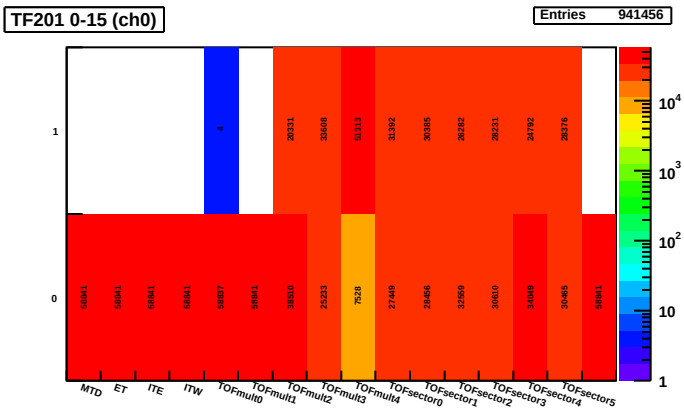

Endcap EMC L0 Input - High Tower
Entries 5295690
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

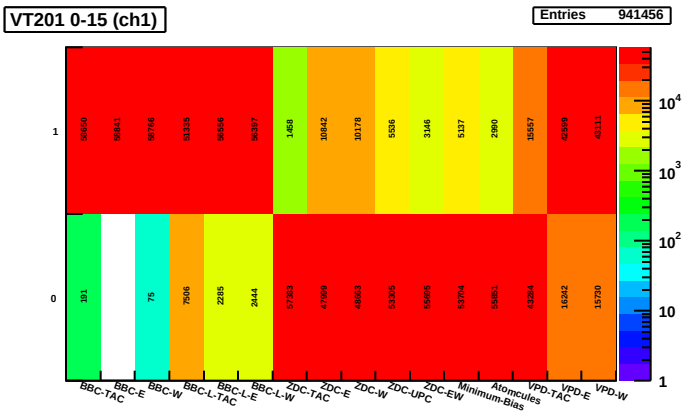

Endcap EMC L0 Input - Patch Sum
Entries 5295690
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

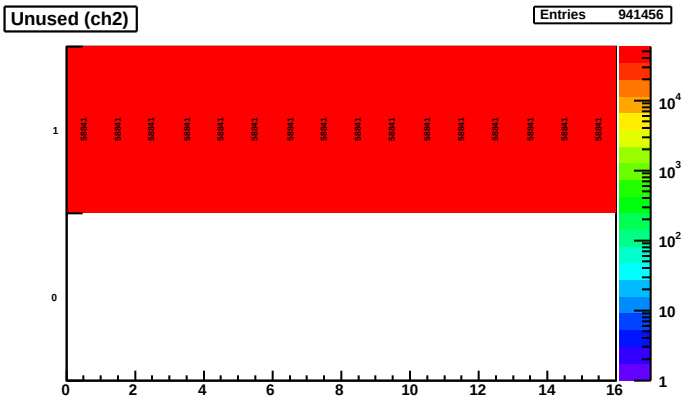

Barrel Jet Patches
Entries 1059138
JP ADC
JP ID

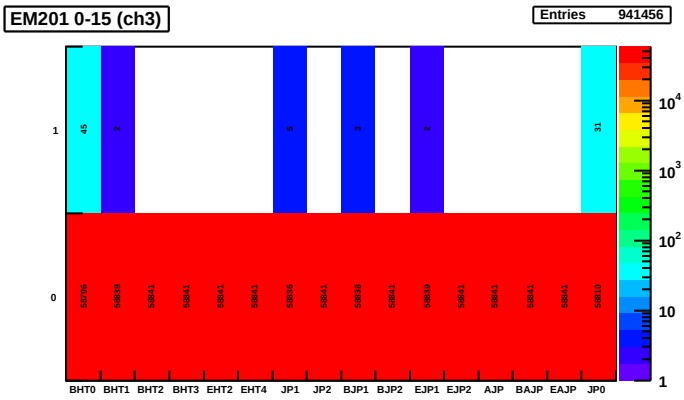

Endcap Jet Patches
Entries 353046
JP ADC
JP ID

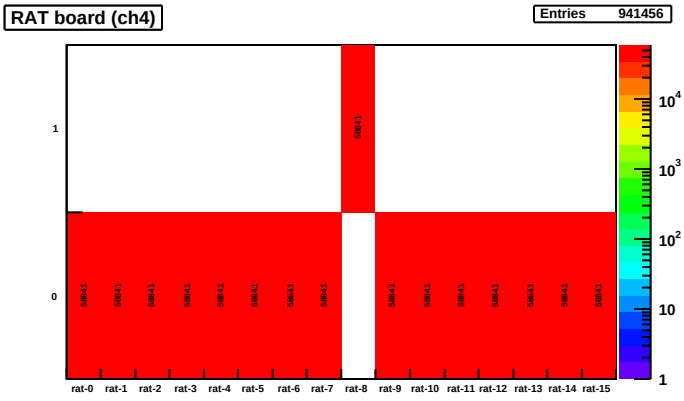

Hybrid Jet Patches
Entries 117682
JP ADC
JP ID

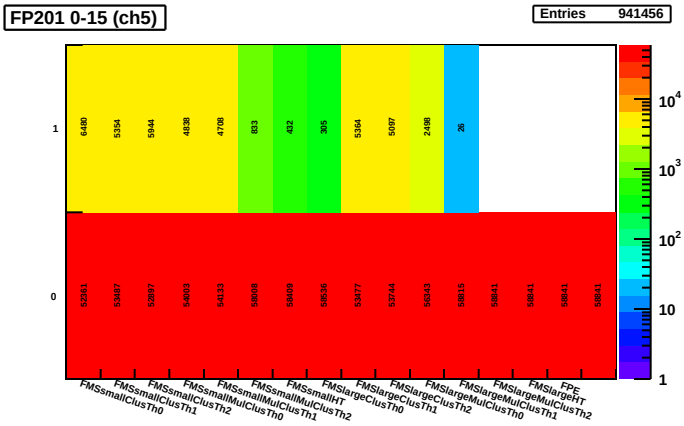

TF201 0-15 (ch0)
Entries 941456
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

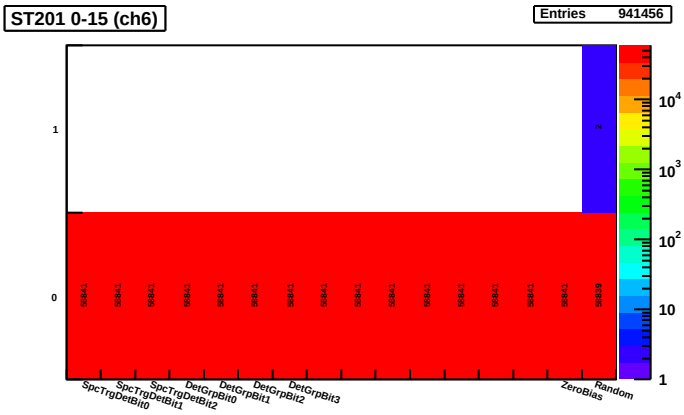

VT201 0-15 (ch1)
Entries 941456
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

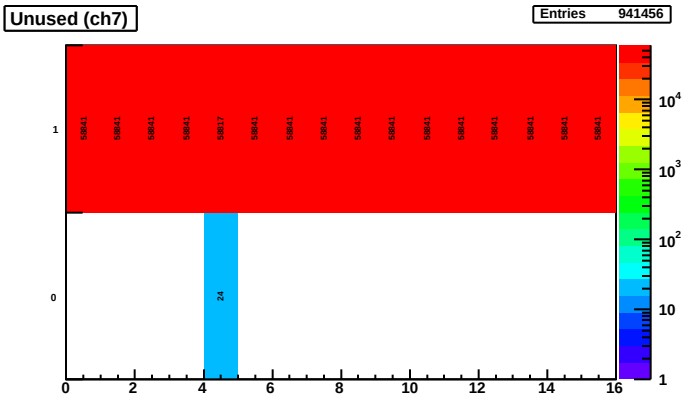

Unused (ch2)
Entries 941456

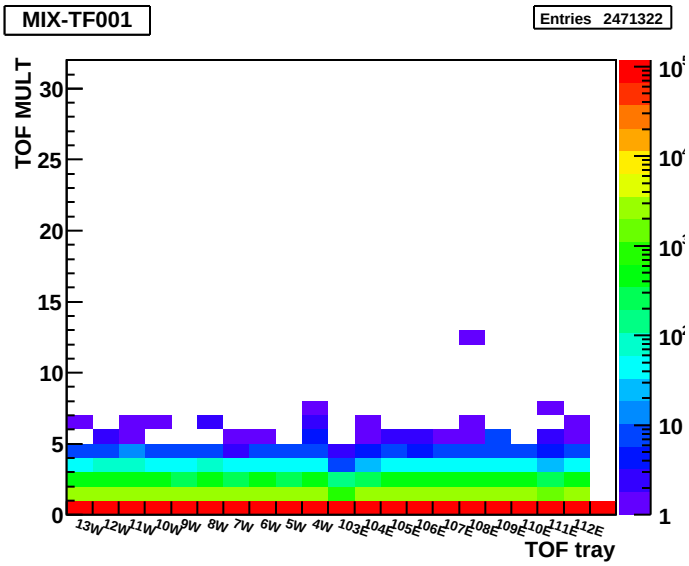

EM201 0-15 (ch3)
Entries 941456
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

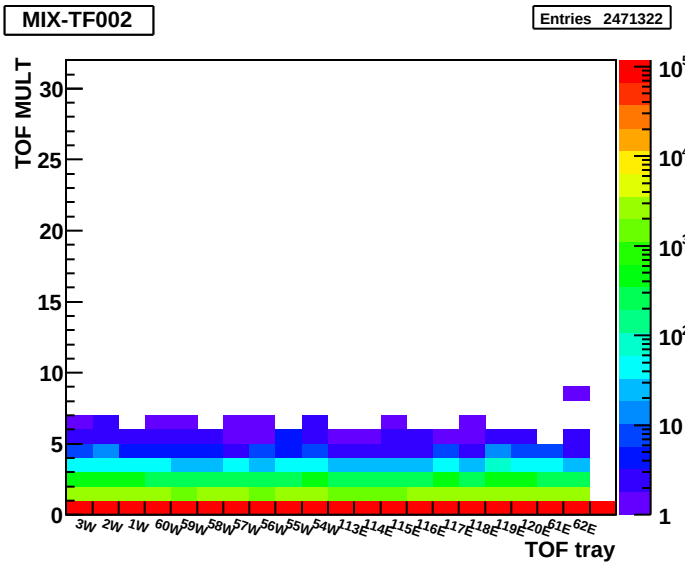

RAT board (ch4)
Entries 941456
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

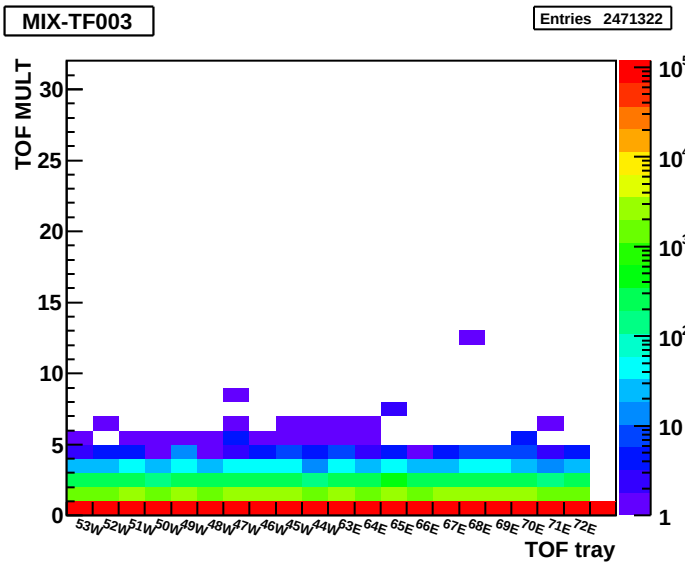

FP201 0-15 (ch5)
Entries 941456
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

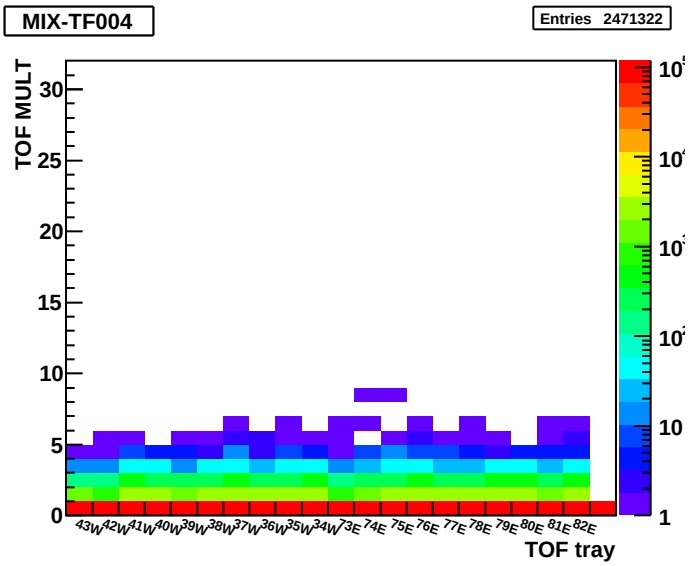

ST201 0-15 (ch6)
Entries 941456
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

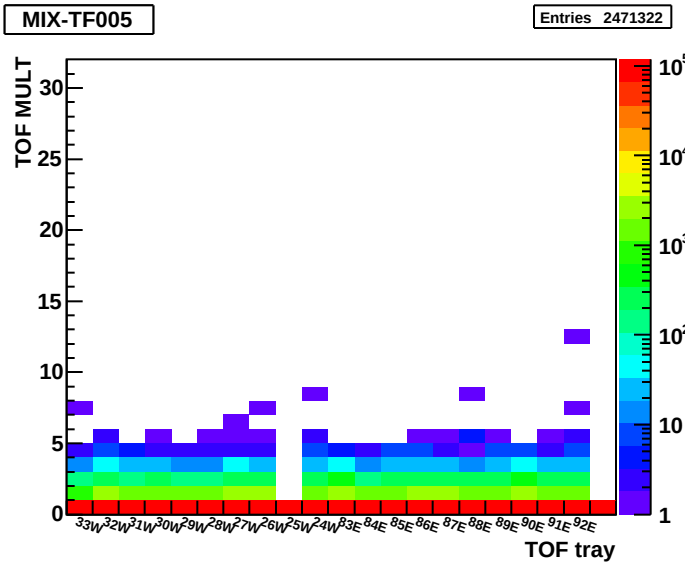

Unused (ch7)
Entries 941456

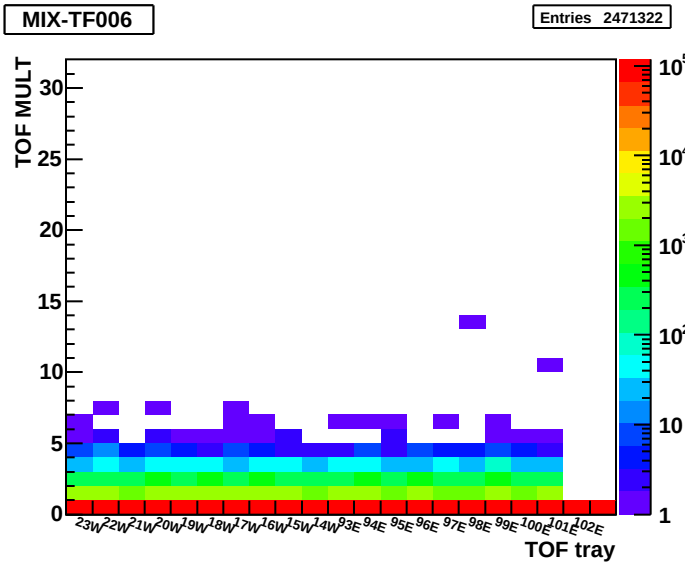

MIX-TF001
Entries 2471322
TOF MULT
TOF tray

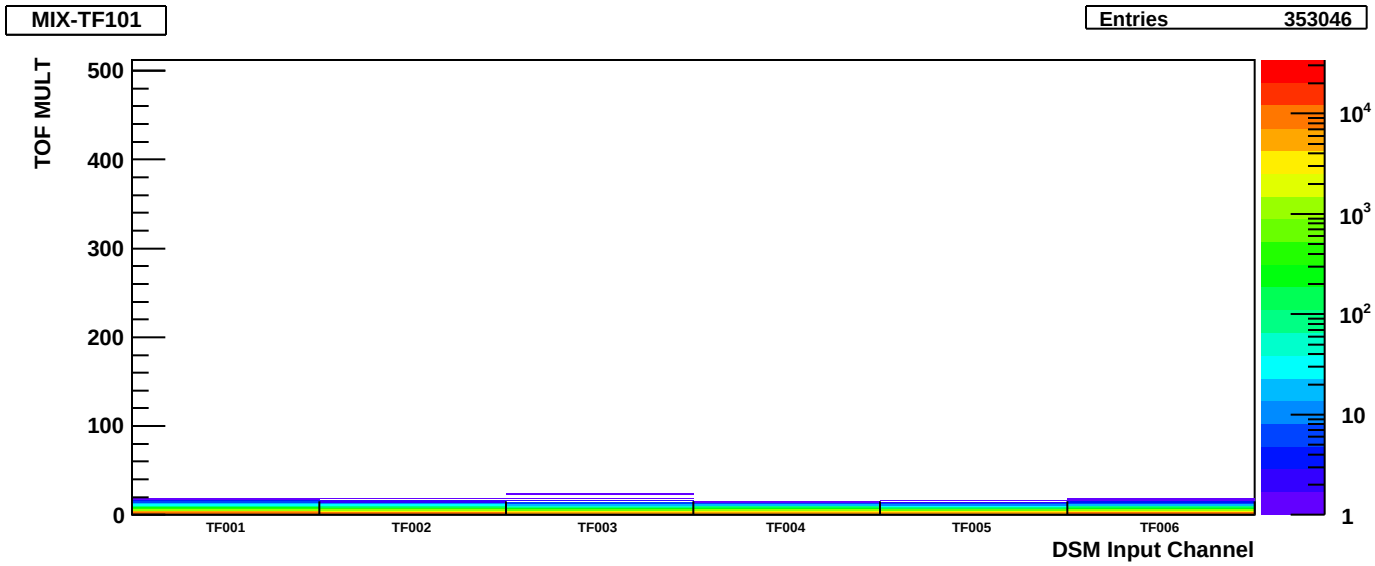

MIX-TF002
Entries 2471322
TOF MULT
TOF tray

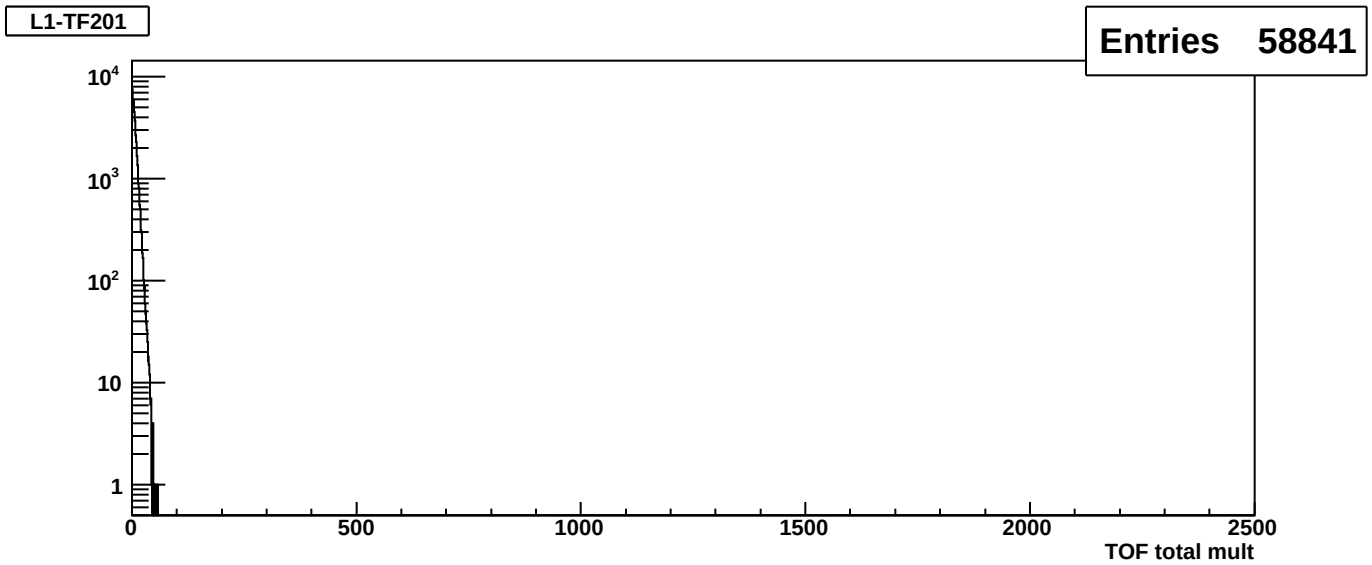

MIX-TF003
Entries 2471322
TOF MULT
TOF tray

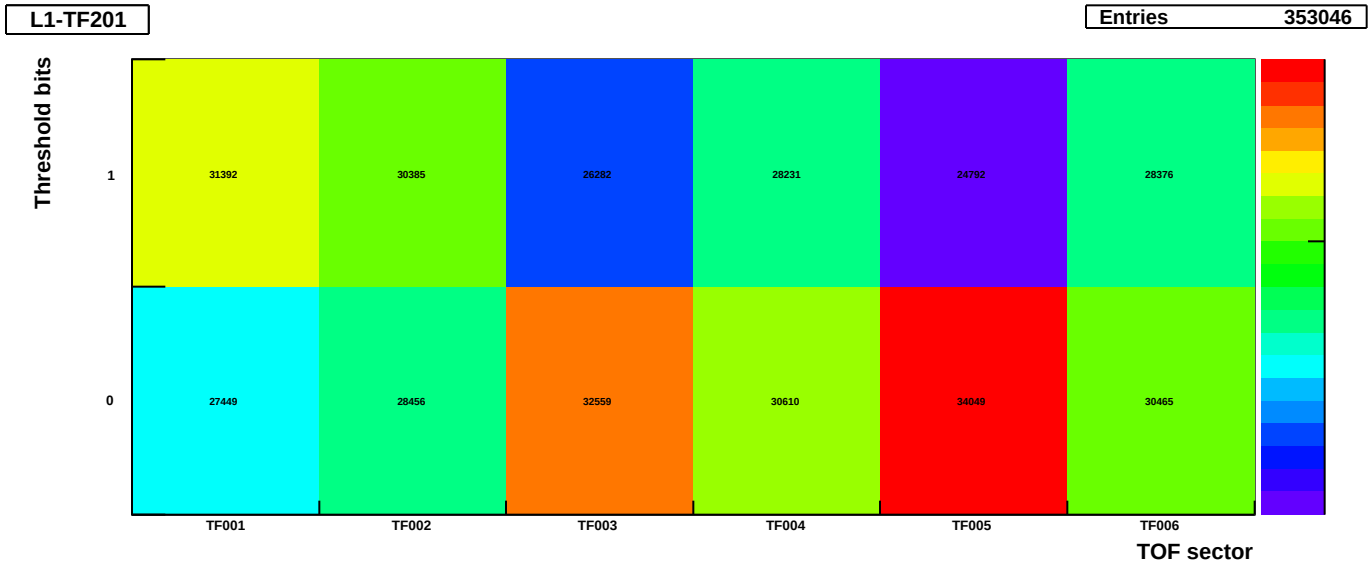

MIX-TF004
Entries 2471322
TOF MULT
TOF tray

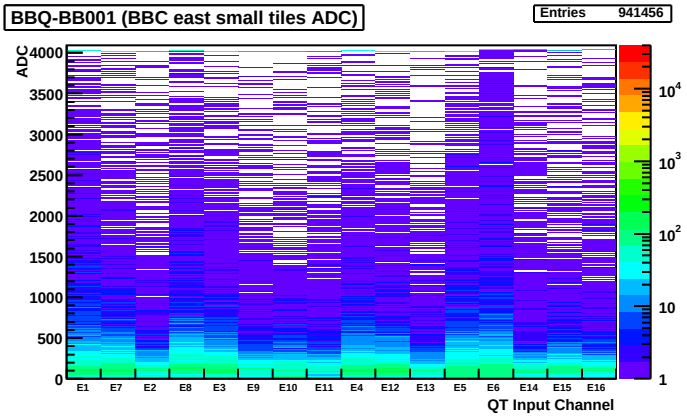

MIX-TF005
Entries 2471322
TOF MULT
TOF tray

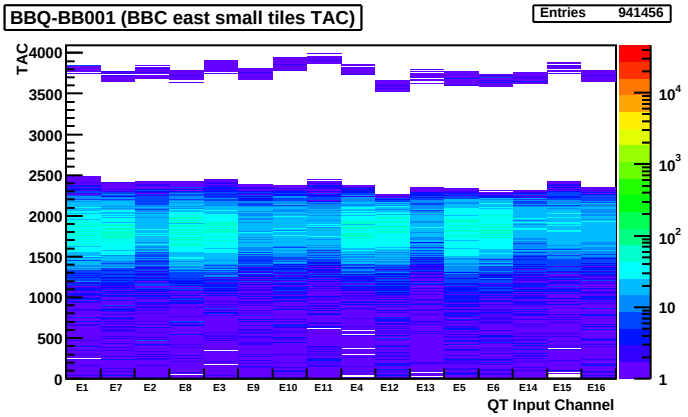

MIX-TF006
Entries 2471322
TOF MULT
TOF tray

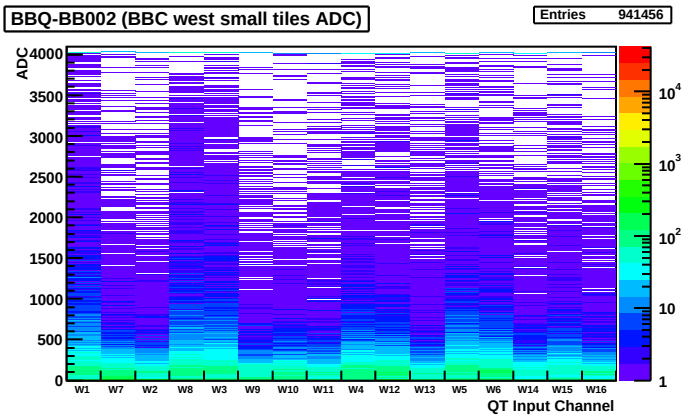

MIX-TF101
Entries 353046
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

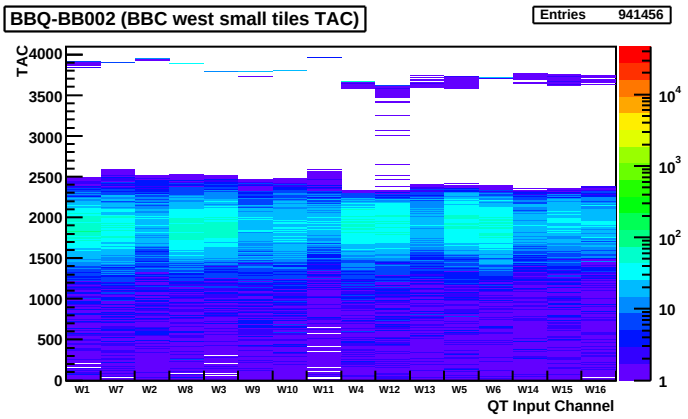

L1-TF201
Entries 58841
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

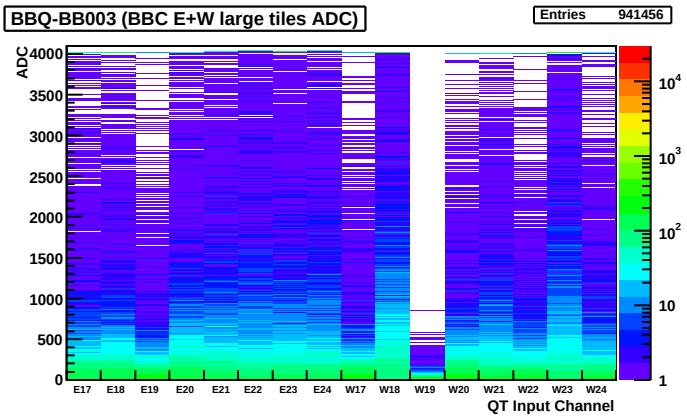

L1-TF201
Entries 353046
Threshold bits
1
0
31392
30385
26282
28231
24792
28376
27449
28456
32559
30610
34049
30465
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

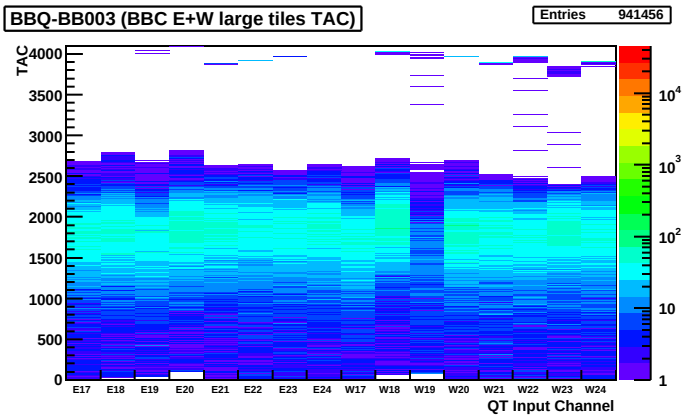

BBQ-BB001 (BBC east small tiles ADC)
Entries 941456
ADC
QT Input Channel

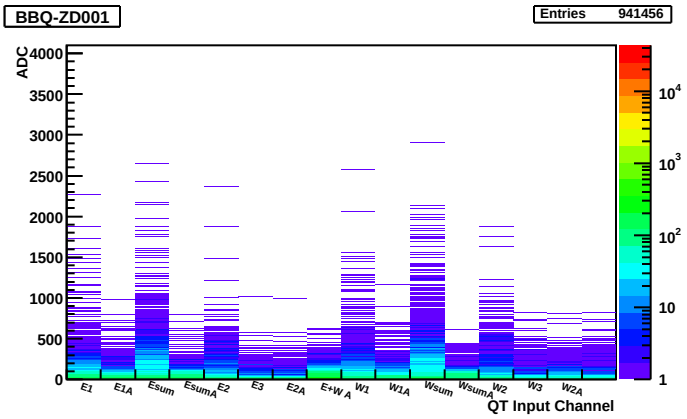

BBQ-BB001 (BBC east small tiles TAC)
Entries 941456
TAC
QT Input Channel

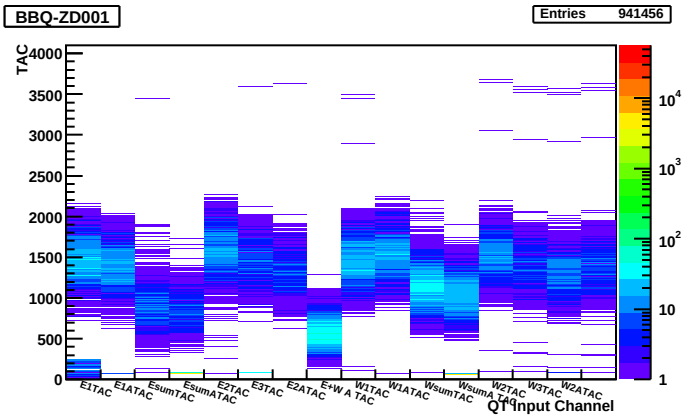

BBQ-BB002 (BBC west small tiles ADC)
Entries 941456
ADC
QT Input Channel

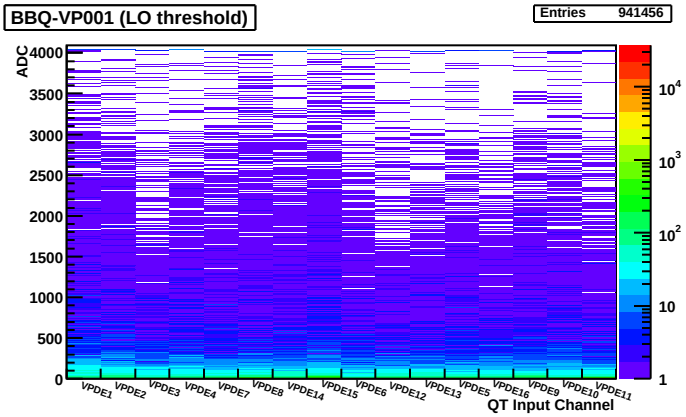

BBQ-BB002 (BBC west small tiles TAC)
Entries 941456
TAC
QT Input Channel

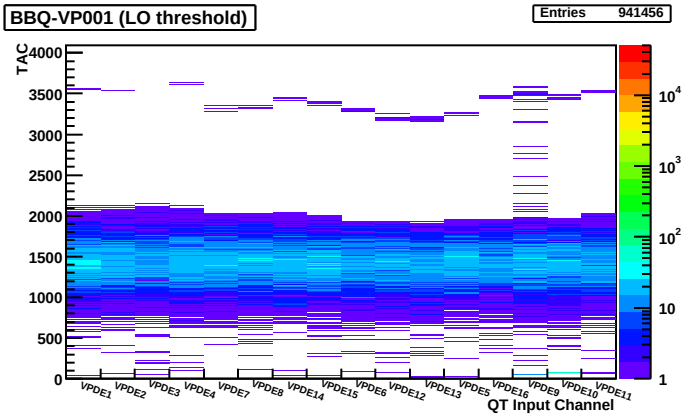

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 941456
ADC
QT Input Channel

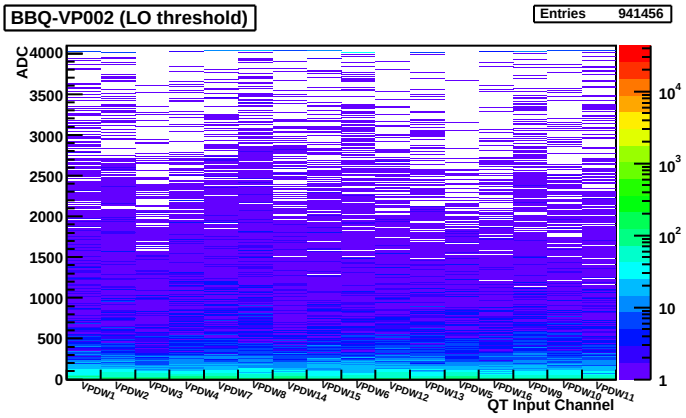

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 941456
TAC
QT Input Channel

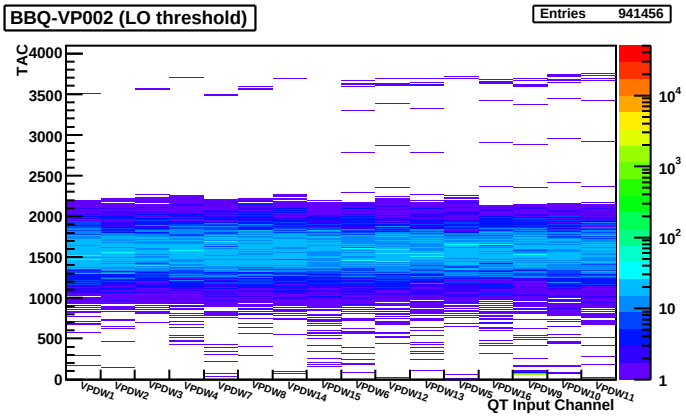

BBQ-ZD001
Entries 941456
ADC
QT Input Channel

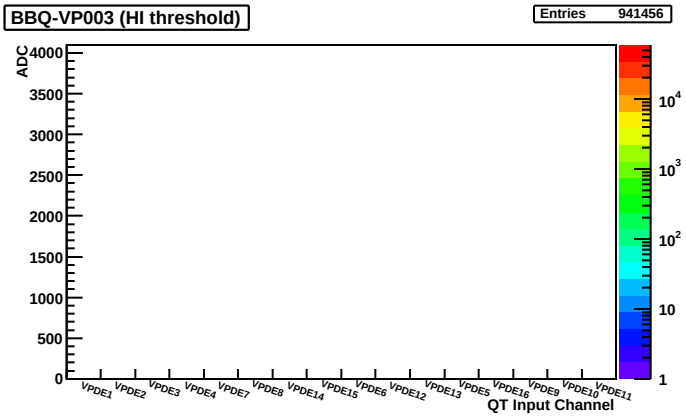

BBQ-ZD001
Entries 941456
TAC
QT Input Channel

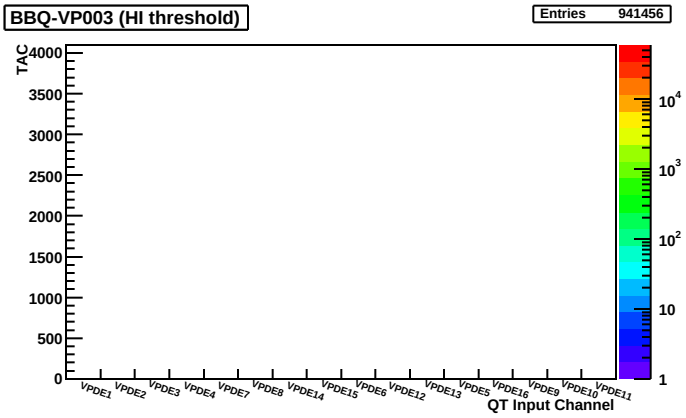

BBQ-VP001 (LO threshold)
Entries 941456
ADC
QT Input Channel

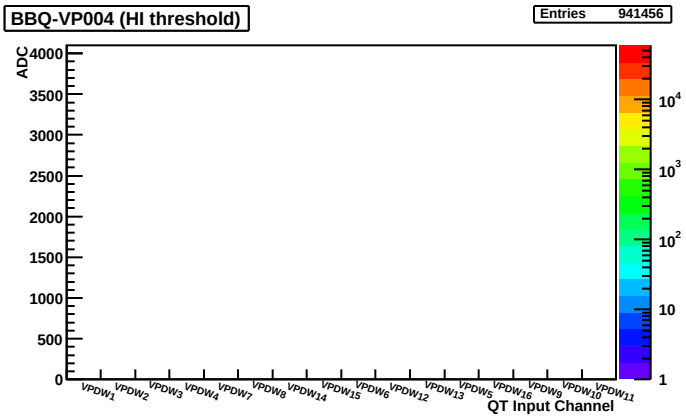

BBQ-VP001 (LO threshold)
Entries 941456
TAC
QT Input Channel

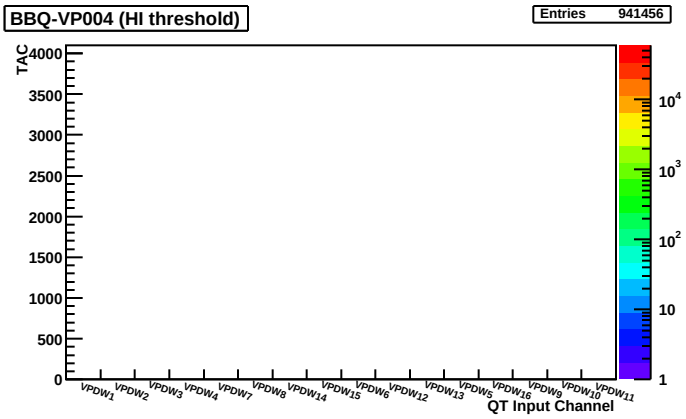

BBQ-VP002 (LO threshold)
Entries 941456
ADC
QT Input Channel

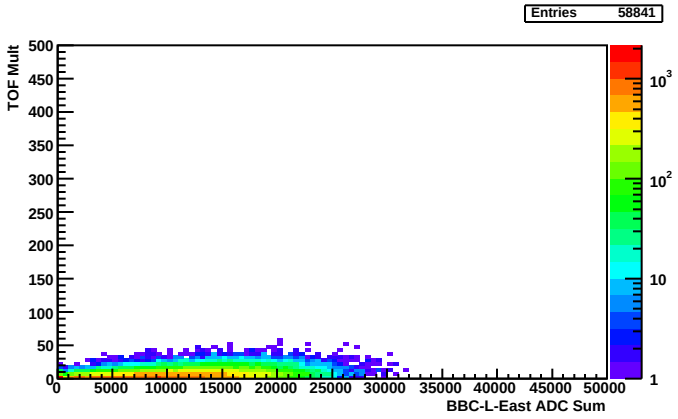

BBQ-VP002 (LO threshold)
Entries 941456
TAC
QT Input Channel

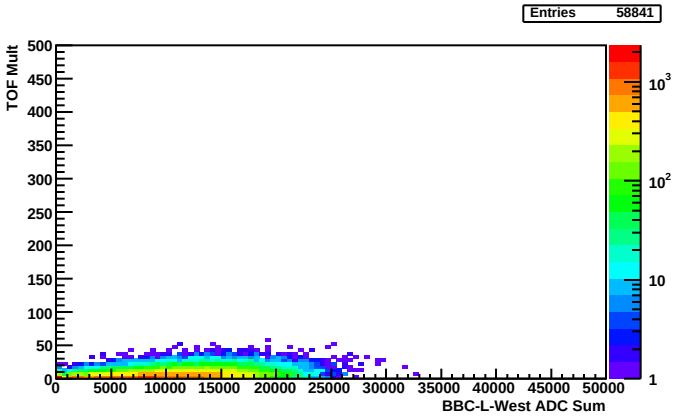

BBQ-VP003 (HI threshold)
Entries 941456
ADC
QT Input Channel

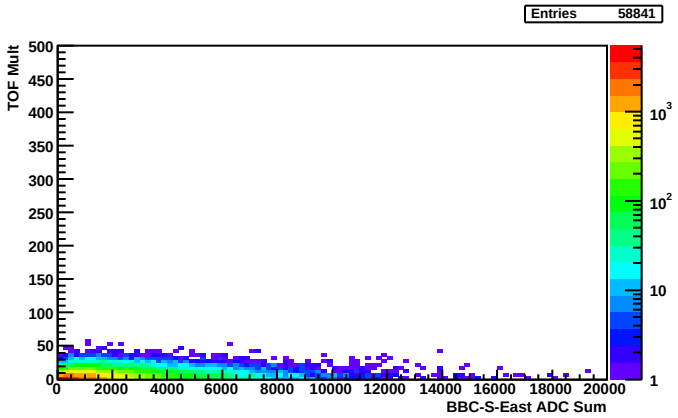

BBQ-VP003 (HI threshold)
Entries 941456
TAC
QT Input Channel

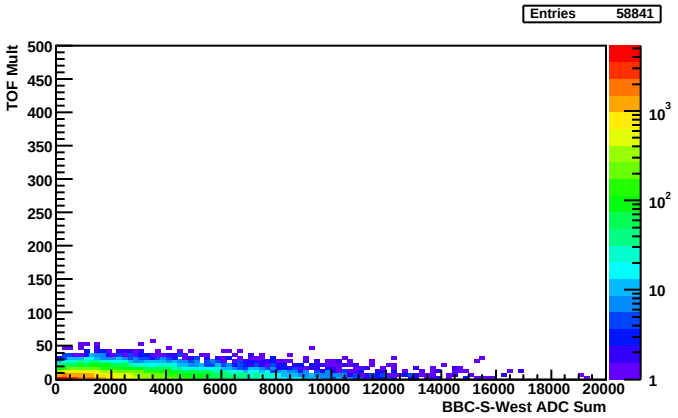

BBQ-VP004 (HI threshold)
Entries 941456
ADC
QT Input Channel

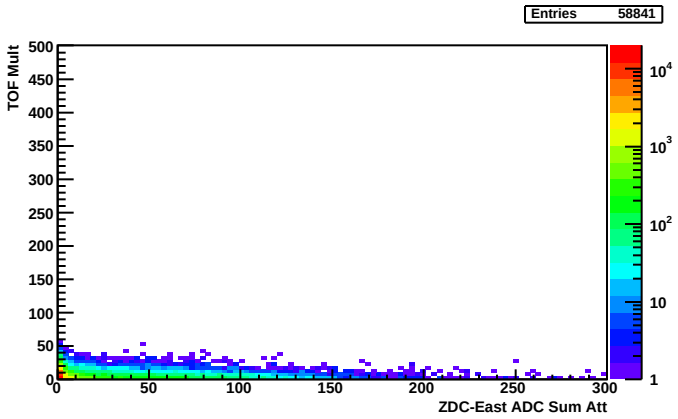

BBQ-VP004 (HI threshold)
Entries 941456
TAC
QT Input Channel

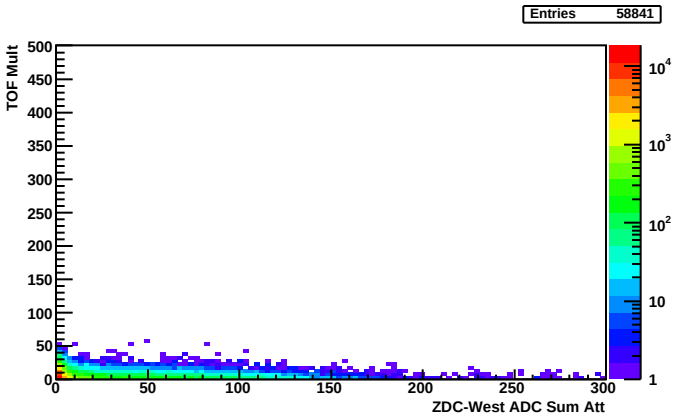

Entries 58841
TOF Mult
BBC-L-East ADC Sum

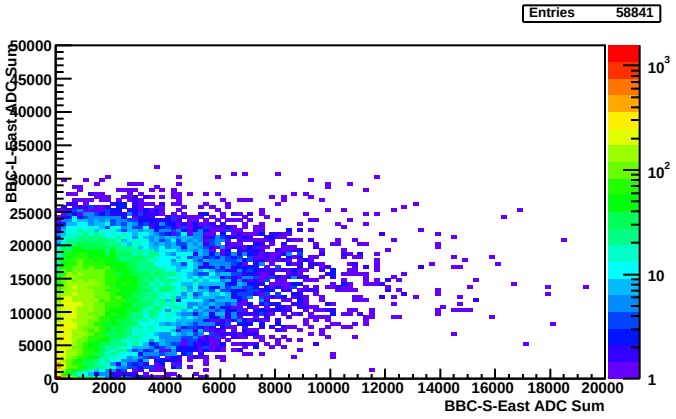

Entries 58841
TOF Mult
BBC-L-West ADC Sum

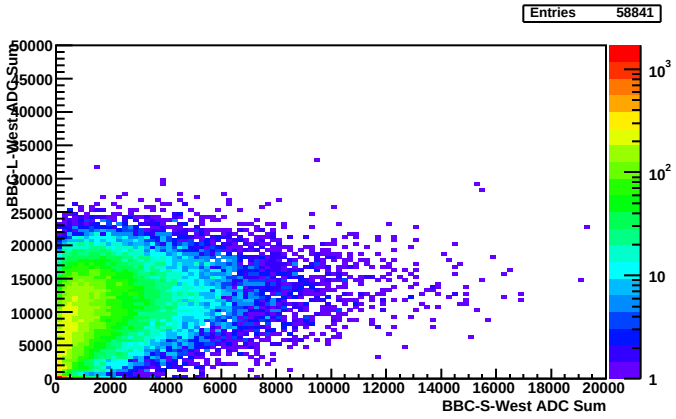

Entries 58841
TOF Mult
BBC-S-East ADC Sum

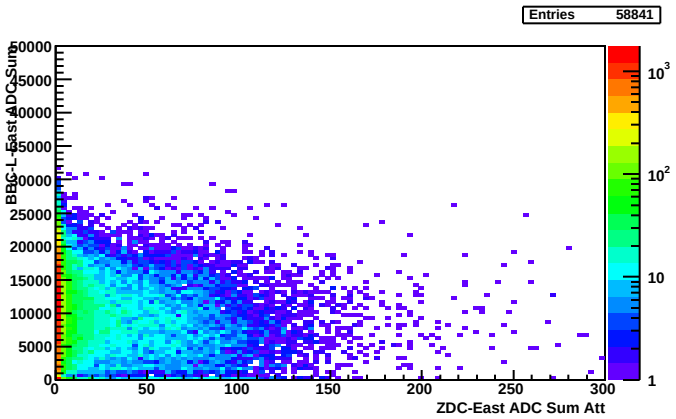

Entries 58841
TOF Mult
BBC-S-West ADC Sum

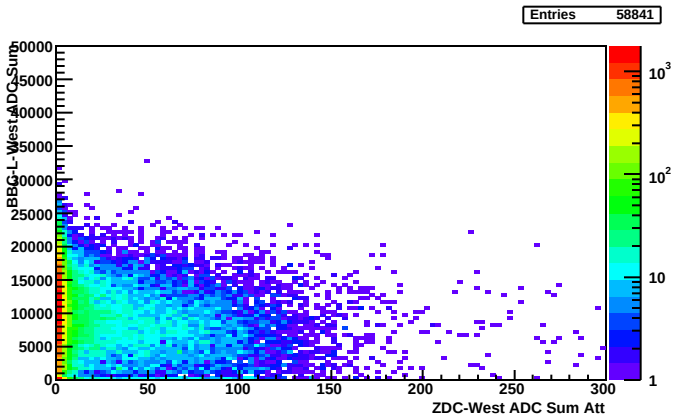

Entries 58841
TOF Mult
ZDC-East ADC Sum Att

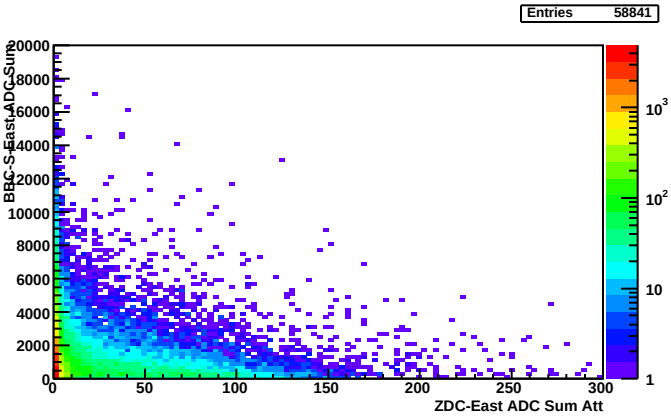

Entries 58841
TOF Mult
ZDC-West ADC Sum Att

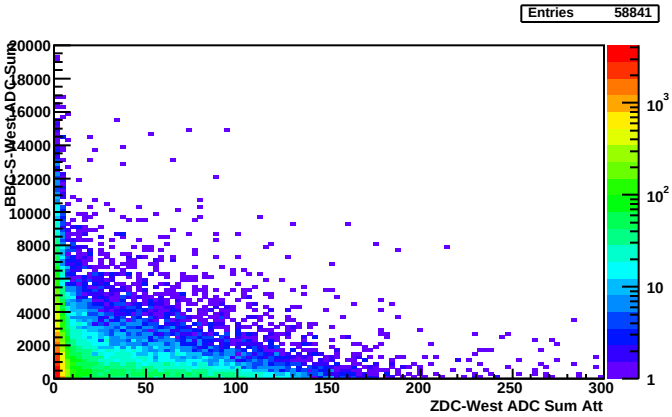

Entries 58841
BBC-L-East ADC Sum
BBC-S-East ADC Sum

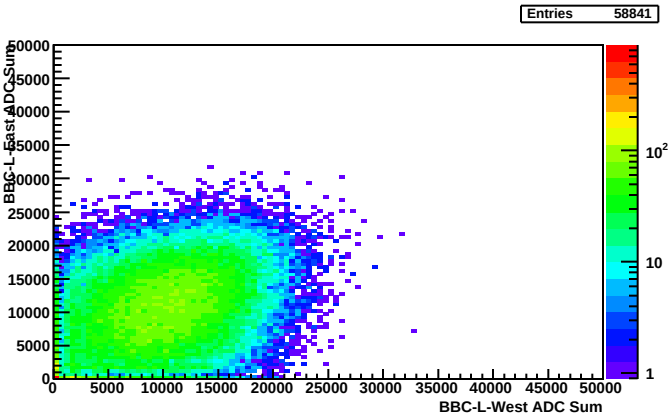

Entries 58841
BBC-L-West ADC Sum
BBC-S-West ADC Sum

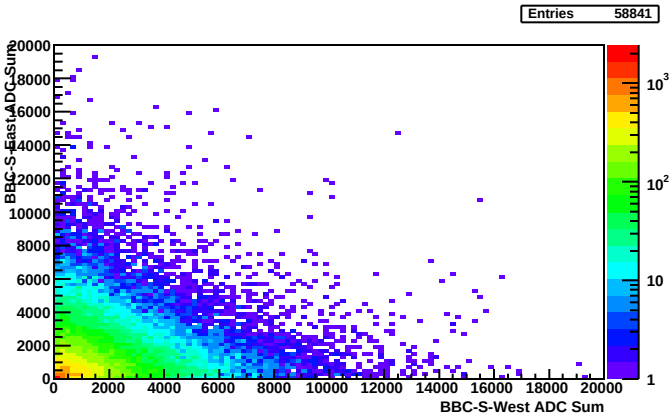

Entries 58841
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

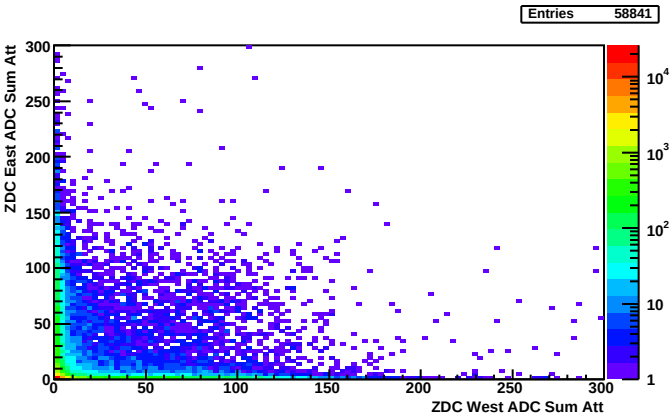

Entries 58841
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

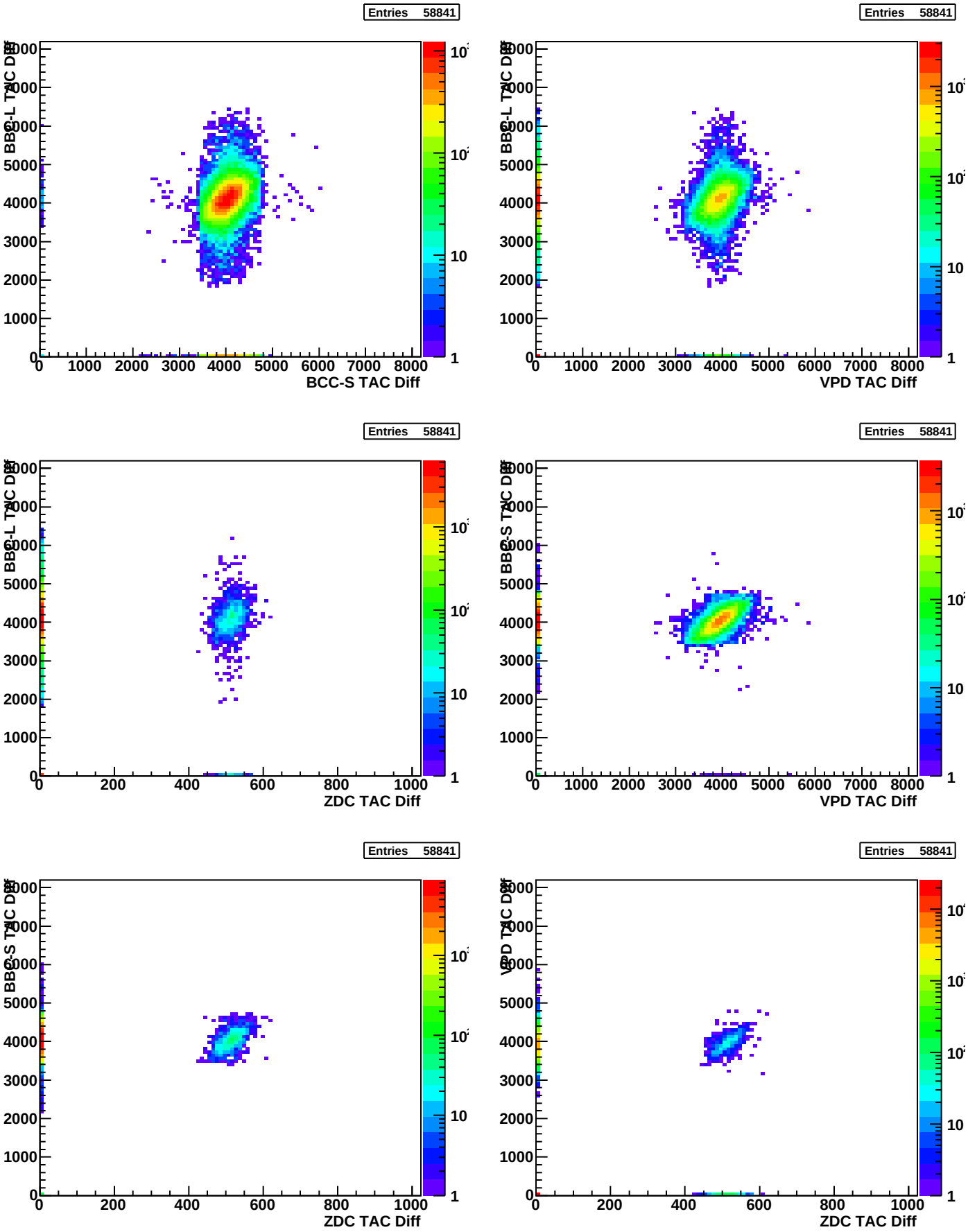

Entries 58841
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

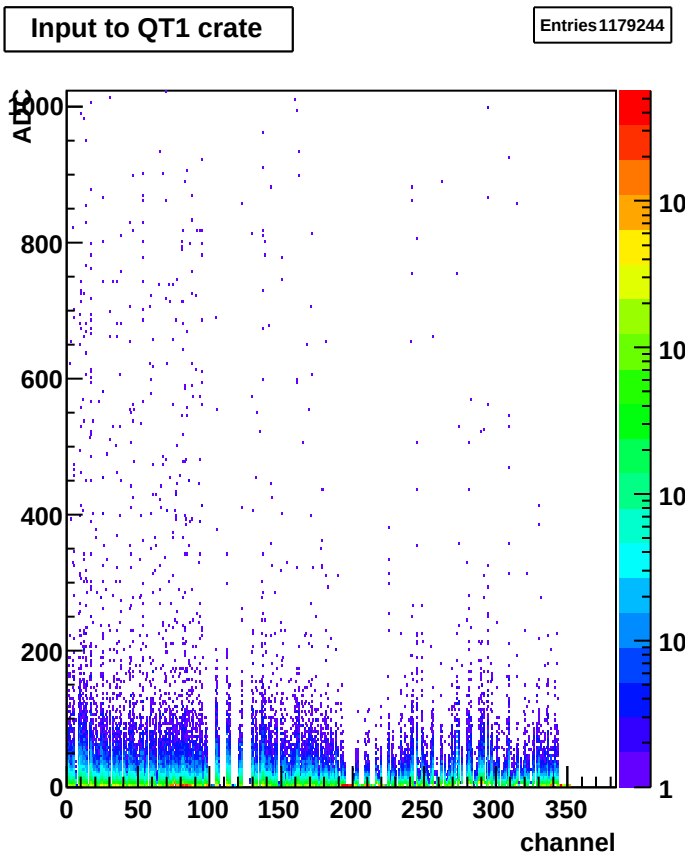

Entries 58841
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

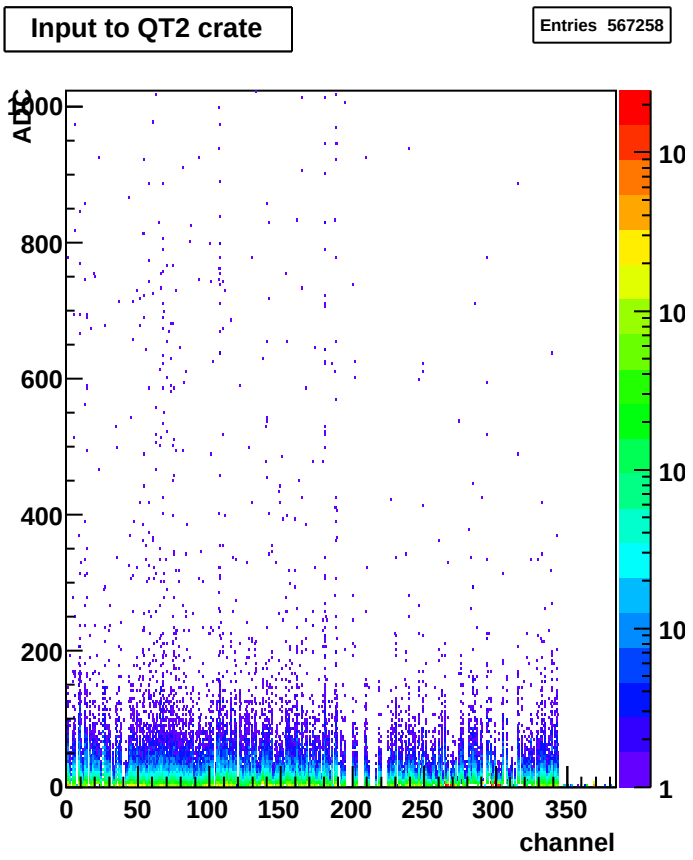

Entries 58841
BBC-L-East ADC Sum
BBC-L-West ADC Sum

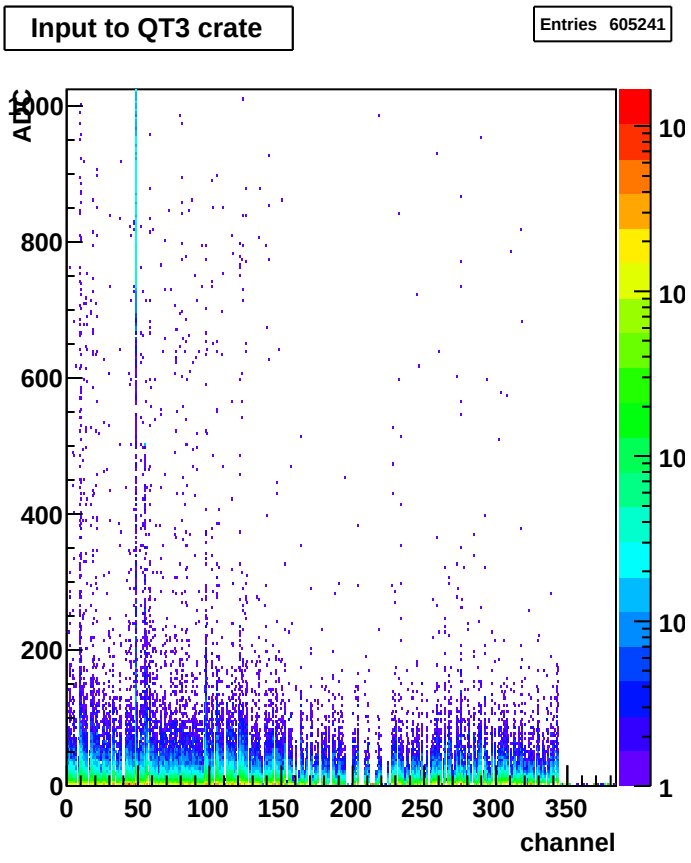

Entries 58841
BBC-S-East ADC Sum
BBC-S-West ADC Sum

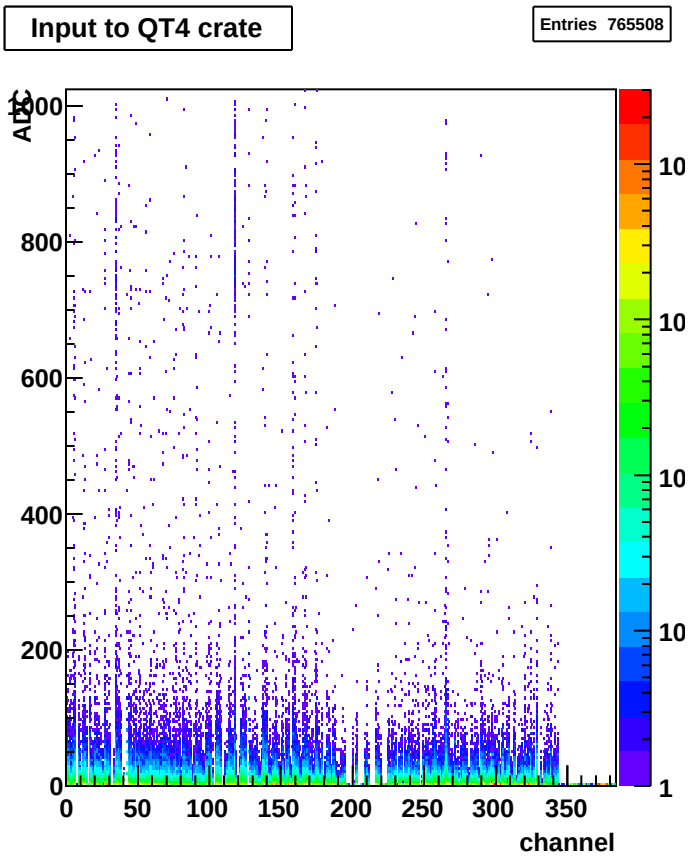

Entries 58841
ZDC East ADC Sum Att
ZDC West ADC Sum Att

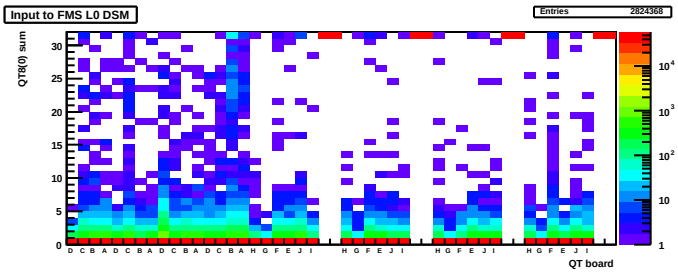

Entries 58841
BBC-L TAC Diff
BCC-S TAC Diff
Entries 58841
BBC-L TAC Diff
VPD TAC Diff
Entries 58841
BBC-L TAC Diff
ZDC TAC Diff
Entries 58841
BBC-S TAC Diff
VPD TAC Diff
Entries 58841
BBC-S TAC Diff
ZDC TAC Diff
Entries 58841
VPD TAC Diff
ZDC TAC Diff

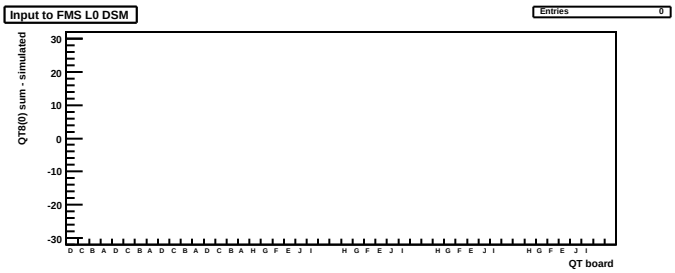

Input to QT1 crate
Entries 1179244
ADC
channel

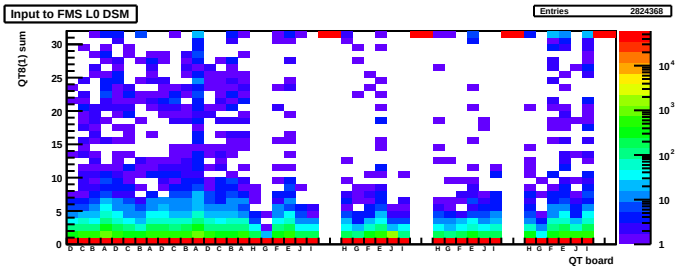

Input to QT2 crate
Entries 567258
ADC
channel

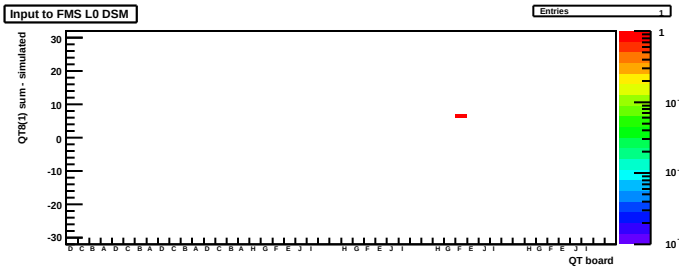

Input to QT3 crate
Entries 605241
ADC
channel

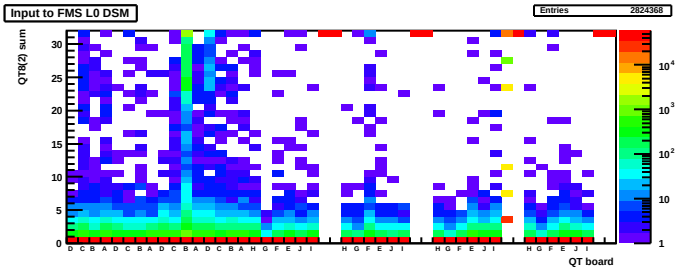

Input to QT4 crate
Entries 765508
ADC
channel

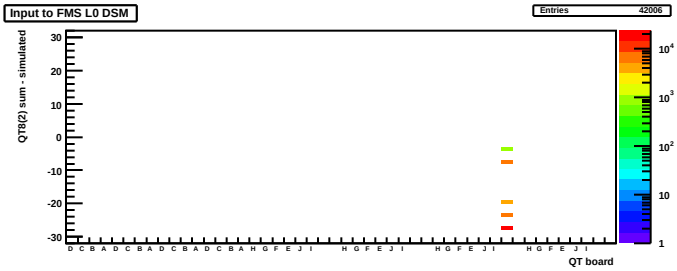

Input to FMS L0 DSM
Entries 2824368
QT8(0) sum
QT board

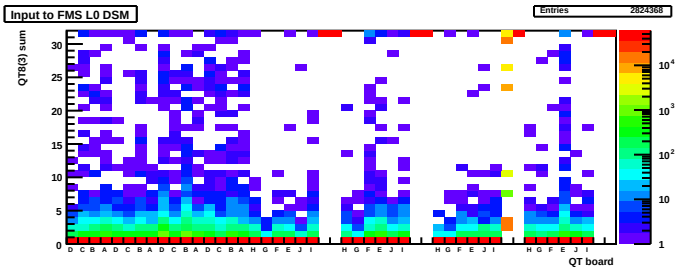

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

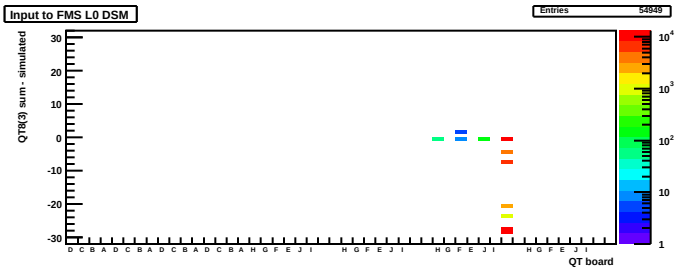

Input to FMS L0 DSM
Entries 2824368
QT8(1) sum
QT board

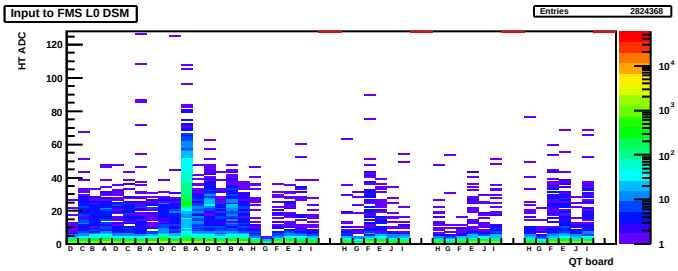

Input to FMS L0 DSM
Entries 1
QT8(1) sum - simulated
QT board

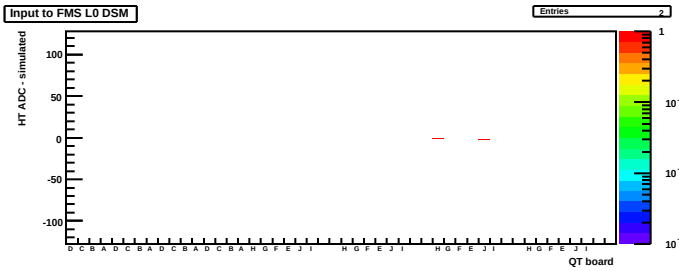

Input to FMS L0 DSM
Entries 2824368
QT8(2) sum
QT board

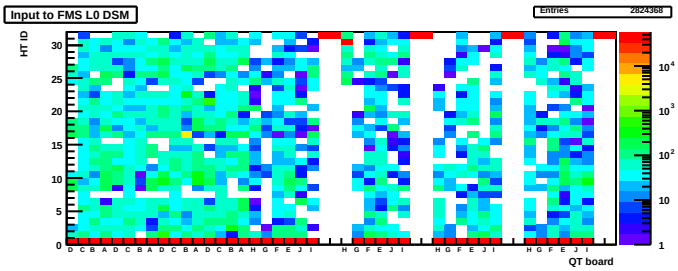

Input to FMS L0 DSM
Entries 42006
QT8(2) sum - simulated
QT board

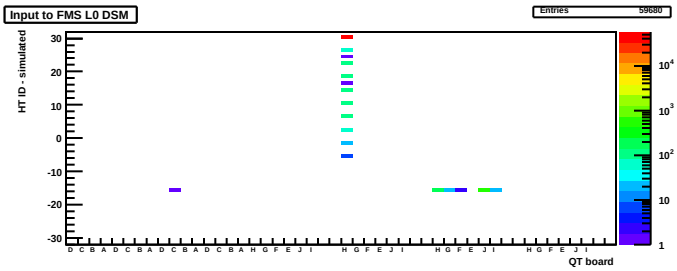

Input to FMS L0 DSM
Entries 2824368
QT8(3) sum
QT board

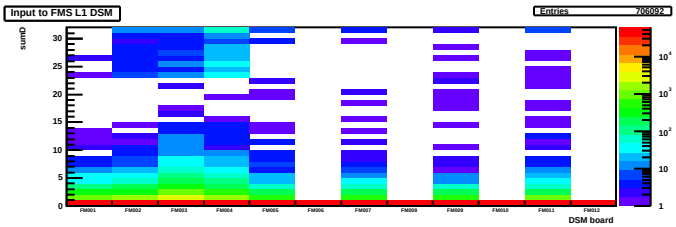

Input to FMS L0 DSM
Entries 54849
QT8(3) sum - simulated
QT board

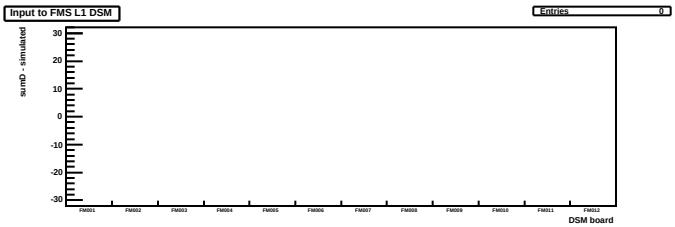

Input to FMS L0 DSM
Entries 2824368
HT ADC
QT board

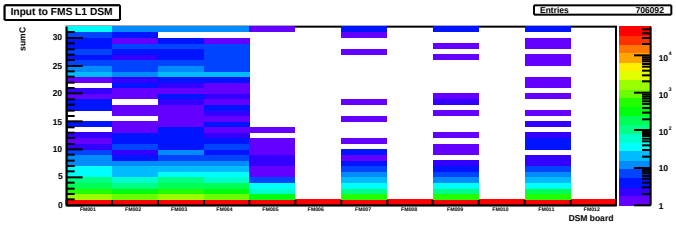

Input to FMS L0 DSM
Entries 2
HT ADC - simulated
QT board

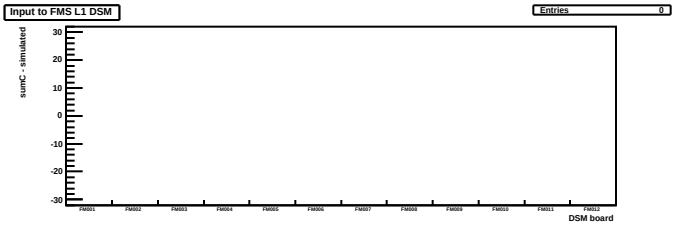

Input to FMS L0 DSM
Entries 2824368
HT ID
QT board

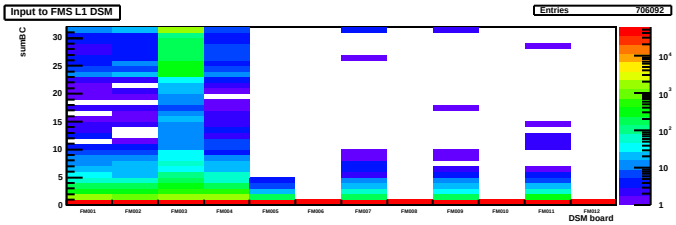

Input to FMS L0 DSM
Entries 59680
HT ID - simulated
QT board

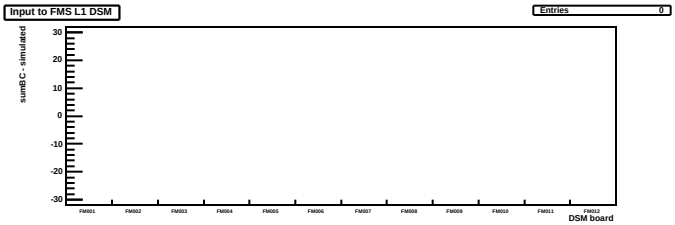

Input to FMS L1 DSM
Entries 706092
sumD
DSM board

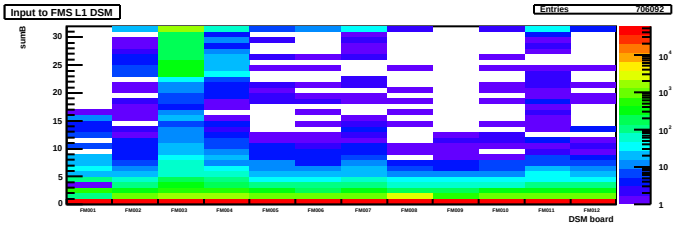

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

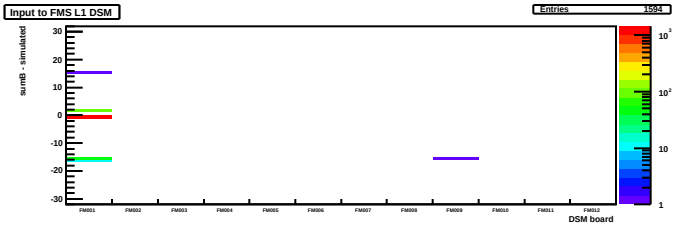

Input to FMS L1 DSM
Entries 706092
sumC
DSM board

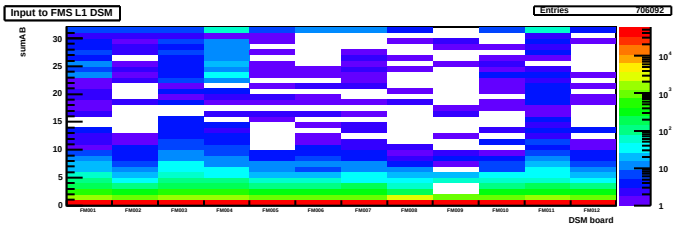

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

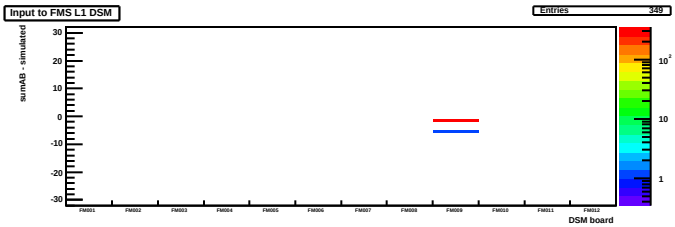

Input to FMS L1 DSM
Entries 706092
sumBC
DSM board

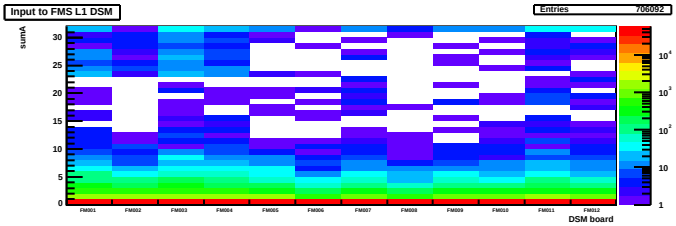

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

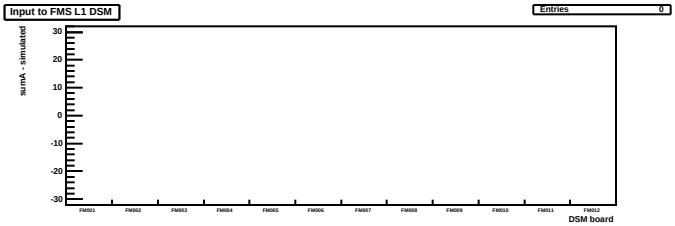

Input to FMS L1 DSM
Entries 706092
sumB
DSM board

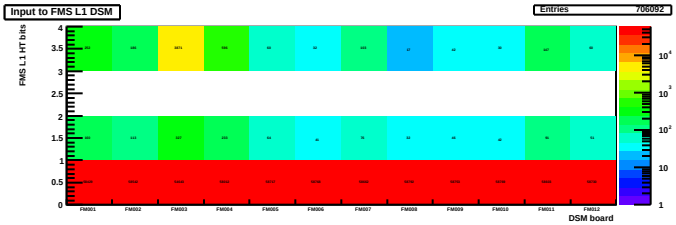

Input to FMS L1 DSM
Entries 1594
sumB - simulated
DSM board

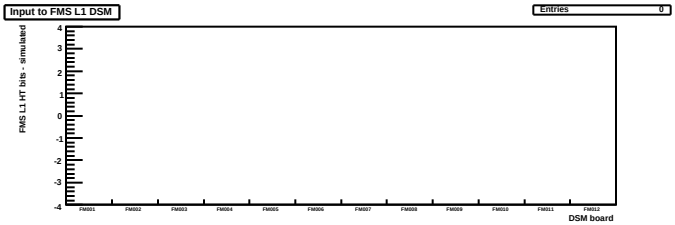

Input to FMS L1 DSM
Entries 706092
sumAB
DSM board

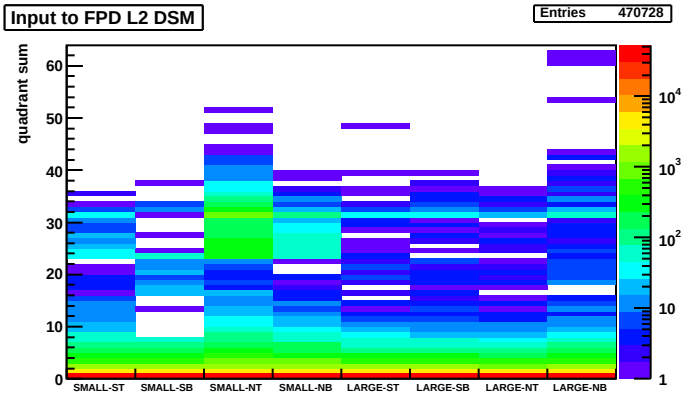

Input to FMS L1 DSM
Entries 349
sumAB - simulated
DSM board

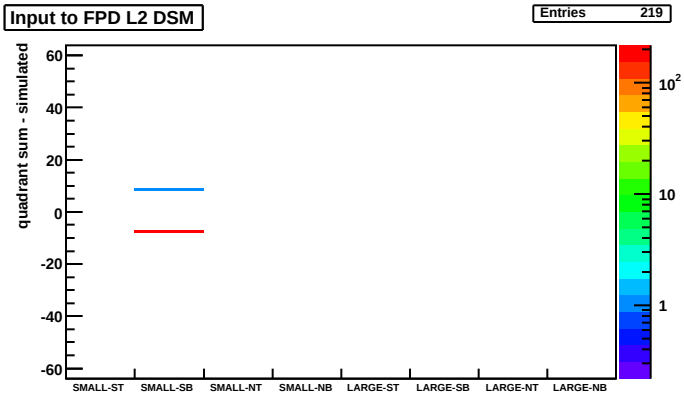

Input to FMS L1 DSM
Entries 706092
sumA
DSM board

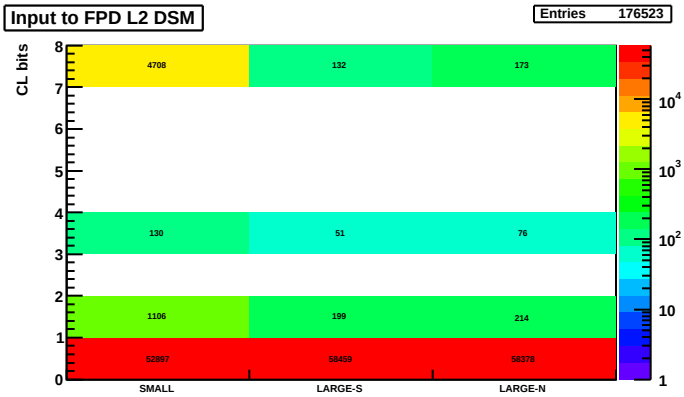

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

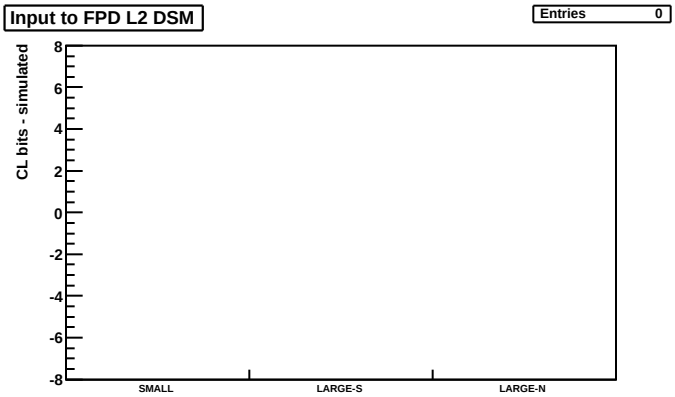

Input to FMS L1 DSM
Entries 706092
FMS L1 HT bits
DSM board

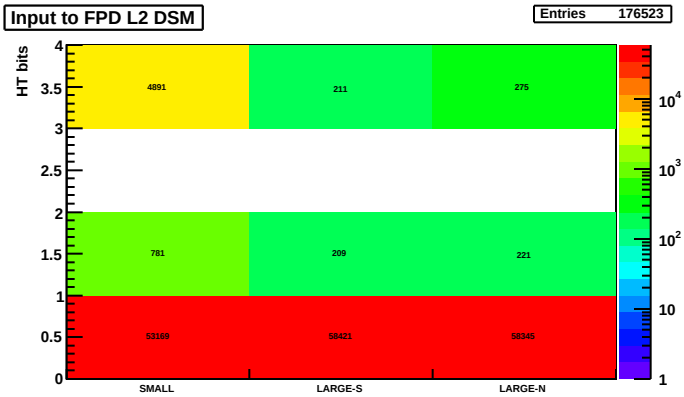

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

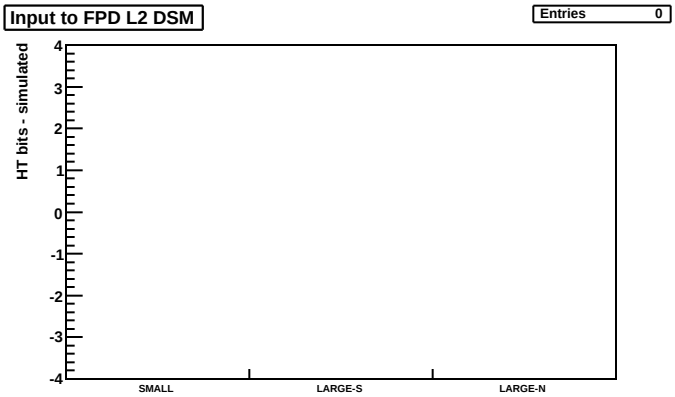

Input to FPD L2 DSM
Entries 470728
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

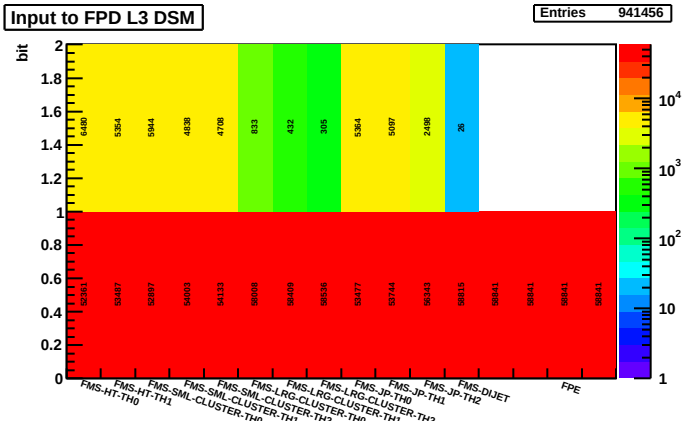

Input to FPD L2 DSM
Entries 219
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

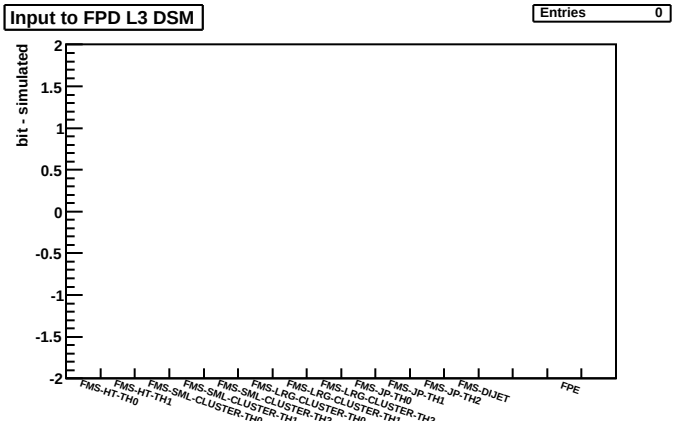

Input to FPD L2 DSM
Entries 176523
CL bits
4708
132
173
130
51
76
1106
199
214
52897
58459
58378
SMALL
LARGE-S
LARGE-N

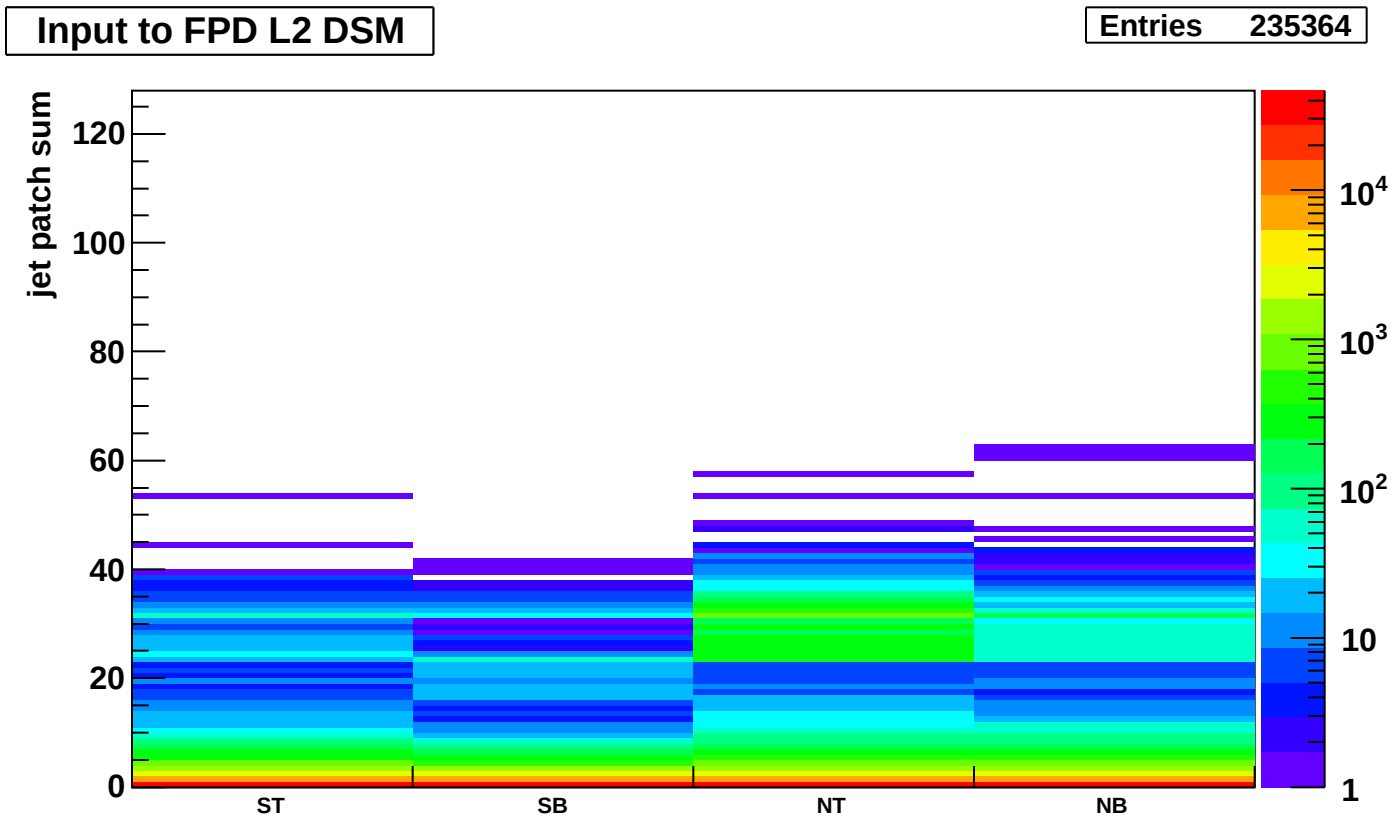

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

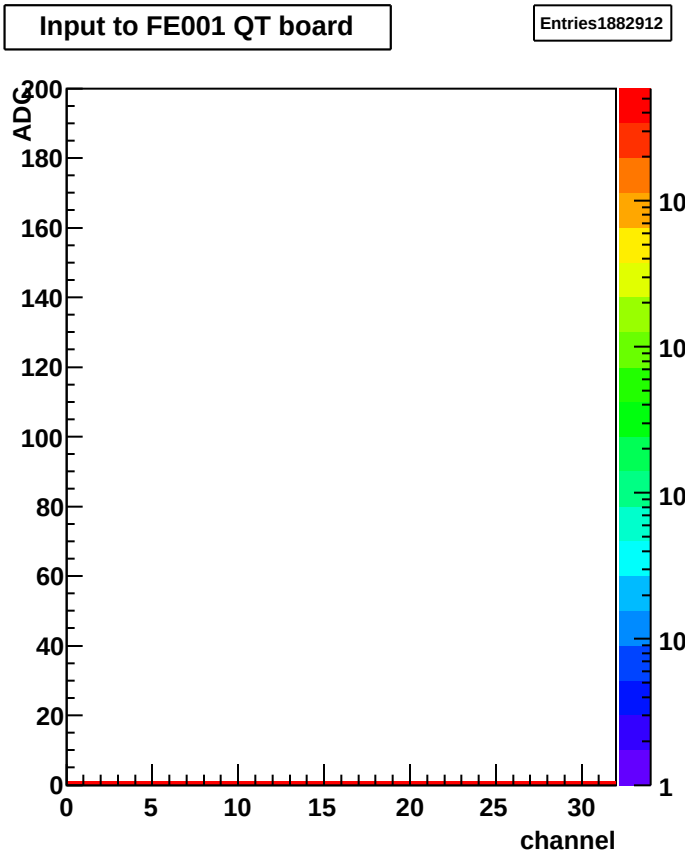

Input to FPD L2 DSM
Entries 176523
HT bits
4891
211
275
781
209
221
53169
58421
58345
SMALL
LARGE-S
LARGE-N

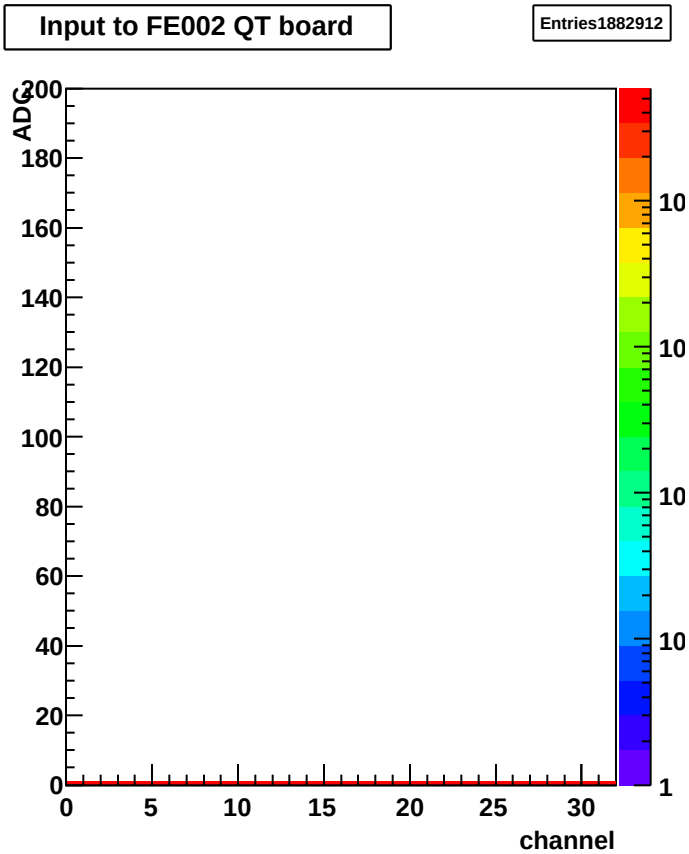

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

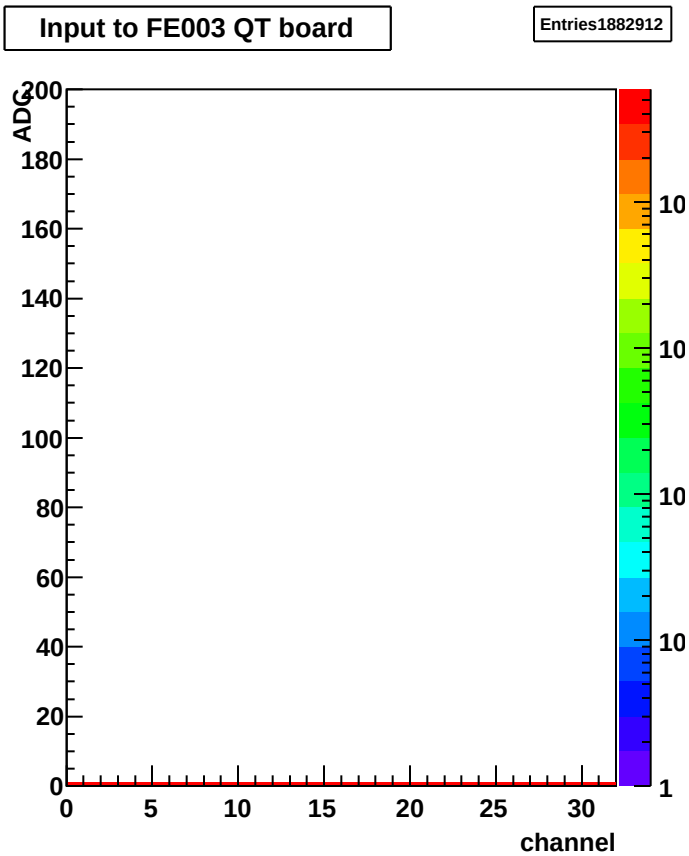

Input to FPD L3 DSM
Entries 941456
bit
6480
5354
5944
4838
4708
833
432
305
5364
5097
2498
26
52391
53487
52897
54003
54133
58008
59409
58536
53477
52744
56343
58815
58841
58841
58841
58841
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

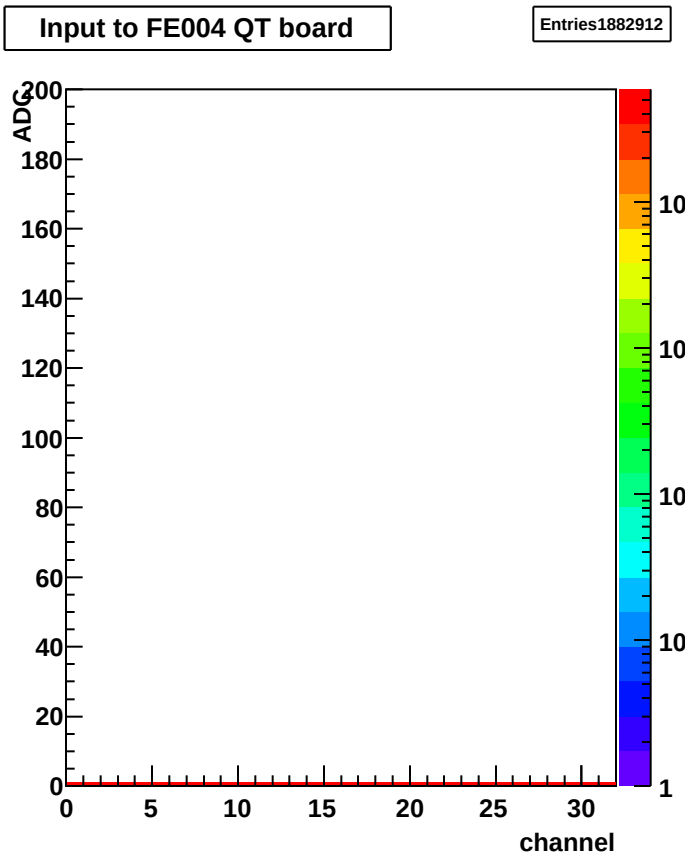

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

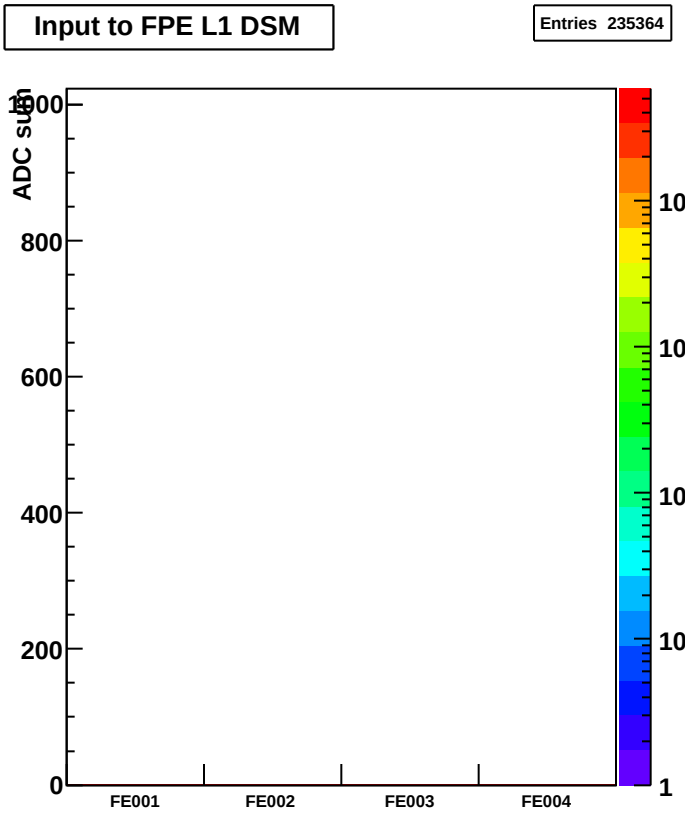

Input to FPD L2 DSM
Entries 235364
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^4
10^3
10^2
10
1

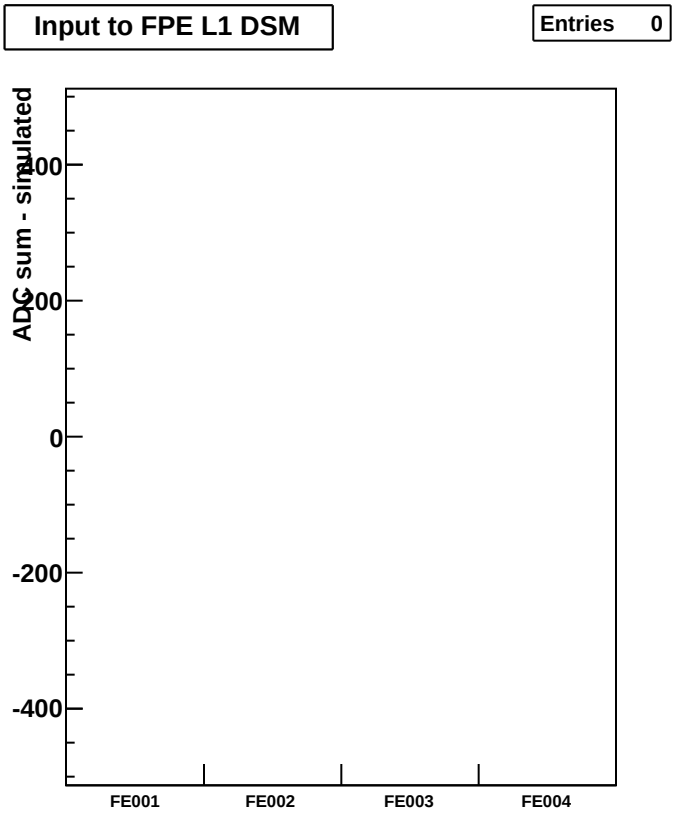

Input to FE001 QT board
Entries1882912
ADC
channel

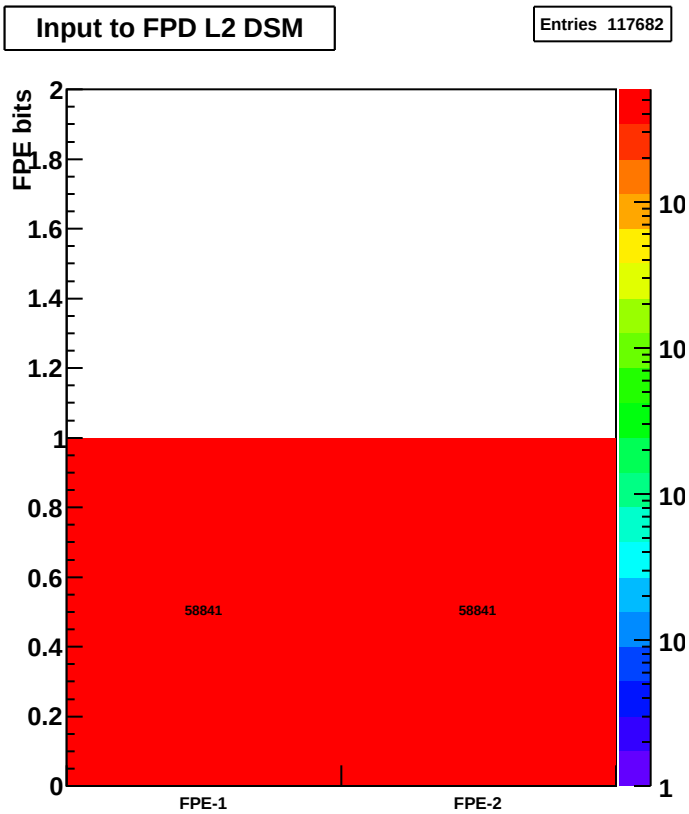

Input to FE002 QT board
Entries1882912
ADC
channel

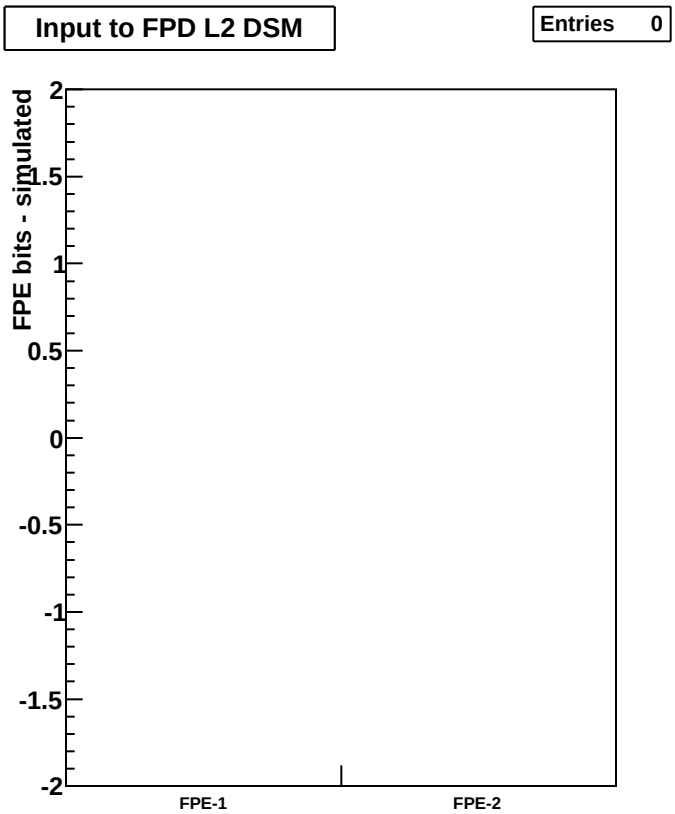

Input to FE003 QT board
Entries1882912
ADC
channel


Input to FE004 QT board
Entries1882912
ADC
channel


Input to FPE L1 DSM
Entries 235364
ADC sum
1000
800
600
400
200
0
FE001
FE002
FE003
FE004
10
10
10
10
1


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


Input to FPD L2 DSM
Entries 117682
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
58841
58841
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