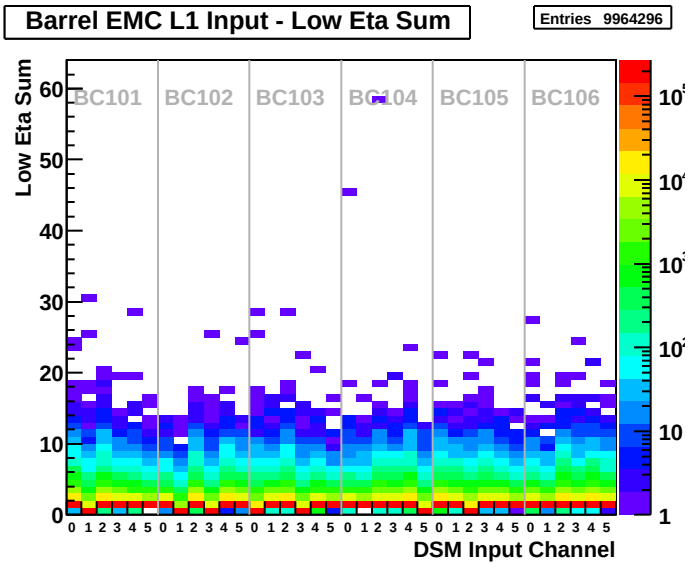
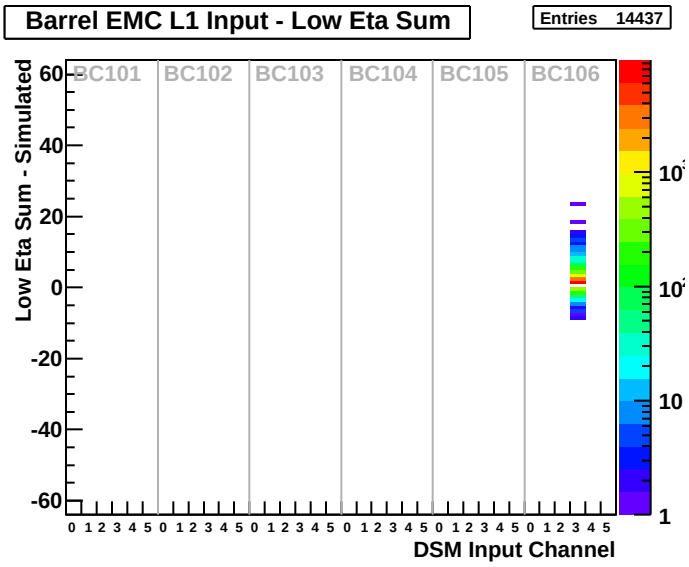
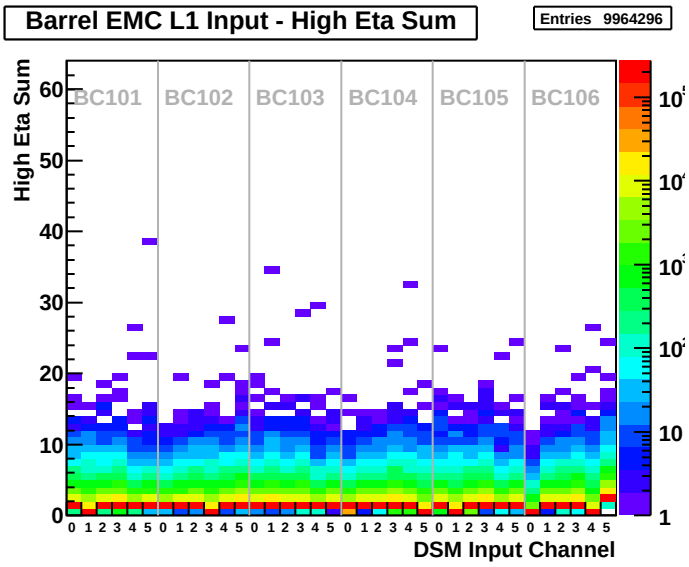
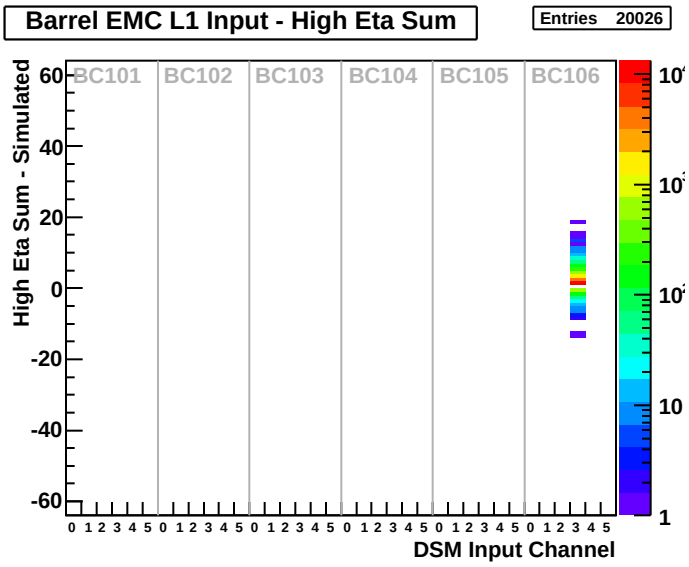
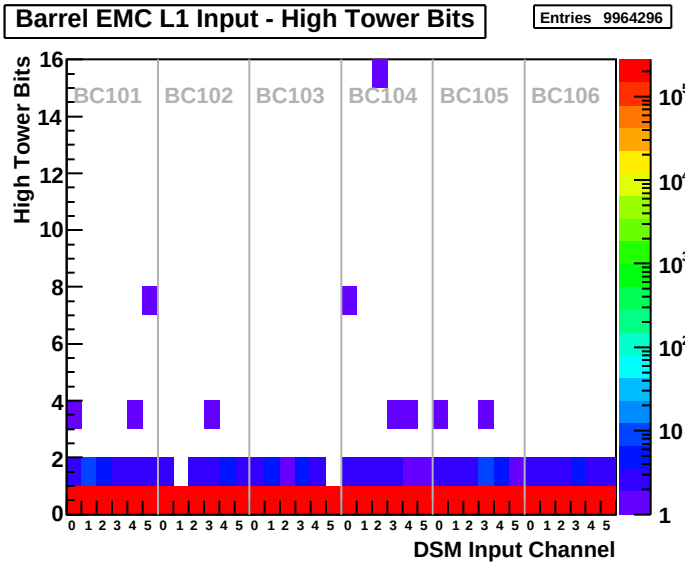
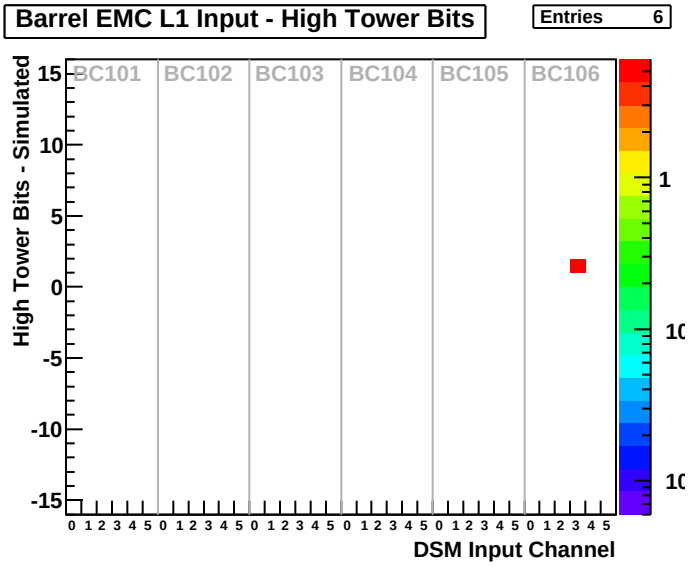

Barrel EMC L1 Input - Low Eta Sum
Entries 9964296
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

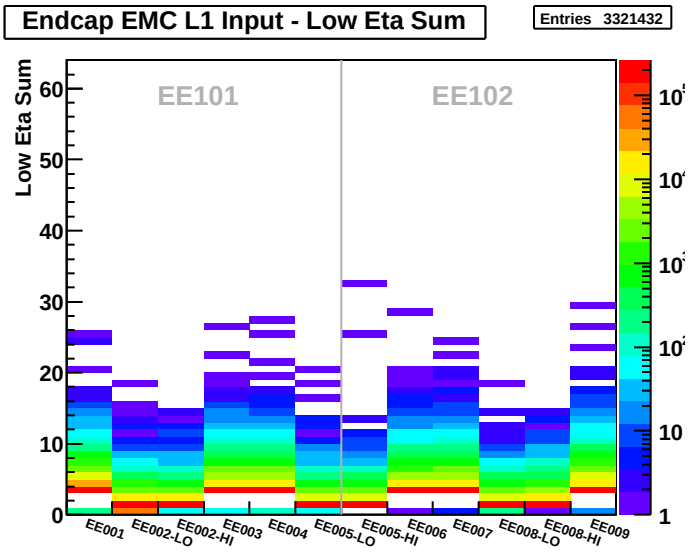

Barrel EMC L1 Input - Low Eta Sum
Entries 14437
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

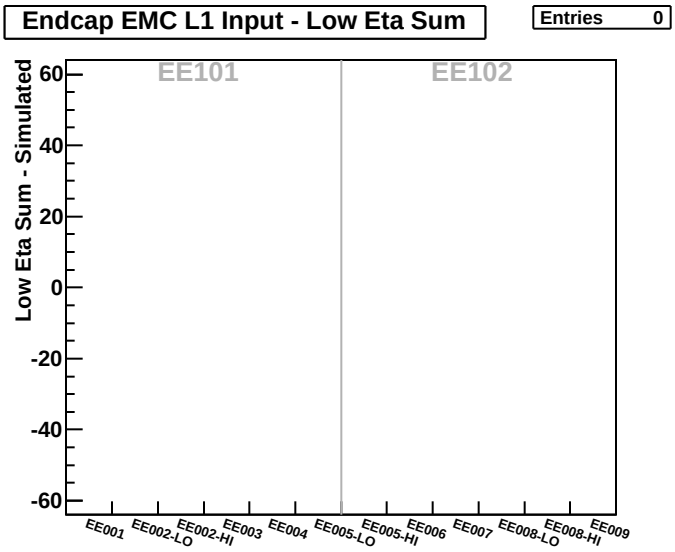

Barrel EMC L1 Input - High Eta Sum
Entries 9964296
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

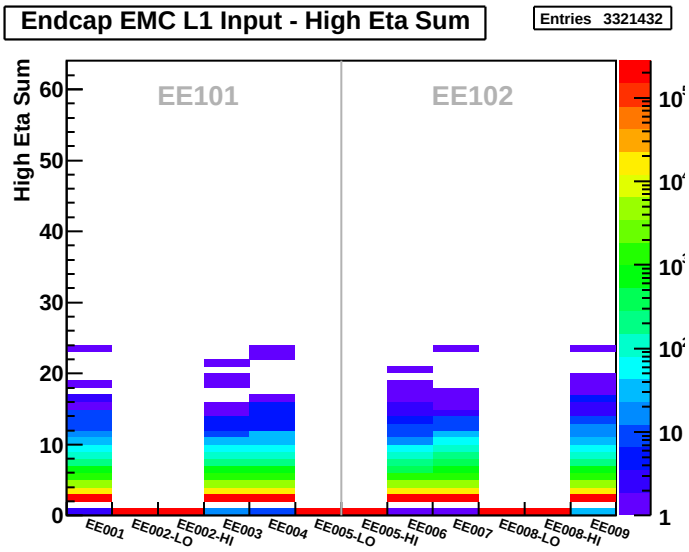

Barrel EMC L1 Input - High Eta Sum
Entries 20026
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

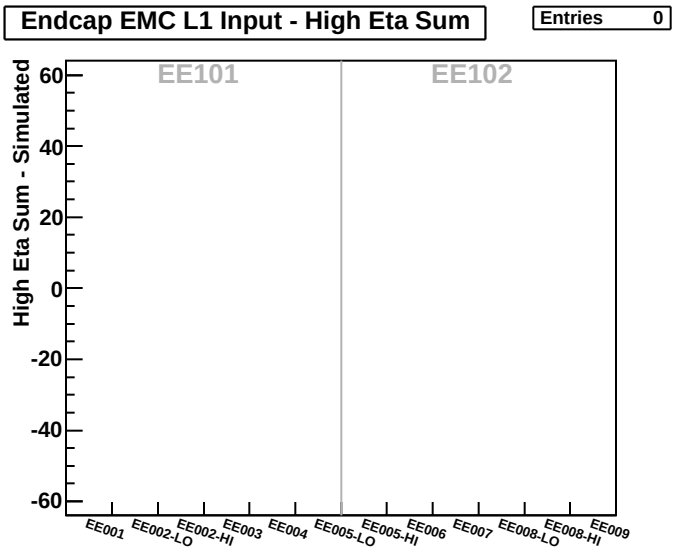

Barrel EMC L1 Input - High Tower Bits
Entries 9964296
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

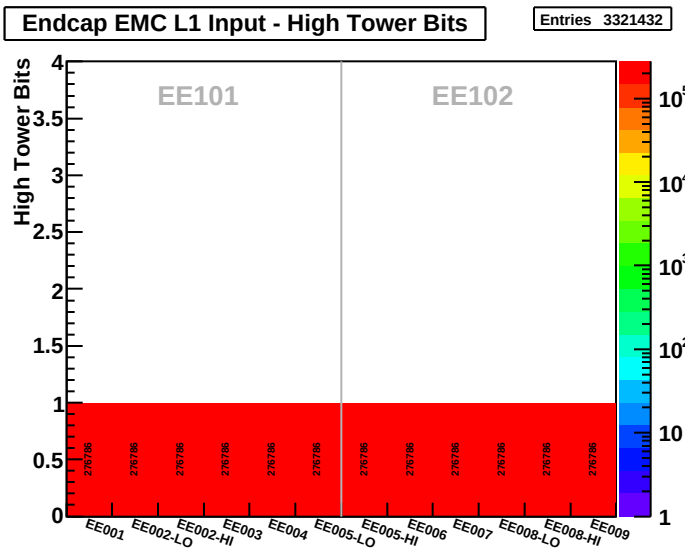

Barrel EMC L1 Input - High Tower Bits
Entries 6
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

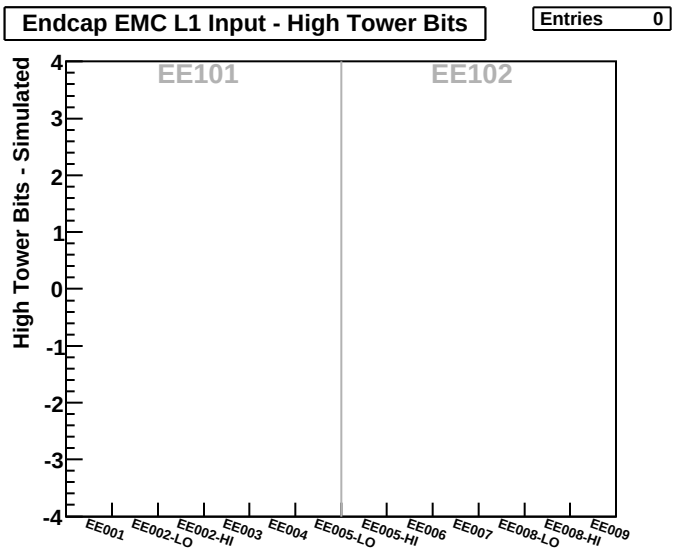

Endcap EMC L1 Input - Low Eta Sum
Entries 3321432
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

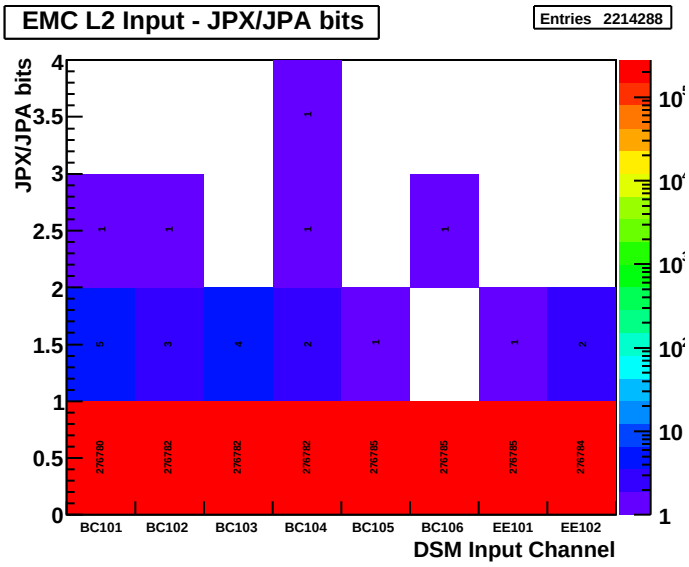

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

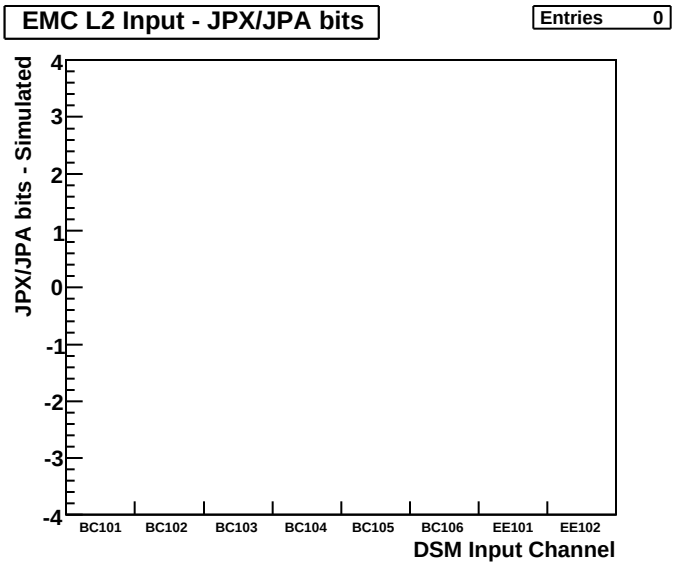

Endcap EMC L1 Input - High Eta Sum
Entries 3321432
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

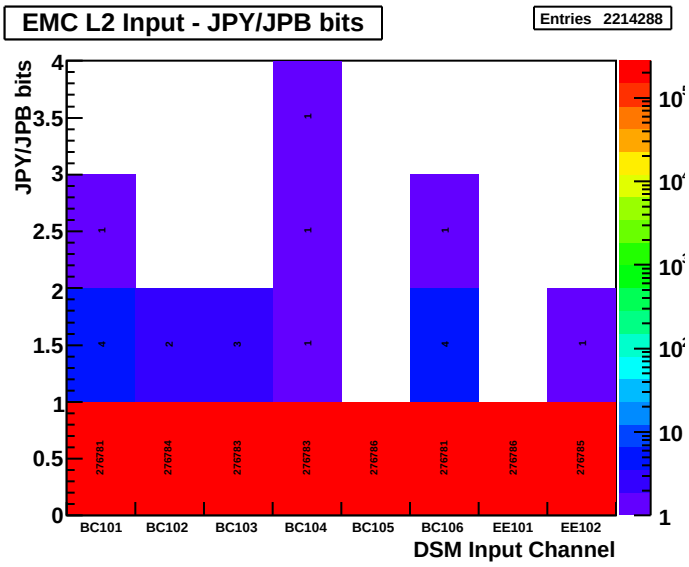

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

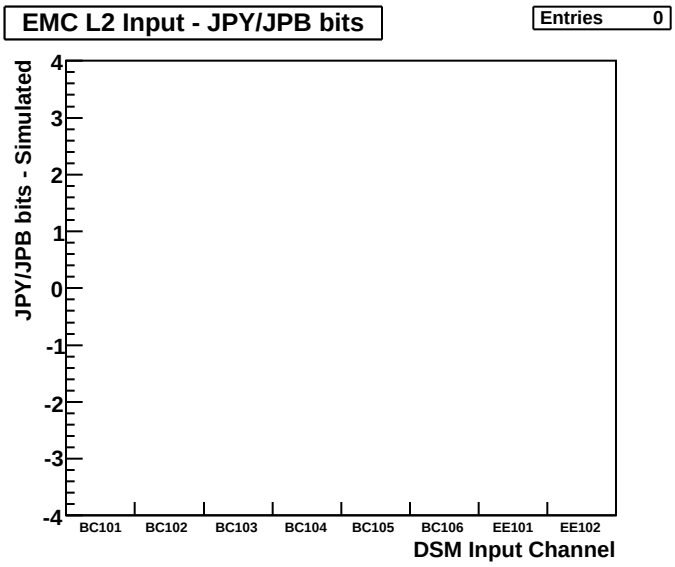

Endcap EMC L1 Input - High Tower Bits
Entries 3321432
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

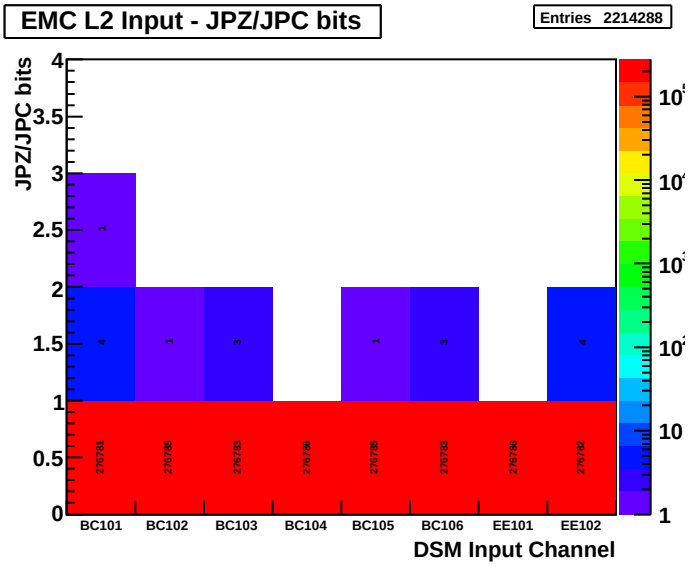

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

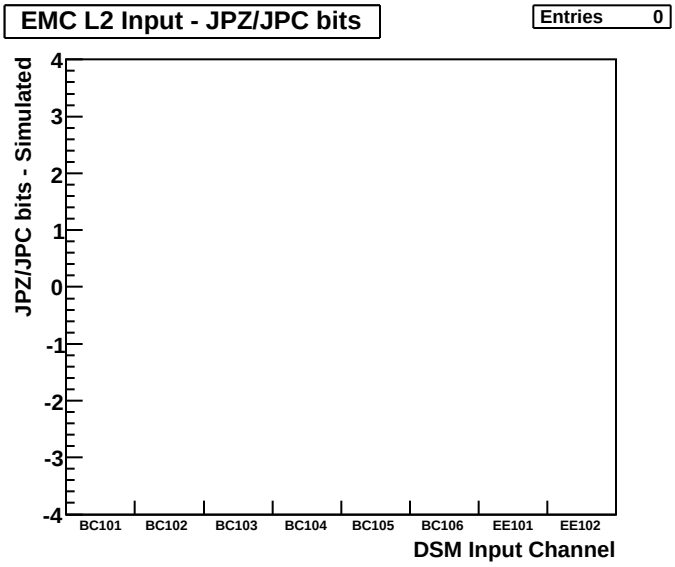

EMC L2 Input - JPX/JPA bits
Entries 2214288
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

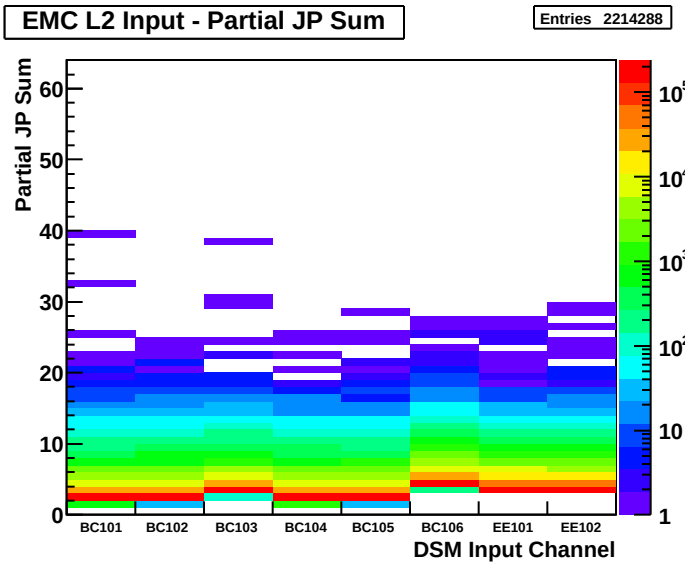

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

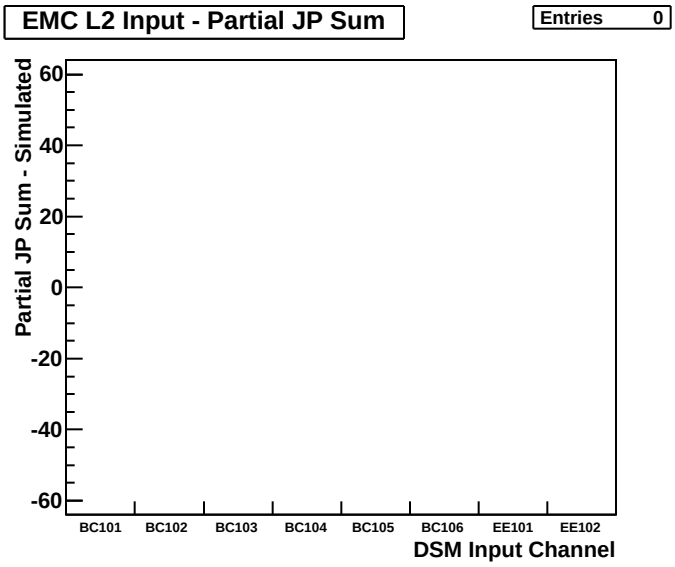

EMC L2 Input - JPY/JPB bits
Entries 2214288
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

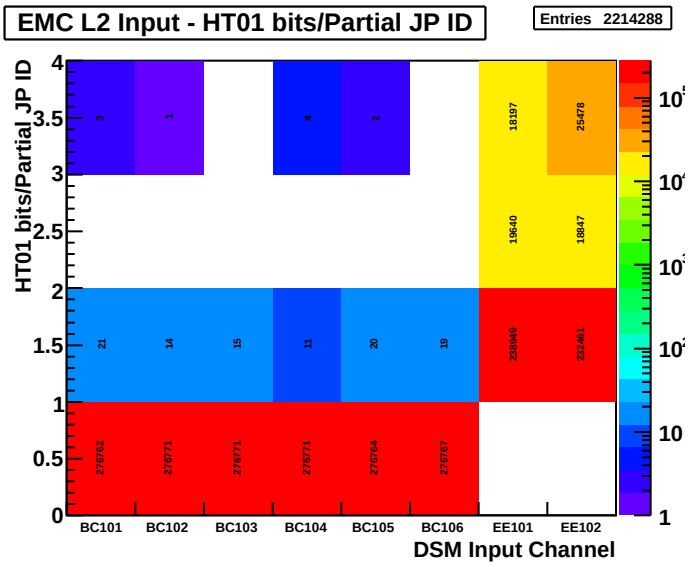

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

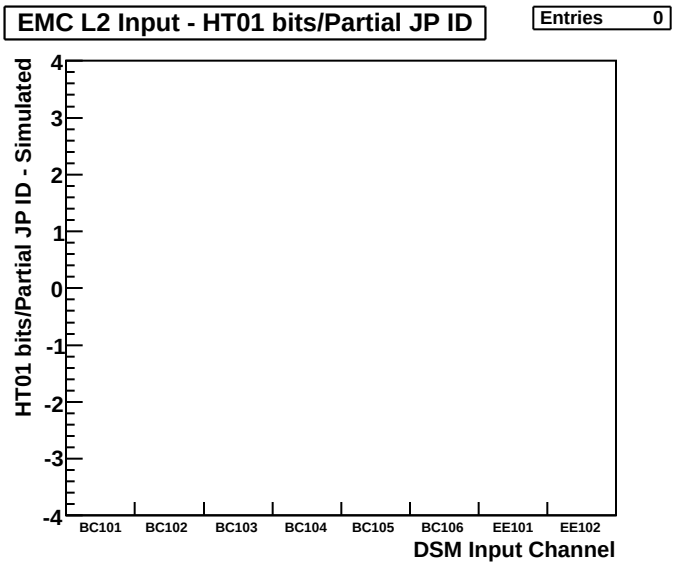

EMC L2 Input - JPZ/JPC bits
Entries 2214288
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

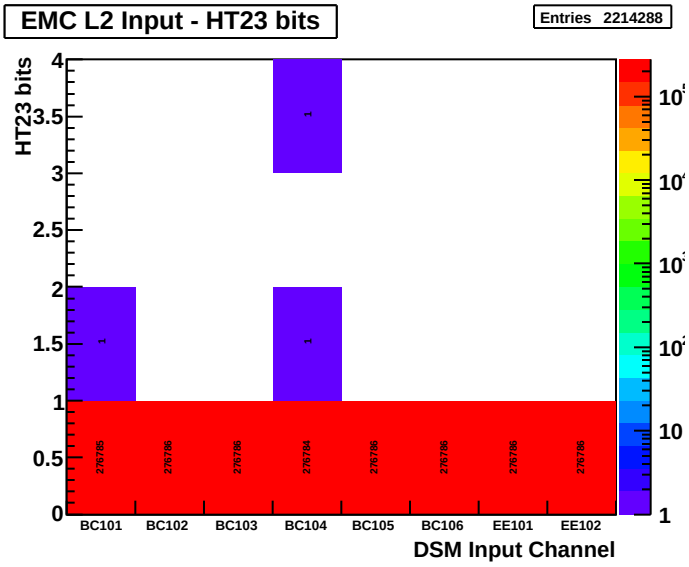

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

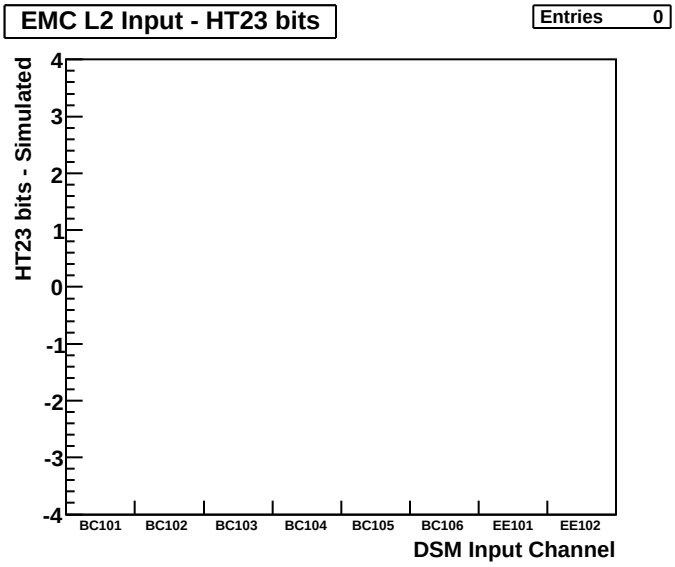

EMC L2 Input - Partial JP Sum
Entries 2214288
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

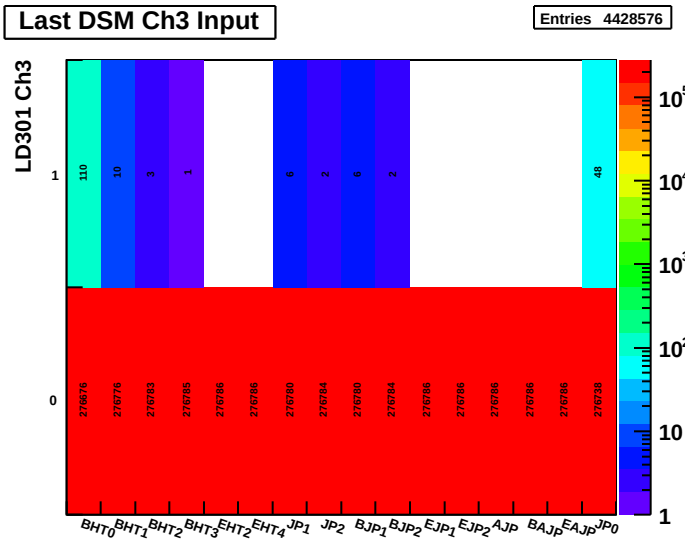

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

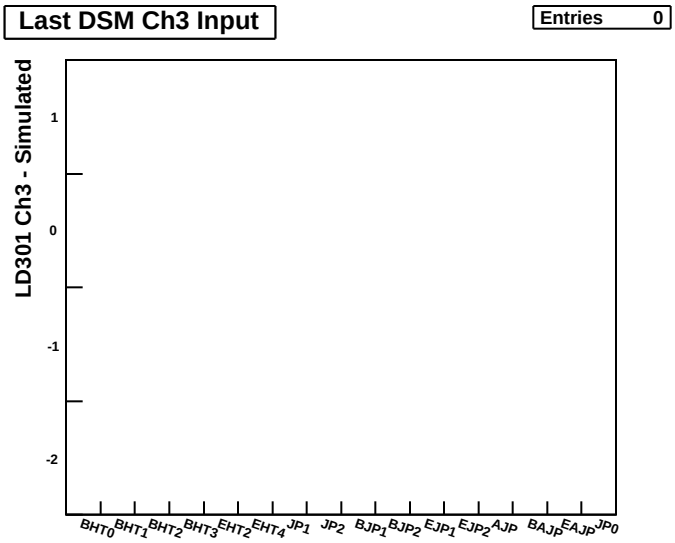

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2214288
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

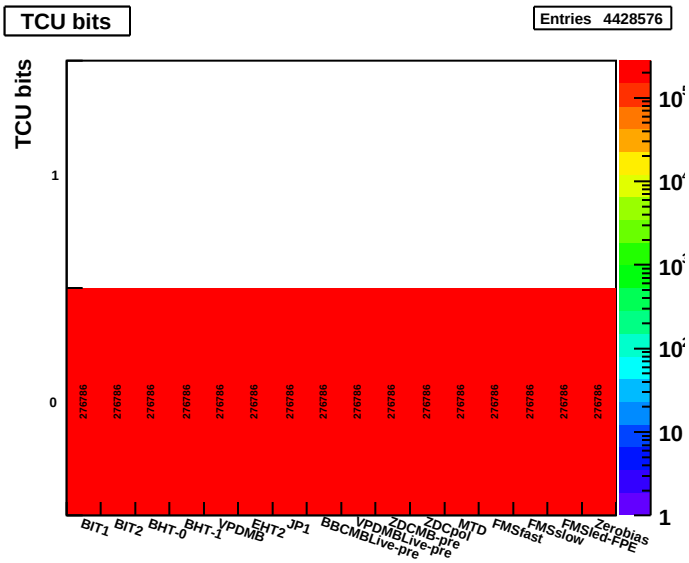

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

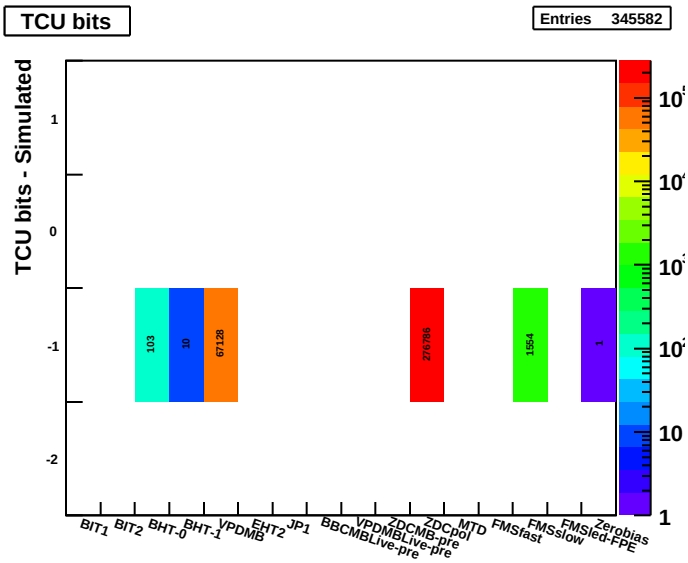

EMC L2 Input - HT23 bits
Entries 2214288
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

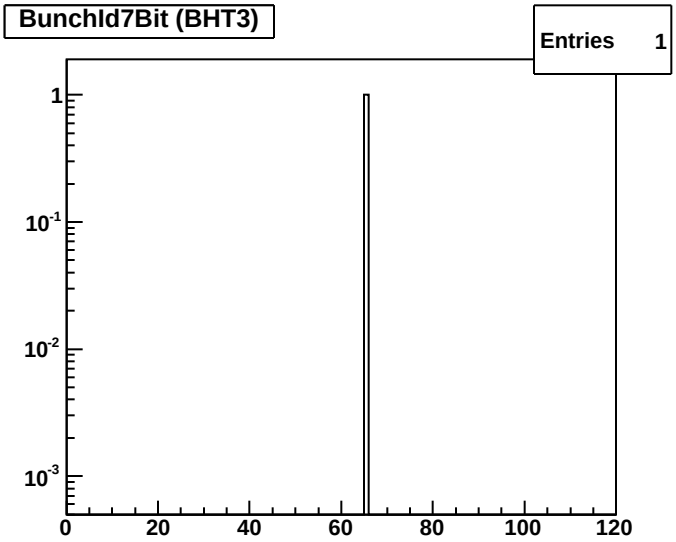

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

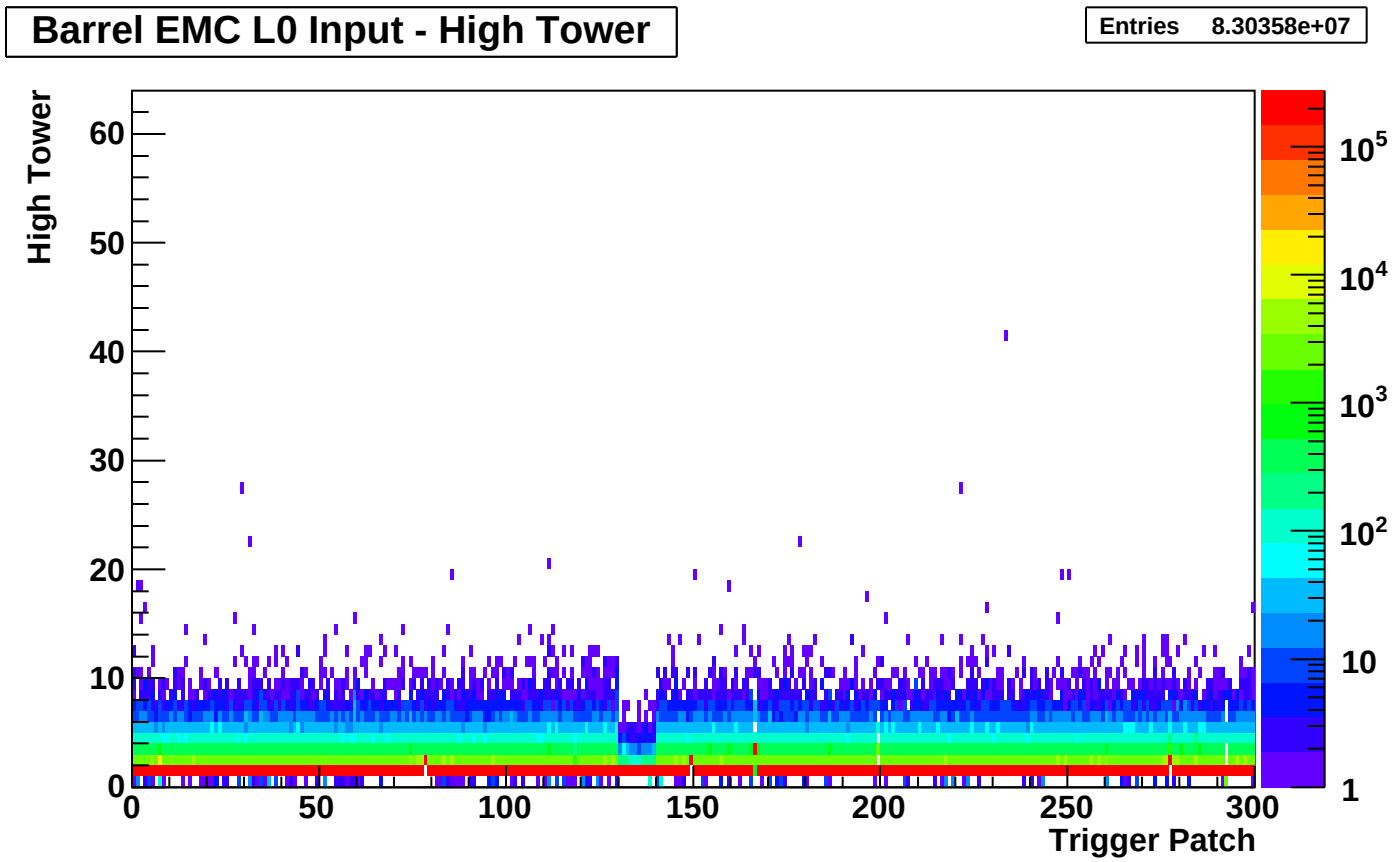

Last DSM Ch3 Input
Entries 4428576
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

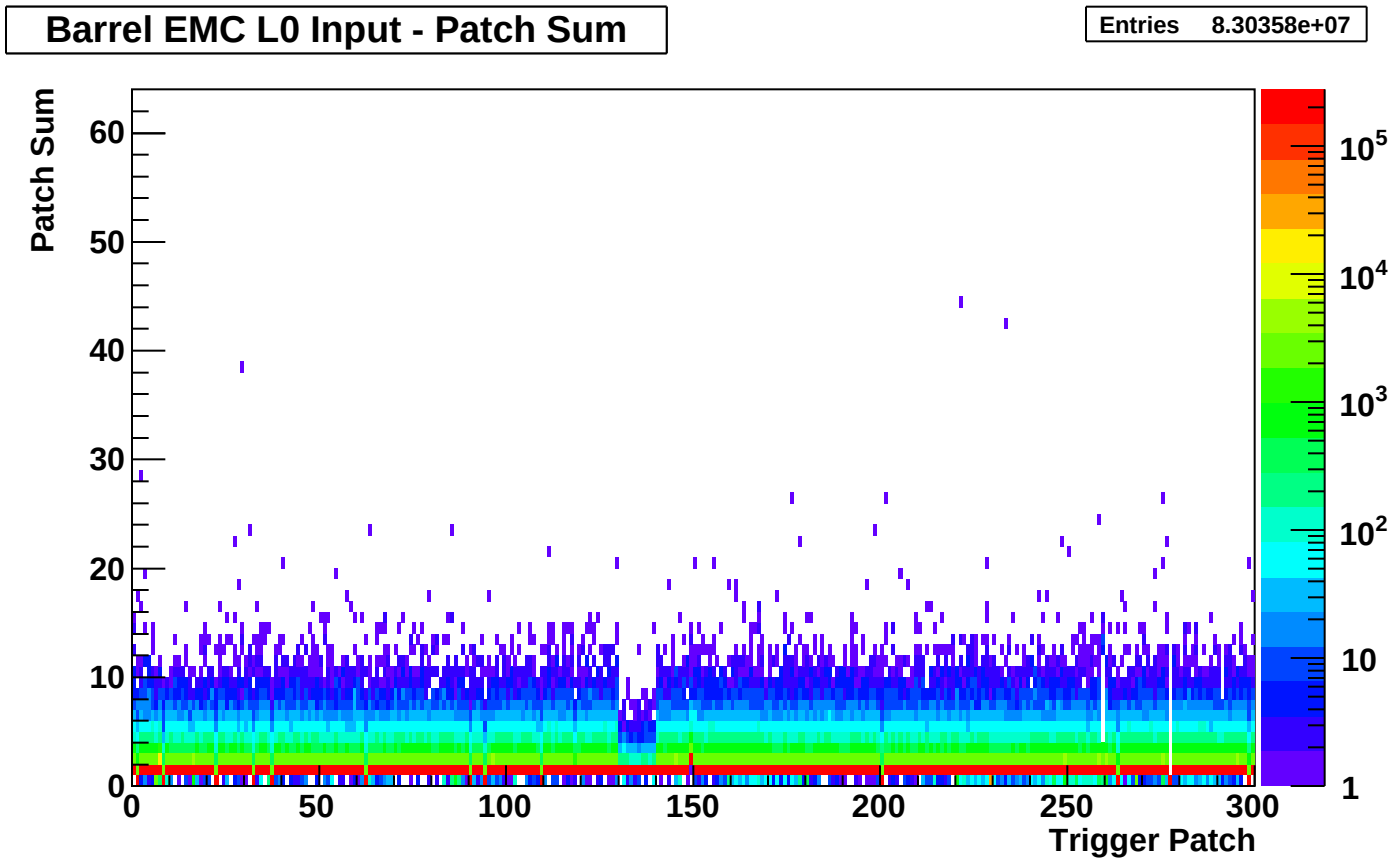

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

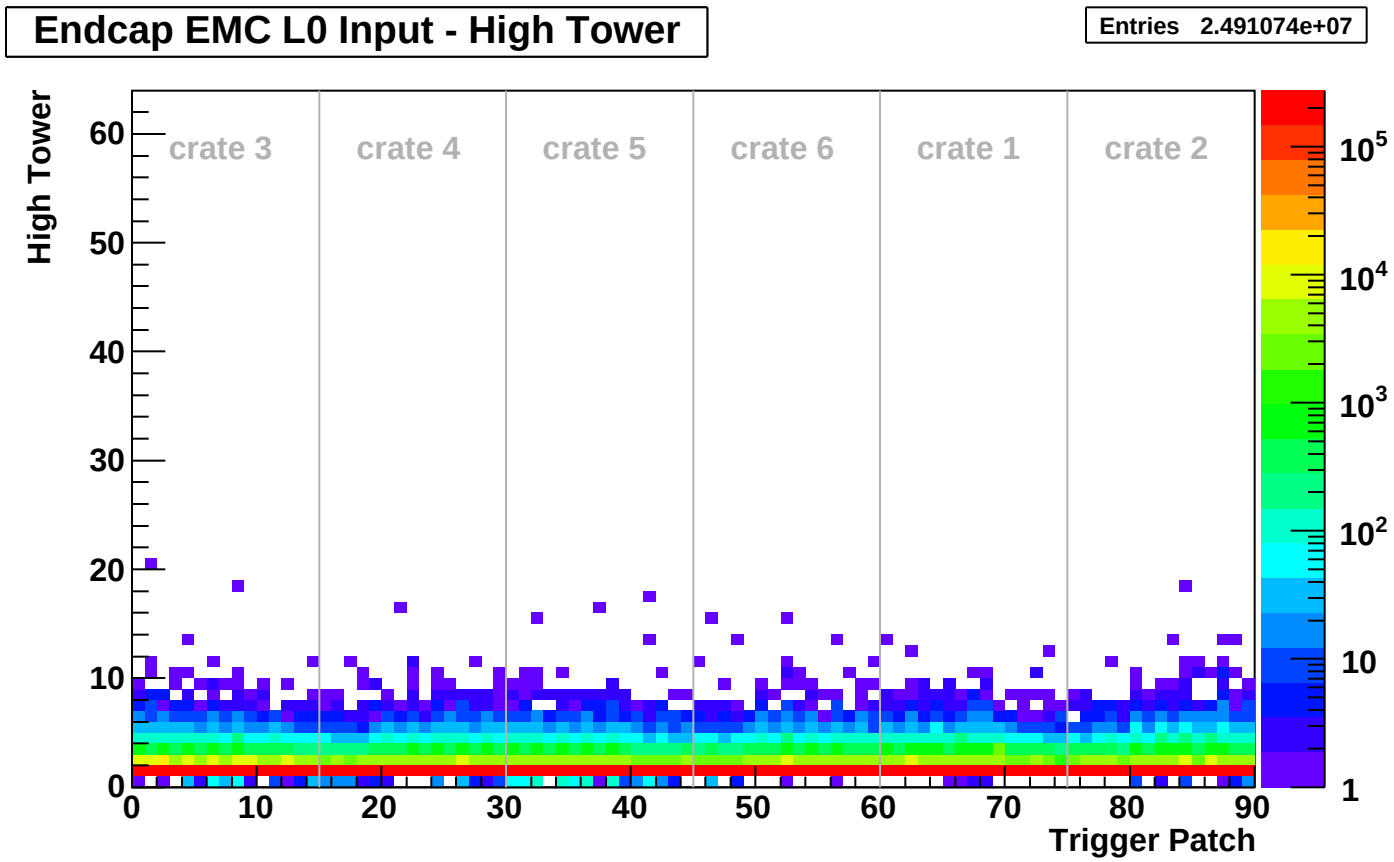

TCU bits
Entries 4428576
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

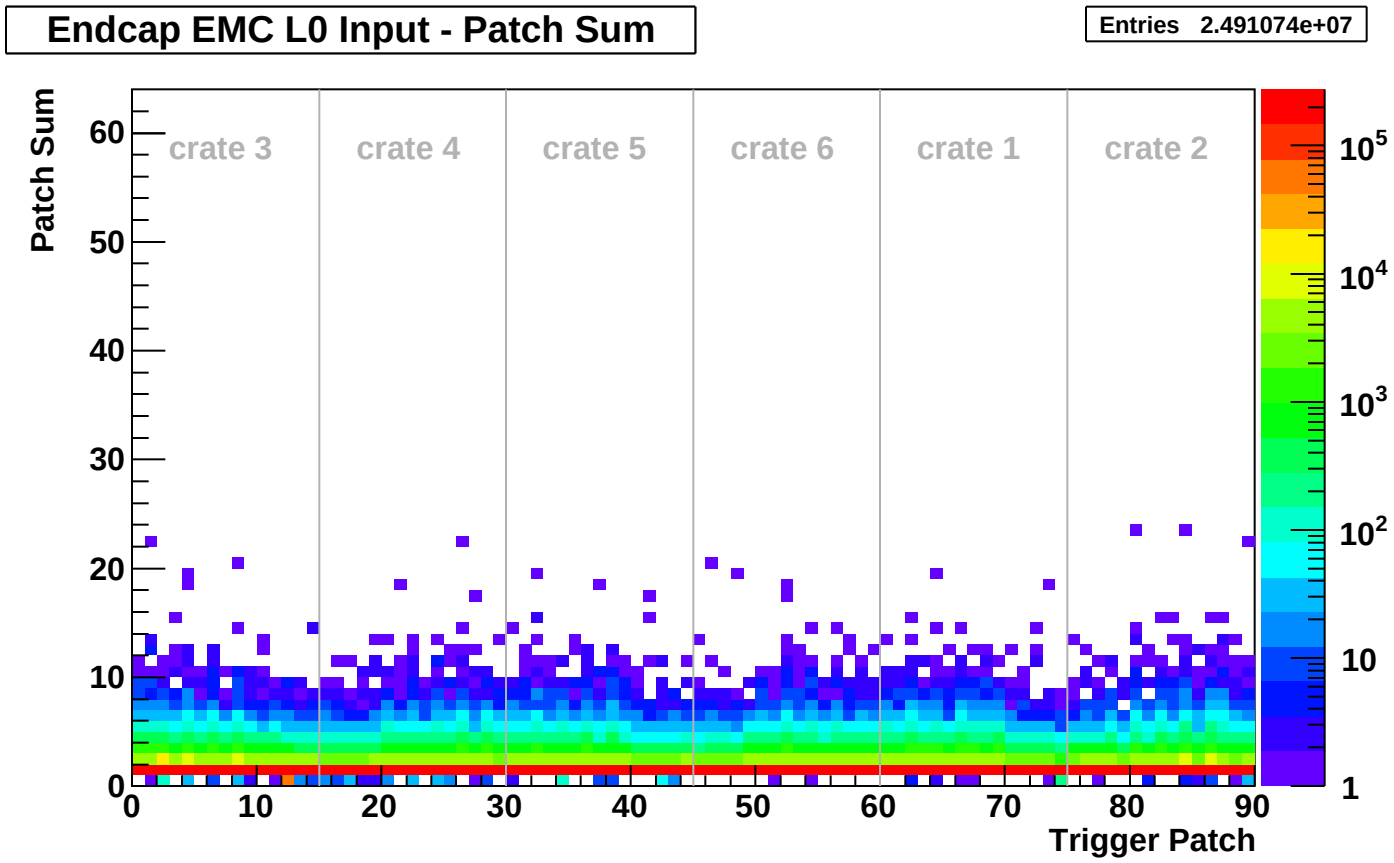

TCU bits
Entries 345582
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

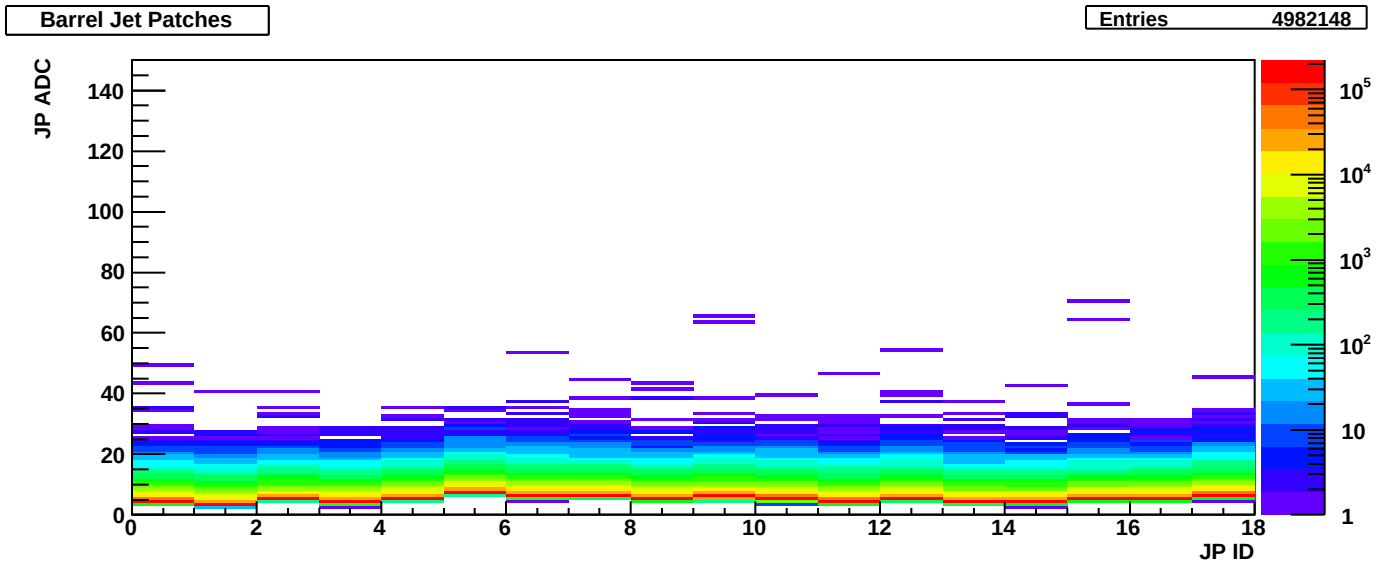

BunchId7Bit (BHT3)
Entries 1

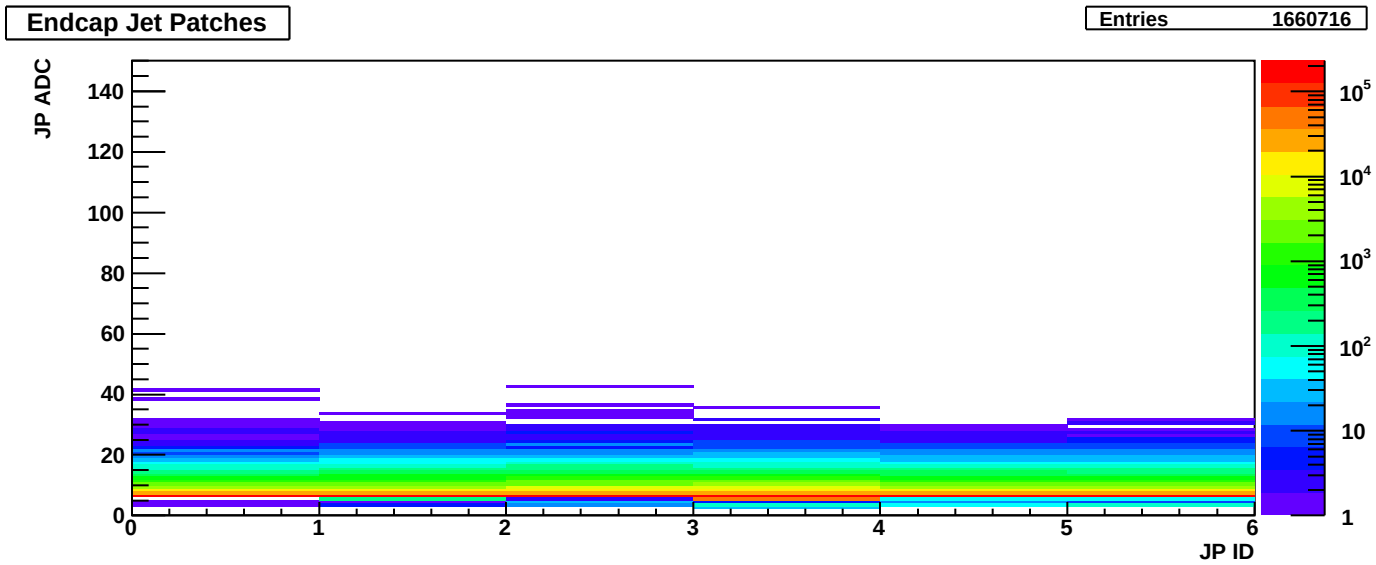

Barrel EMC L0 Input - High Tower
Entries 8.30358e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

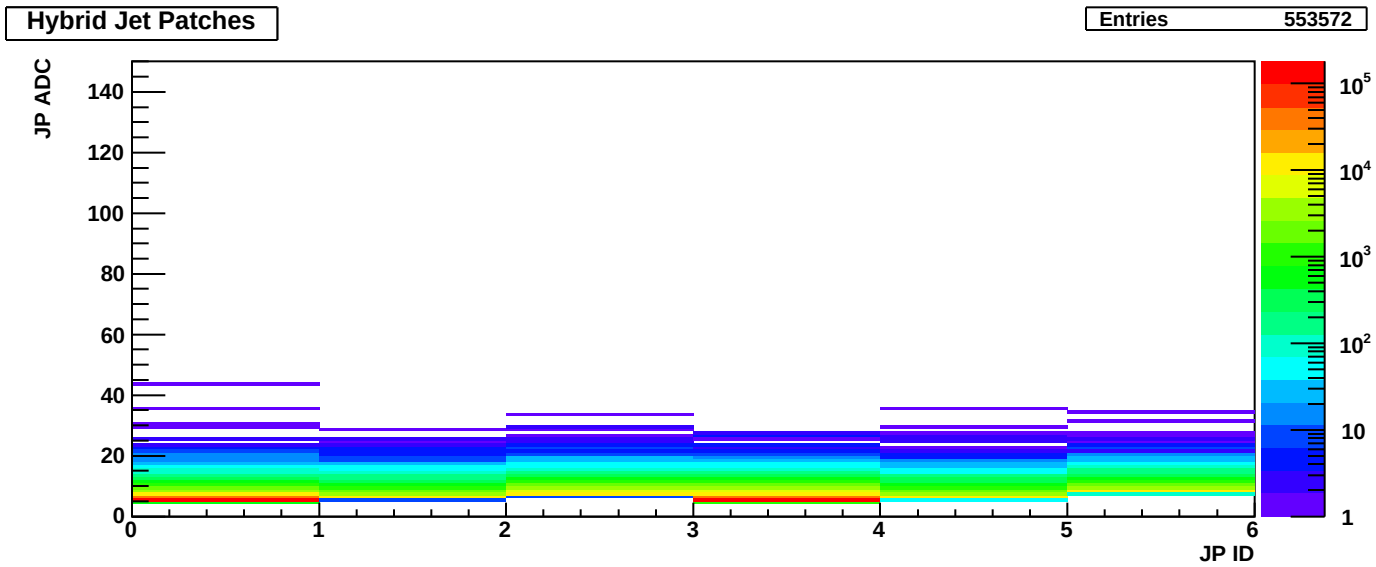

Barrel EMC L0 Input - Patch Sum
Entries 8.30358e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

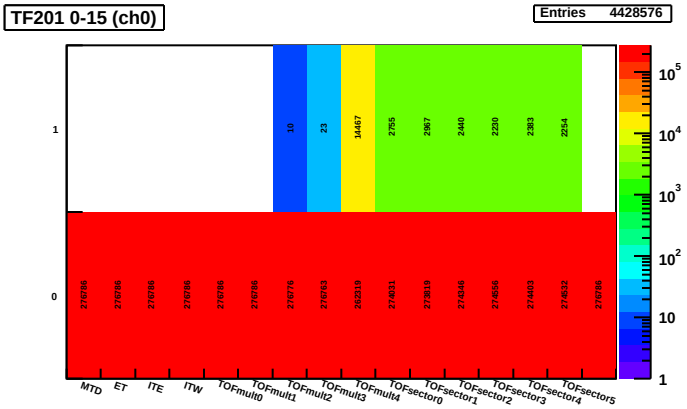

Endcap EMC L0 Input - High Tower
Entries 2.491074e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

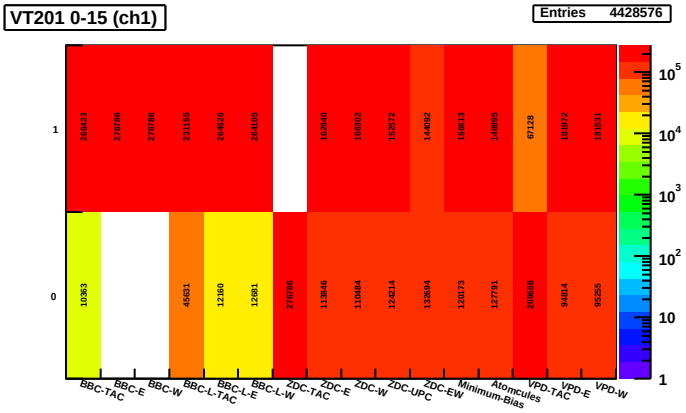

Endcap EMC L0 Input - Patch Sum
Entries 2.491074e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

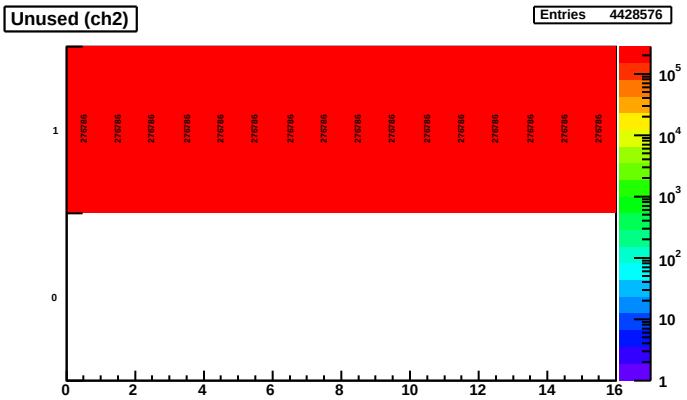

Barrel Jet Patches
Entries 4982148
JP ADC
JP ID

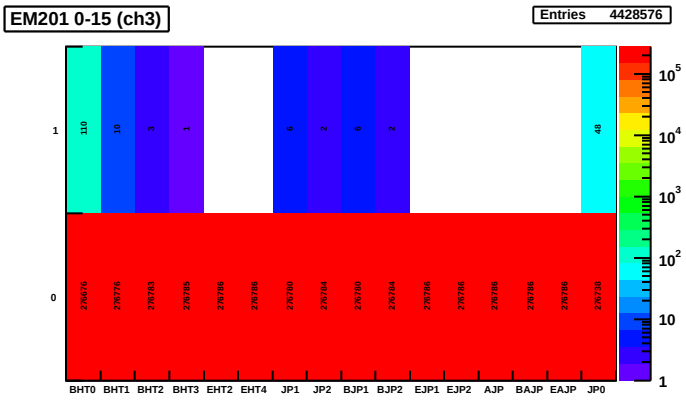

Endcap Jet Patches
Entries 1660716
JP ADC
JP ID

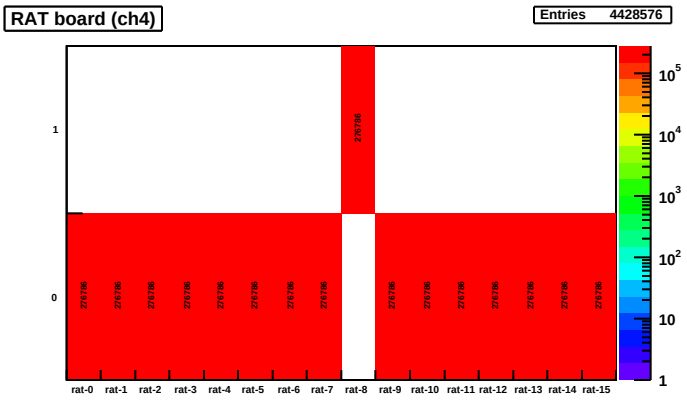

Hybrid Jet Patches
Entries 553572
JP ADC
JP ID

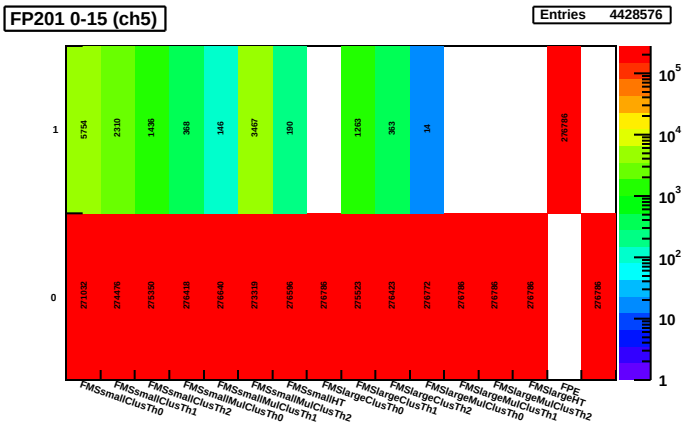

TF201 0-15 (ch0)
Entries 4428576
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

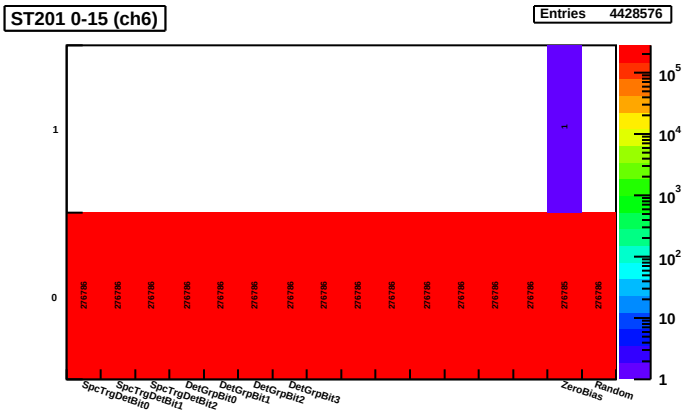

VT201 0-15 (ch1)
Entries 4428576
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

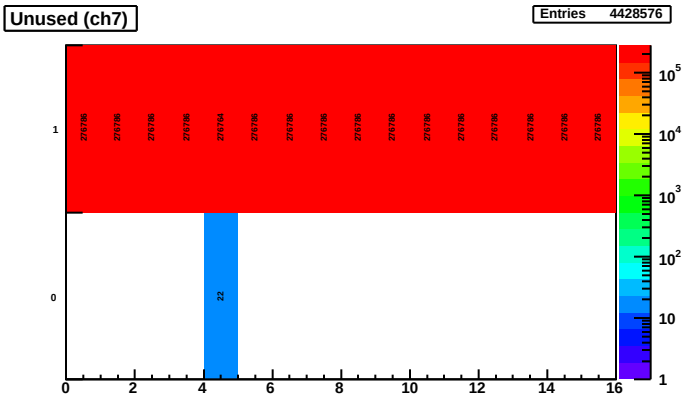

Unused (ch2)
Entries 4428576

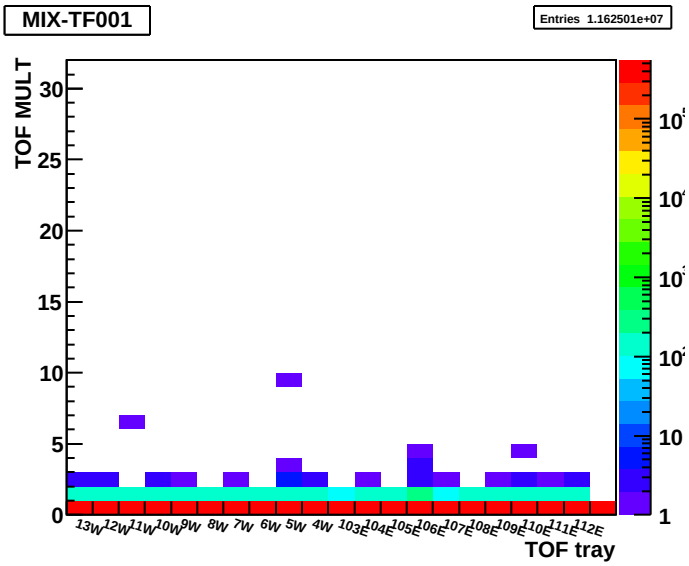

EM201 0-15 (ch3)
Entries 4428576
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

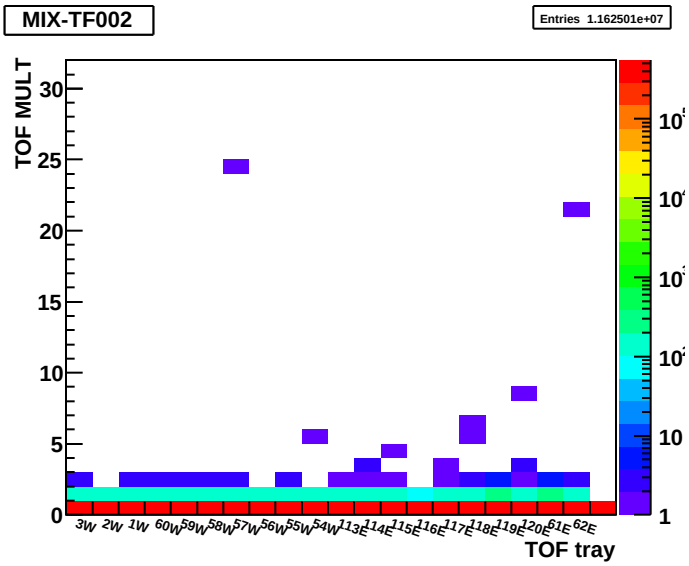

RAT board (ch4)
Entries 4428576
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

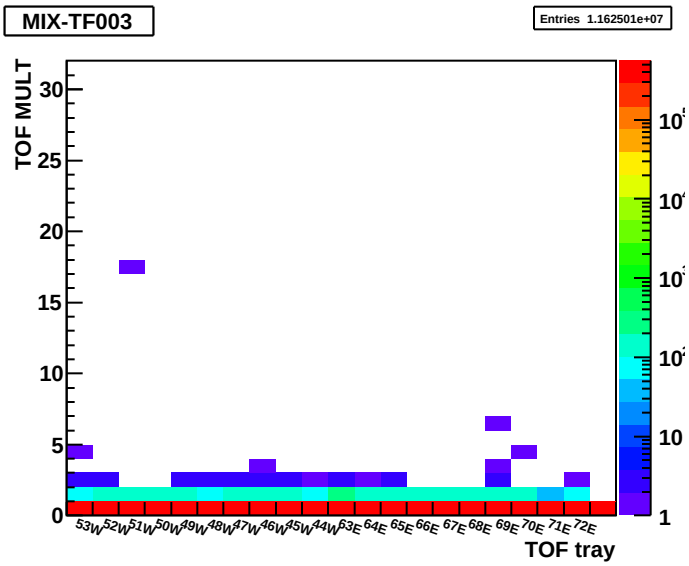

FP201 0-15 (ch5)
Entries 4428576
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

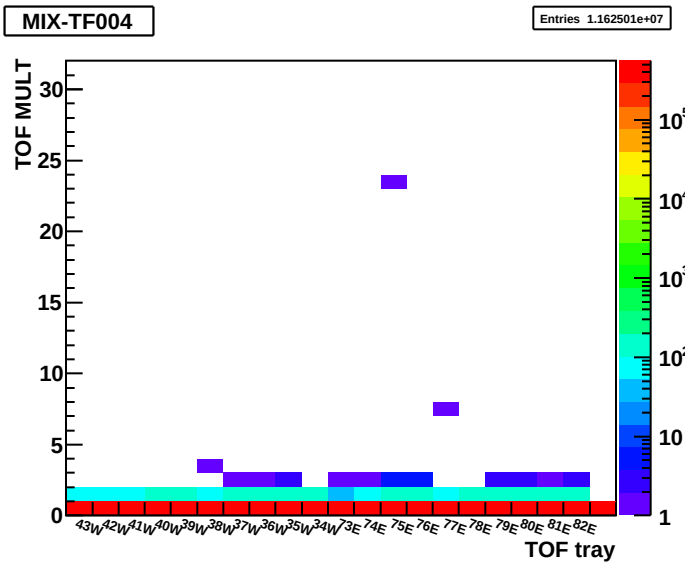

ST201 0-15 (ch6)
Entries 4428576
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

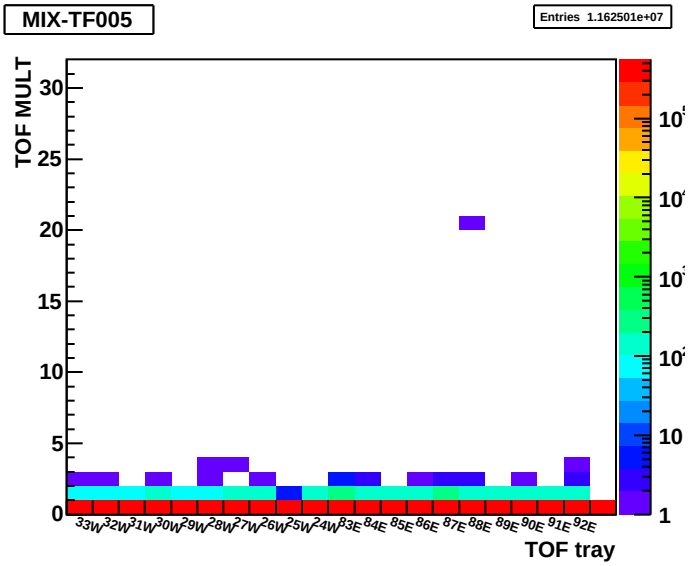

Unused (ch7)
Entries 4428576

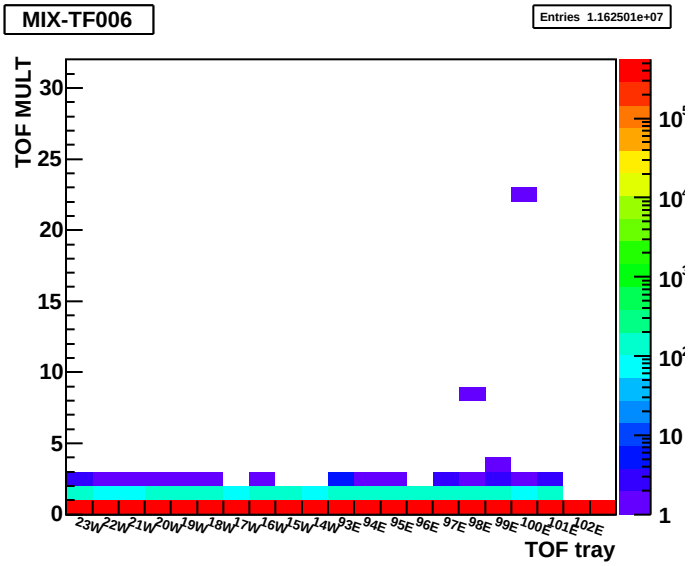

MIX-TF001
Entries 1.162501e+07
TOF MULT
TOF tray

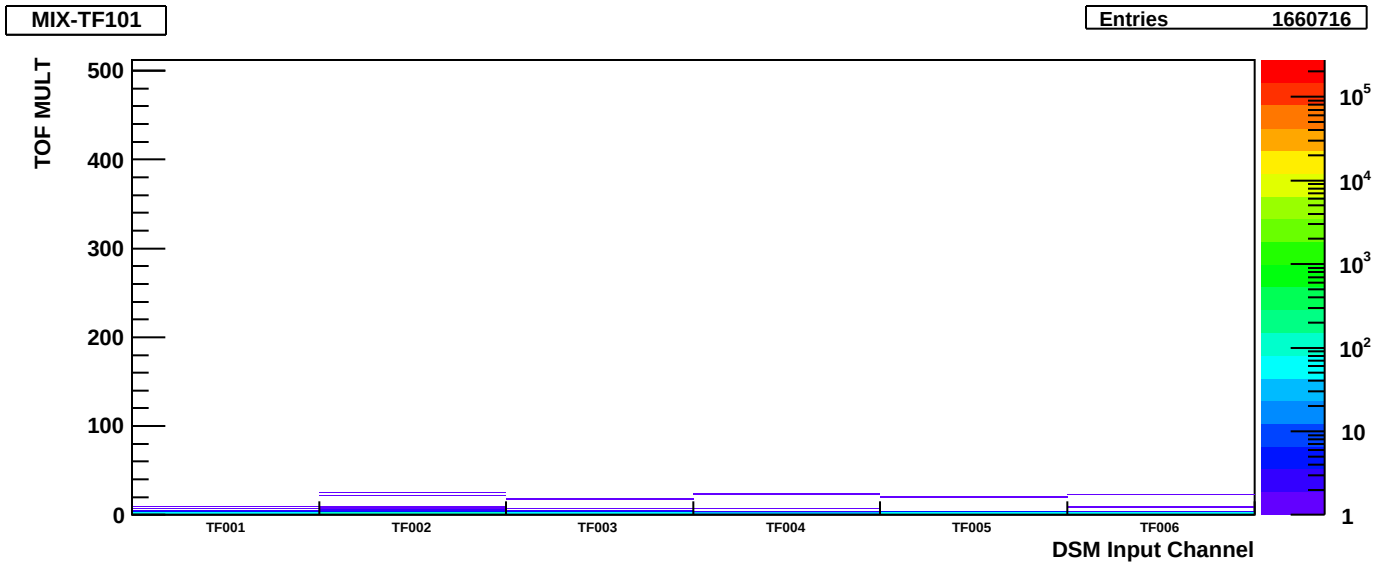

MIX-TF002
Entries 1.162501e+07
TOF MULT
TOF tray

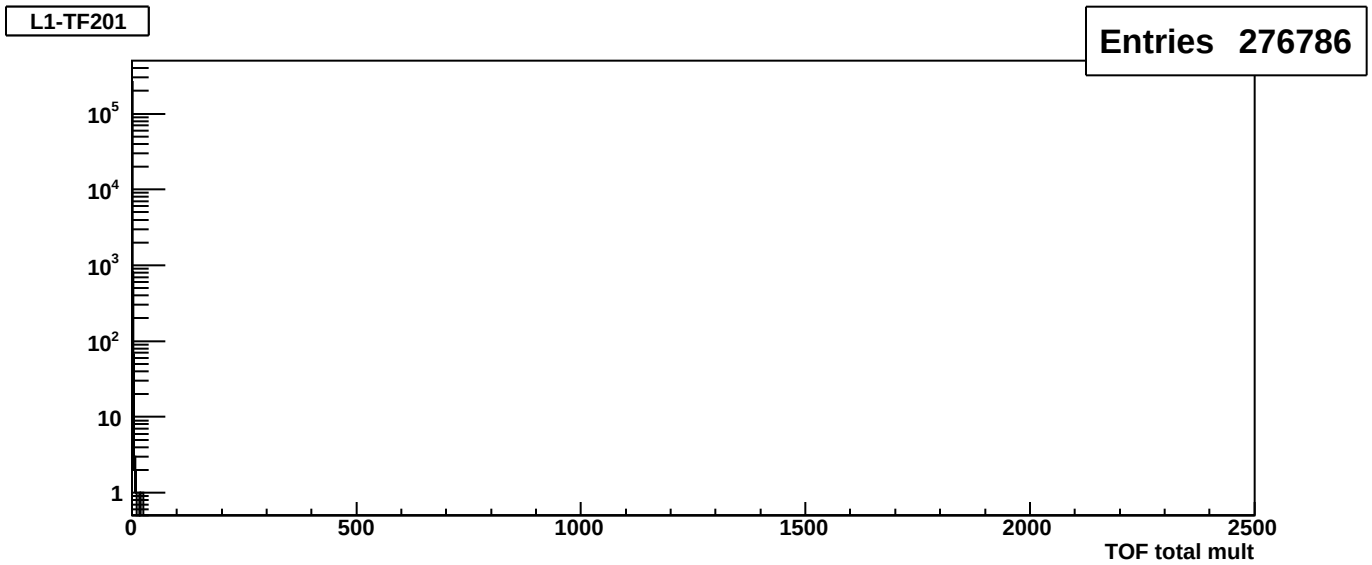

MIX-TF003
Entries 1.162501e+07
TOF MULT
TOF tray

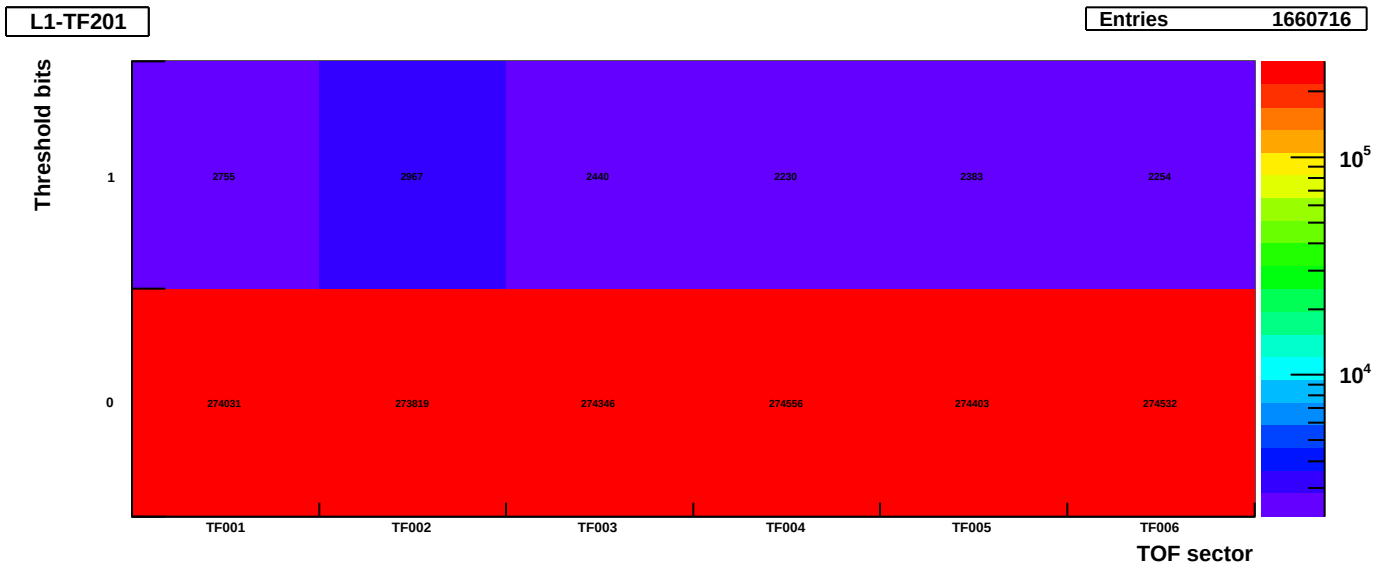

MIX-TF004
Entries 1.162501e+07
TOF MULT
TOF tray

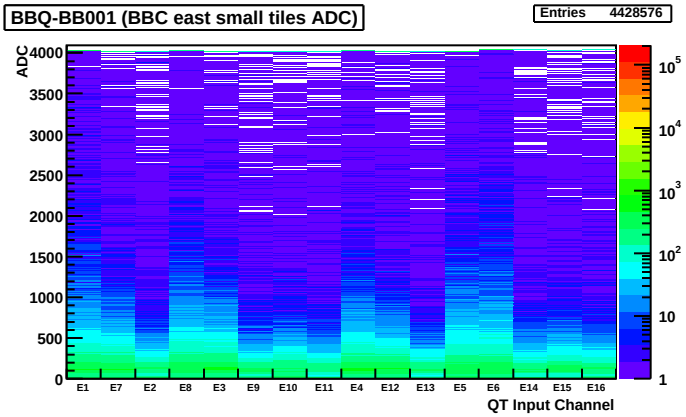

MIX-TF005
Entries 1.162501e+07
TOF MULT
TOF tray

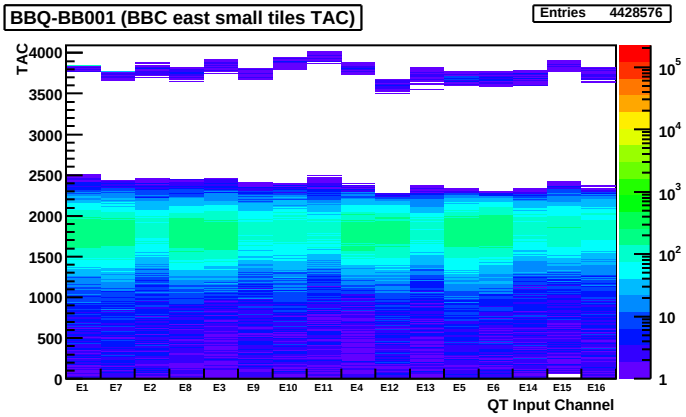

MIX-TF006
Entries 1.162501e+07
TOF MULT
TOF tray

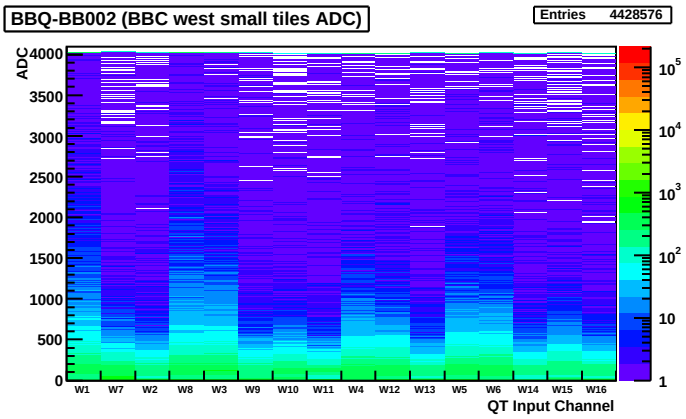

MIX-TF101
Entries 1660716
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

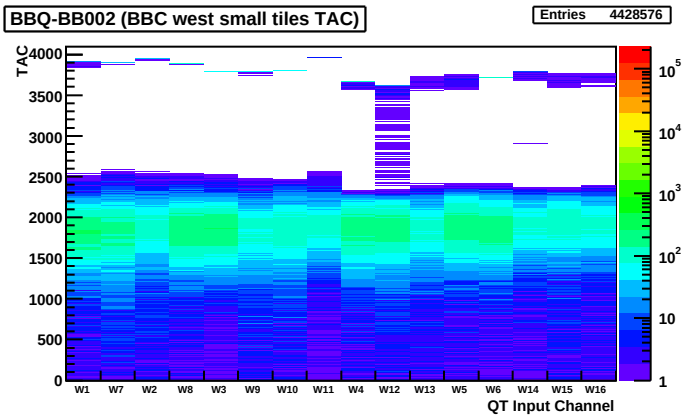

L1-TF201
Entries 276786
10^5
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

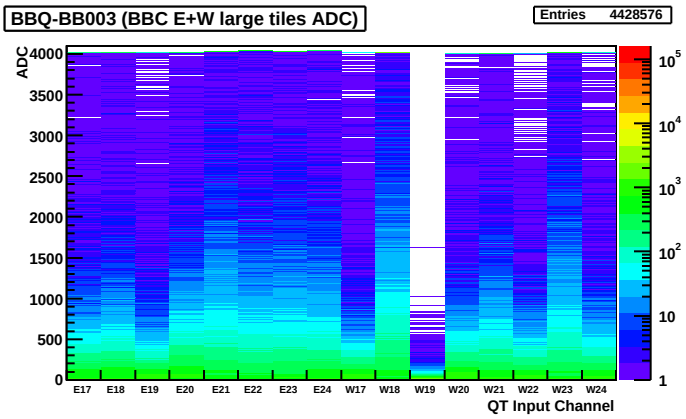

L1-TF201
Entries 1660716
Threshold bits
1
0
2755
2967
2440
2230
2383
2254
274031
273819
274346
274556
274403
274532
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5
10^4

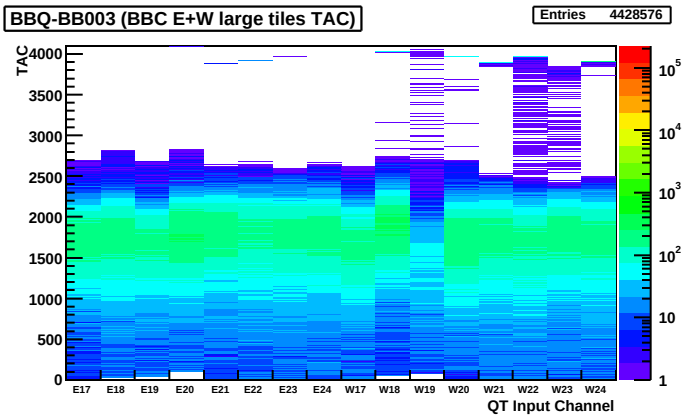

BBQ-BB001 (BBC east small tiles ADC)
Entries 4428576
ADC
QT Input Channel

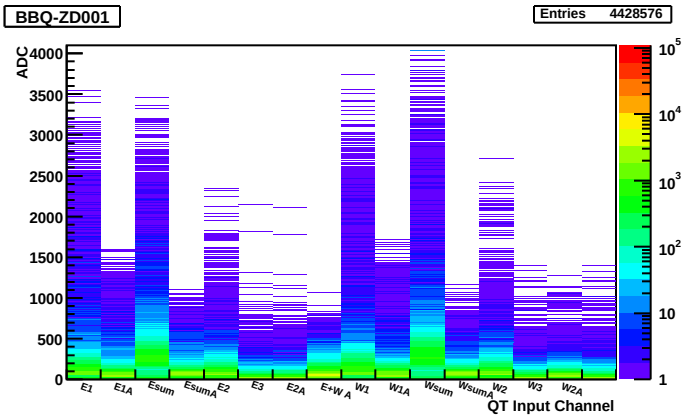

BBQ-BB001 (BBC east small tiles TAC)
Entries 4428576
TAC
QT Input Channel

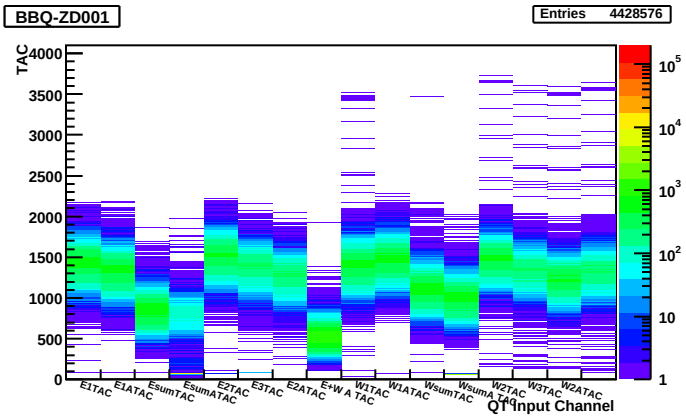

BBQ-BB002 (BBC west small tiles ADC)
Entries 4428576
ADC
QT Input Channel

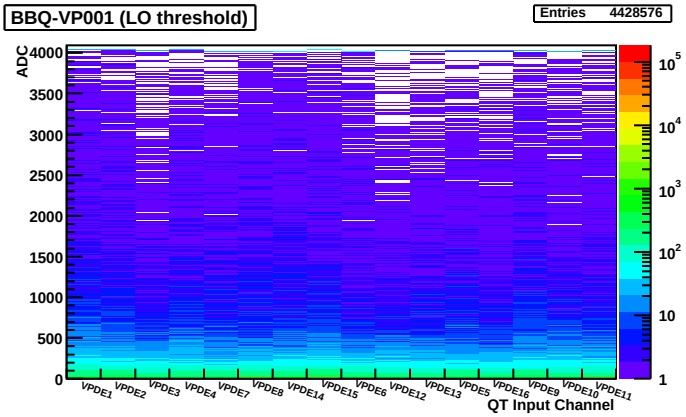

BBQ-BB002 (BBC west small tiles TAC)
Entries 4428576
TAC
QT Input Channel

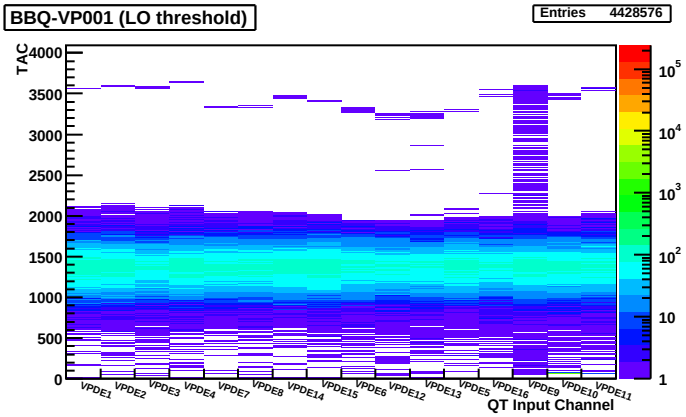

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 4428576
ADC
QT Input Channel

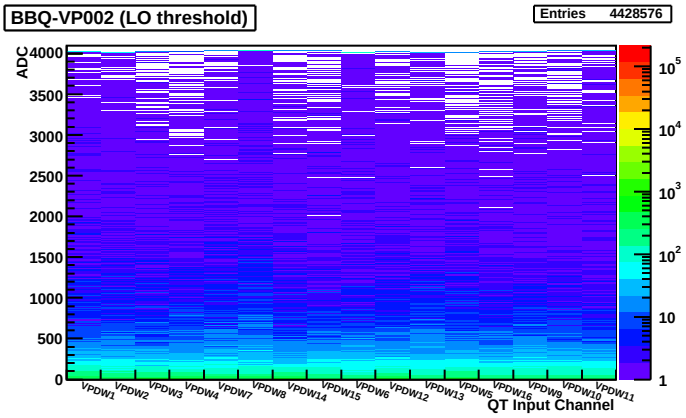

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 4428576
TAC
QT Input Channel

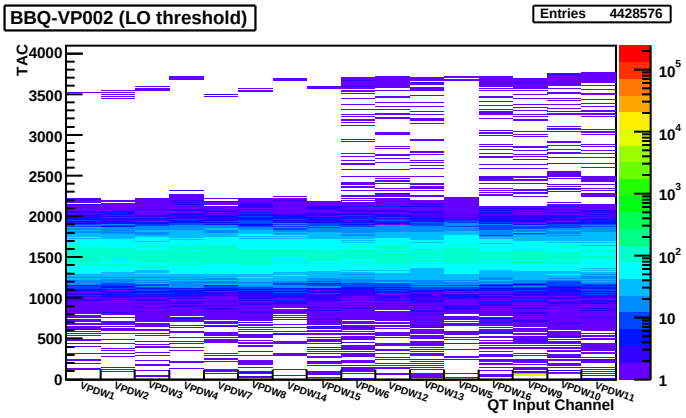

BBQ-ZD001
Entries 4428576
ADC
QT Input Channel

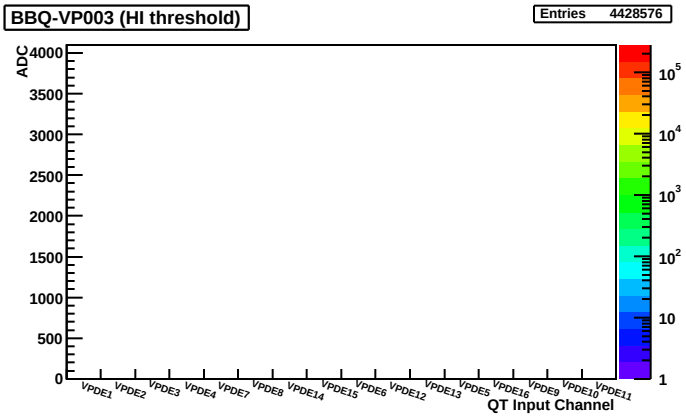

BBQ-ZD001
Entries 4428576
TAC
QT Input Channel

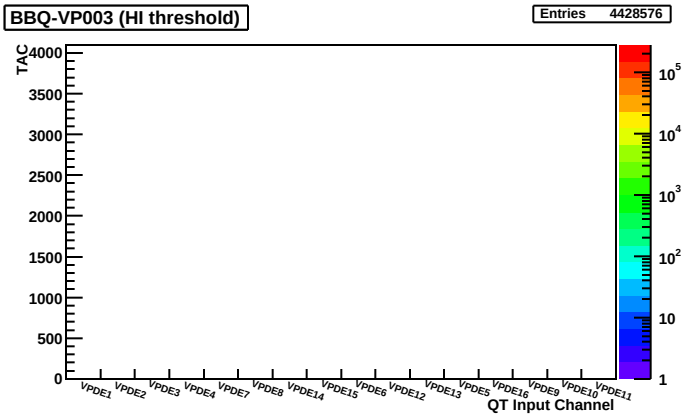

BBQ-VP001 (LO threshold)
Entries 4428576
ADC
QT Input Channel

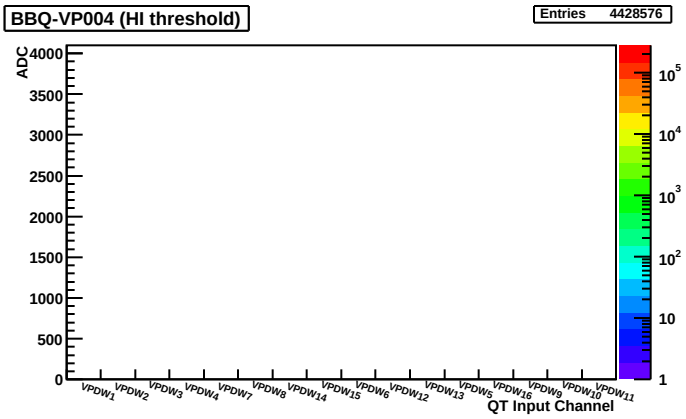

BBQ-VP001 (LO threshold)
Entries 4428576
TAC
QT Input Channel

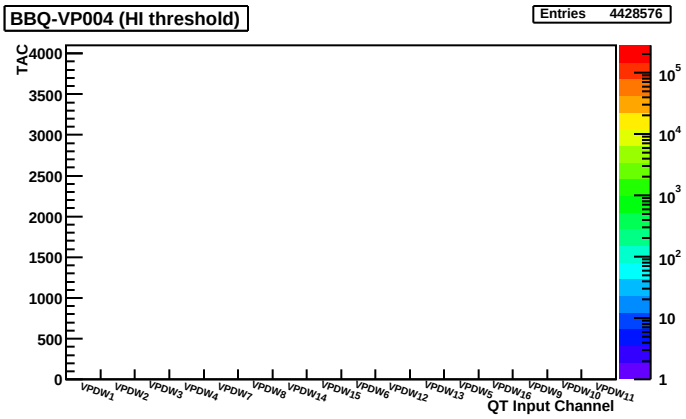

BBQ-VP002 (LO threshold)
Entries 4428576
ADC
QT Input Channel

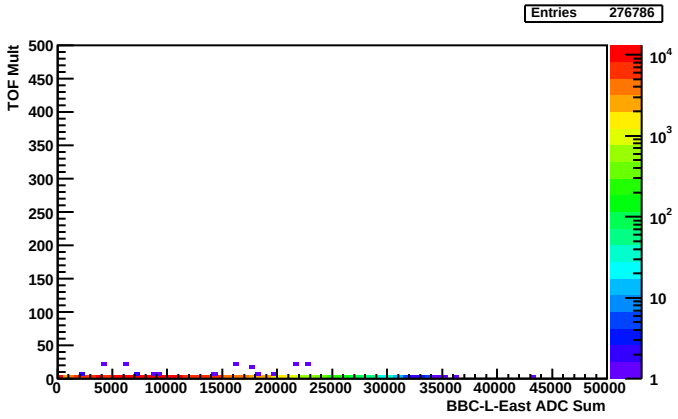

BBQ-VP002 (LO threshold)
Entries 4428576
TAC
QT Input Channel

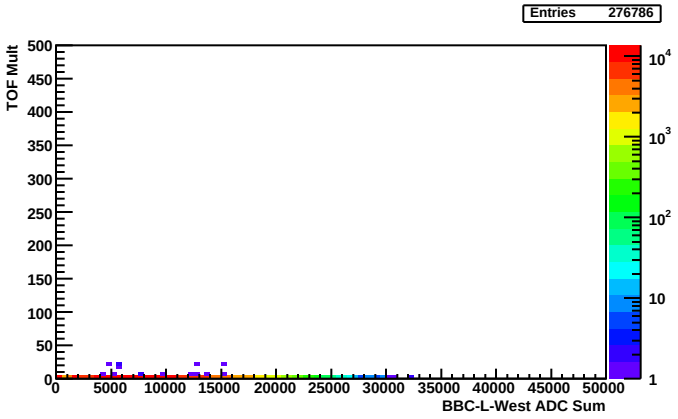

BBQ-VP003 (HI threshold)
Entries 4428576
ADC
QT Input Channel

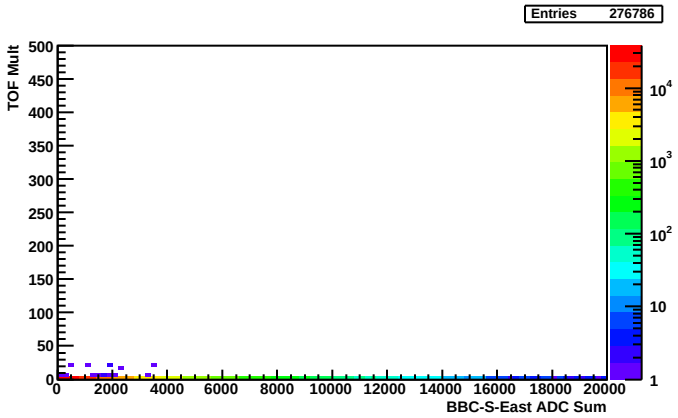

BBQ-VP003 (HI threshold)
Entries 4428576
TAC
QT Input Channel

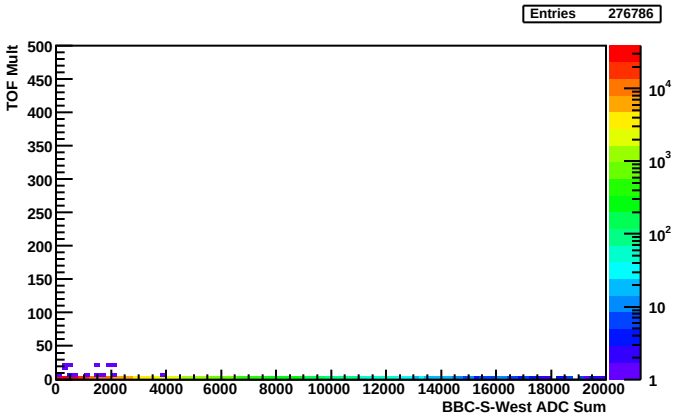

BBQ-VP004 (HI threshold)
Entries 4428576
ADC
QT Input Channel

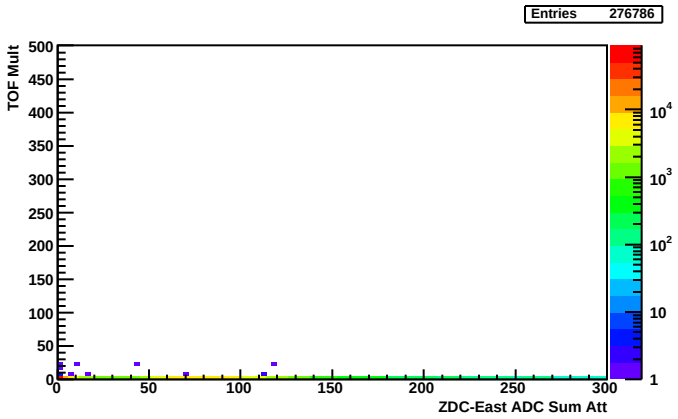

BBQ-VP004 (HI threshold)
Entries 4428576
TAC
QT Input Channel

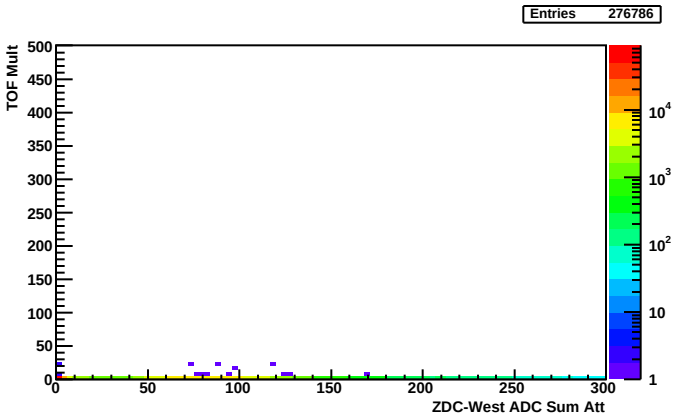

Entries 276786
TOF Mult
BBC-L-East ADC Sum

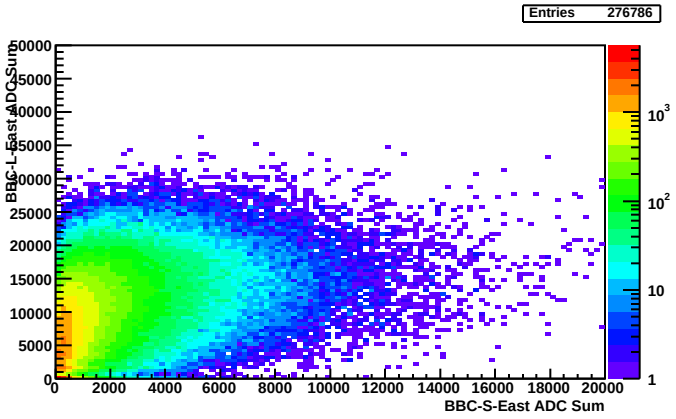

Entries 276786
TOF Mult
BBC-L-West ADC Sum

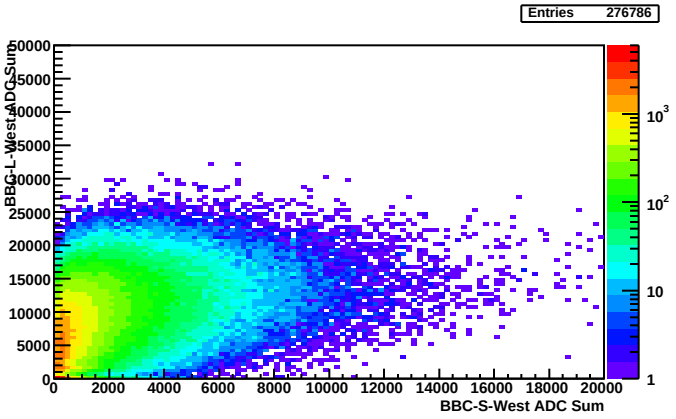

Entries 276786
TOF Mult
BBC-S-East ADC Sum

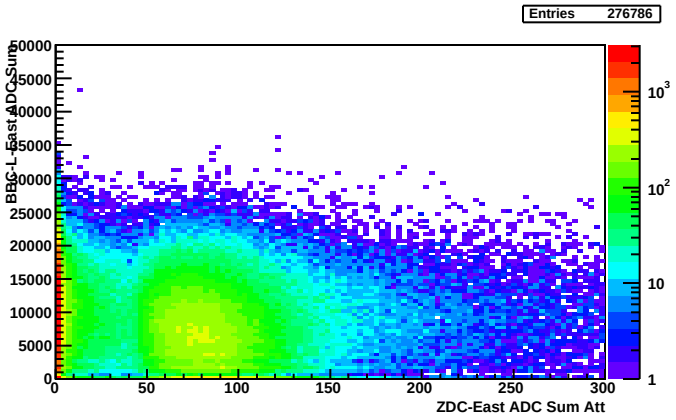

Entries 276786
TOF Mult
BBC-S-West ADC Sum

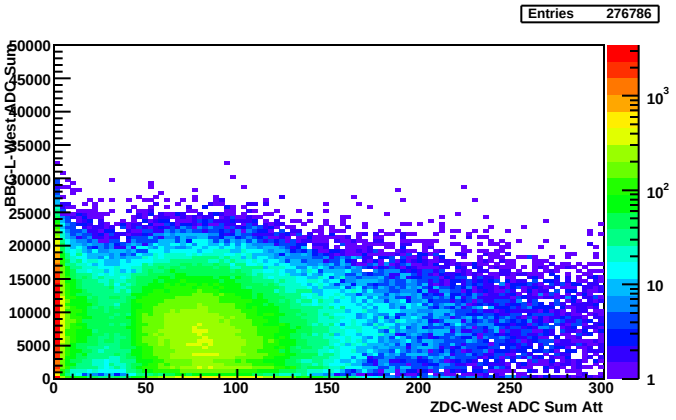

Entries 276786
TOF Mult
ZDC-East ADC Sum Att

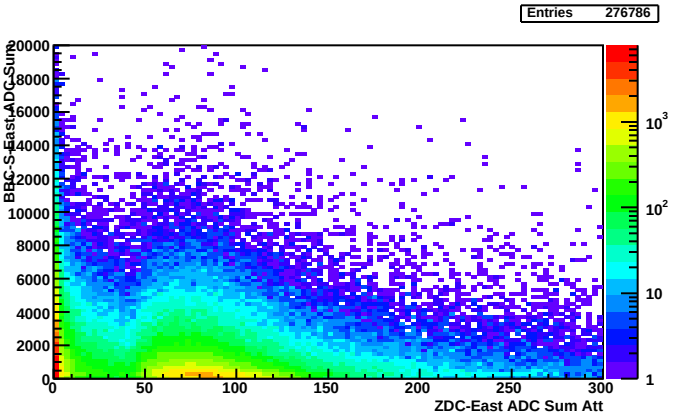

Entries 276786
TOF Mult
ZDC-West ADC Sum Att

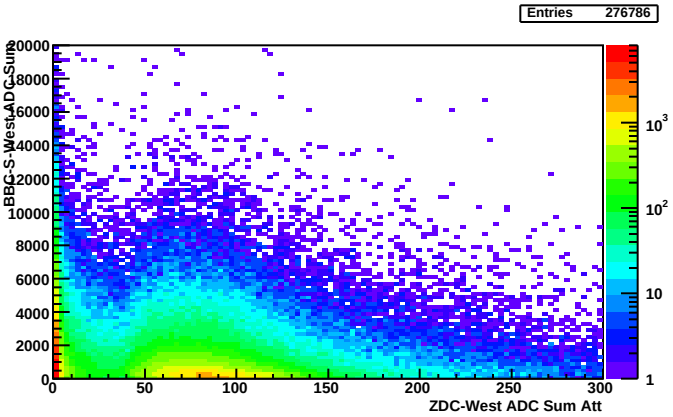

Entries 276786
BBC-L-East ADC Sum
BBC-S-East ADC Sum

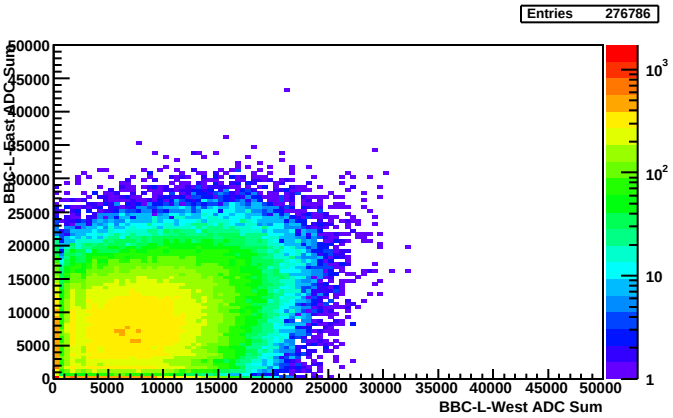

Entries 276786
BBC-L-West ADC Sum
BBC-S-West ADC Sum

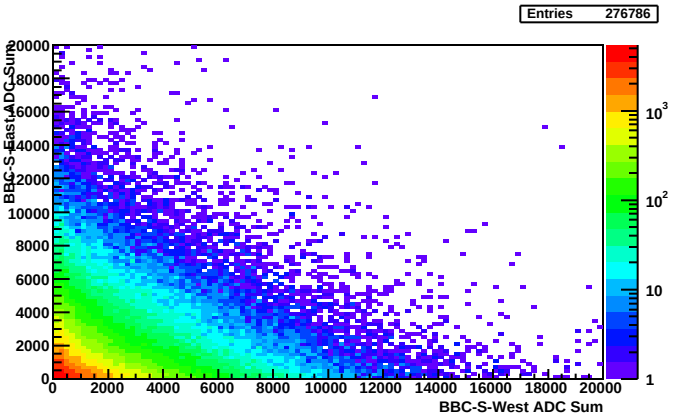

Entries 276786
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

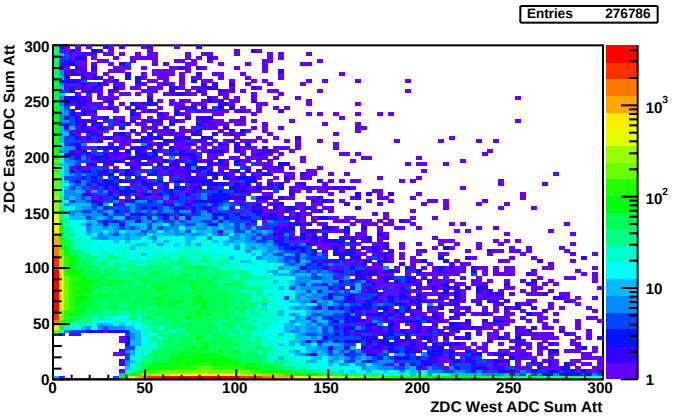

Entries 276786
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

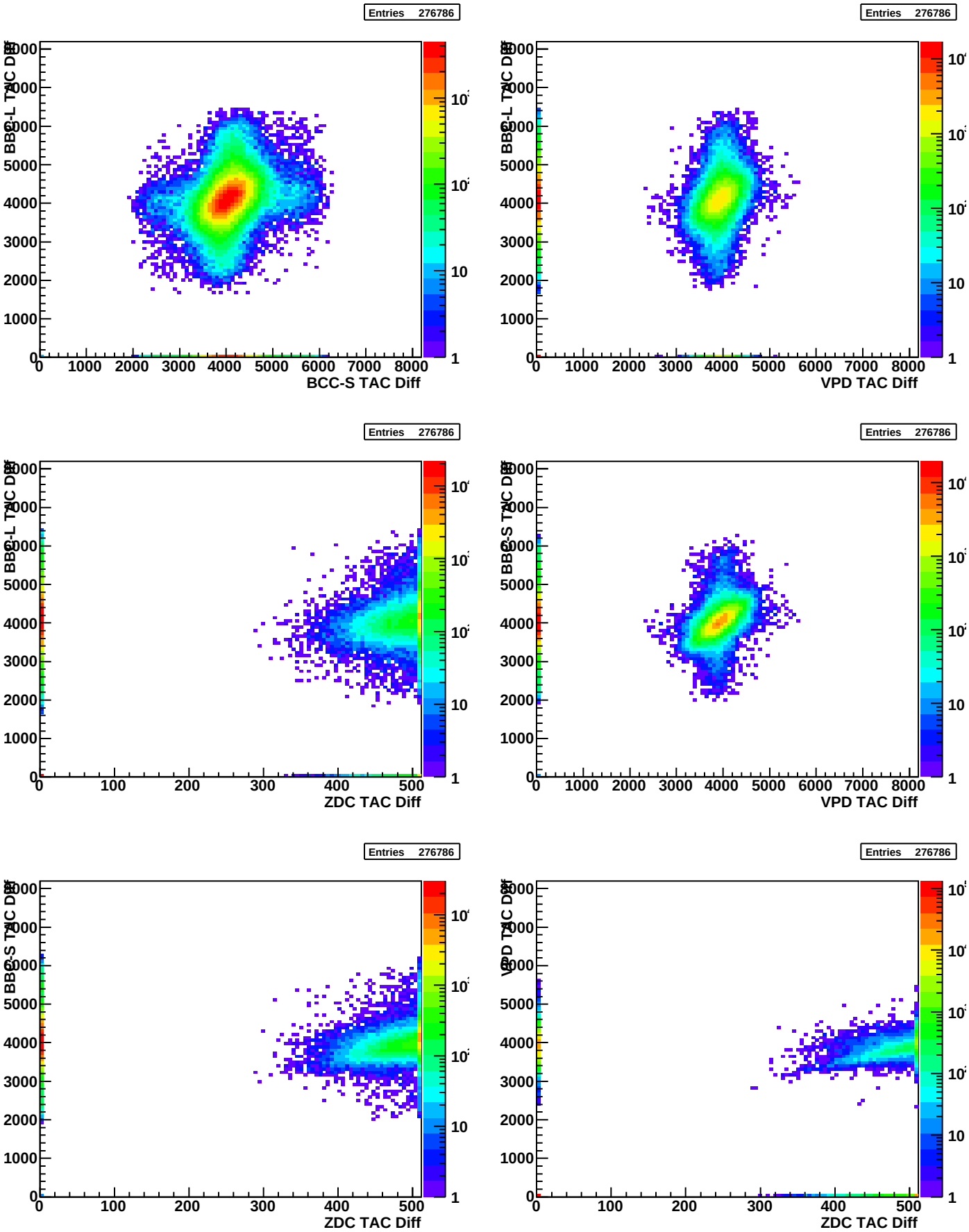

Entries 276786
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

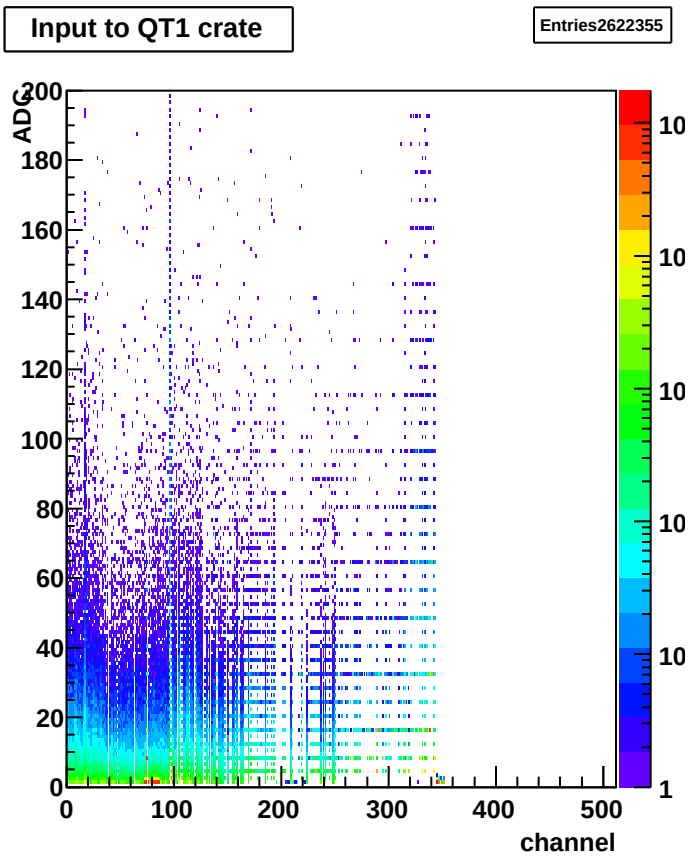

Entries 276786
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

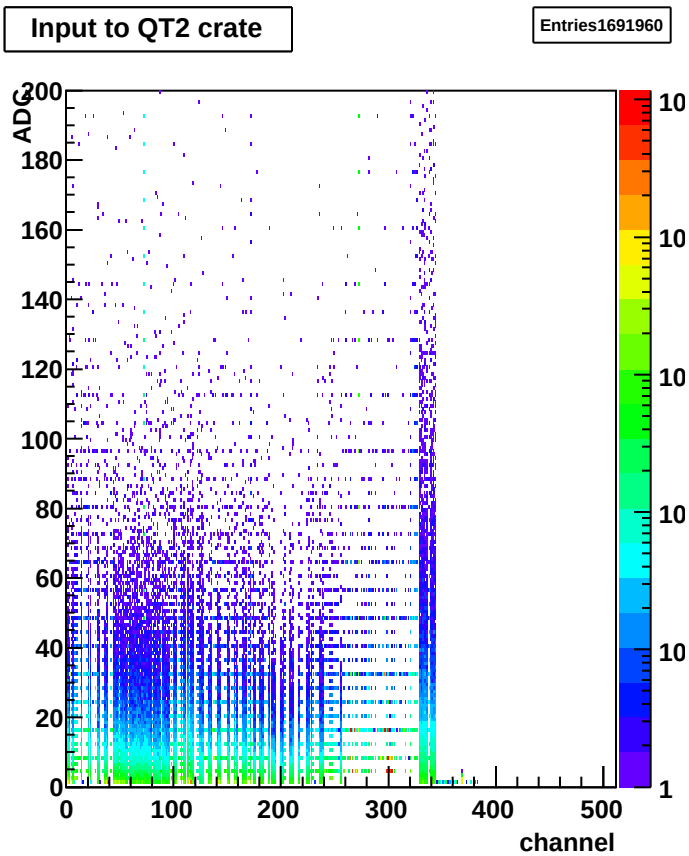

Entries 276786
BBC-L-East ADC Sum
BBC-L-West ADC Sum

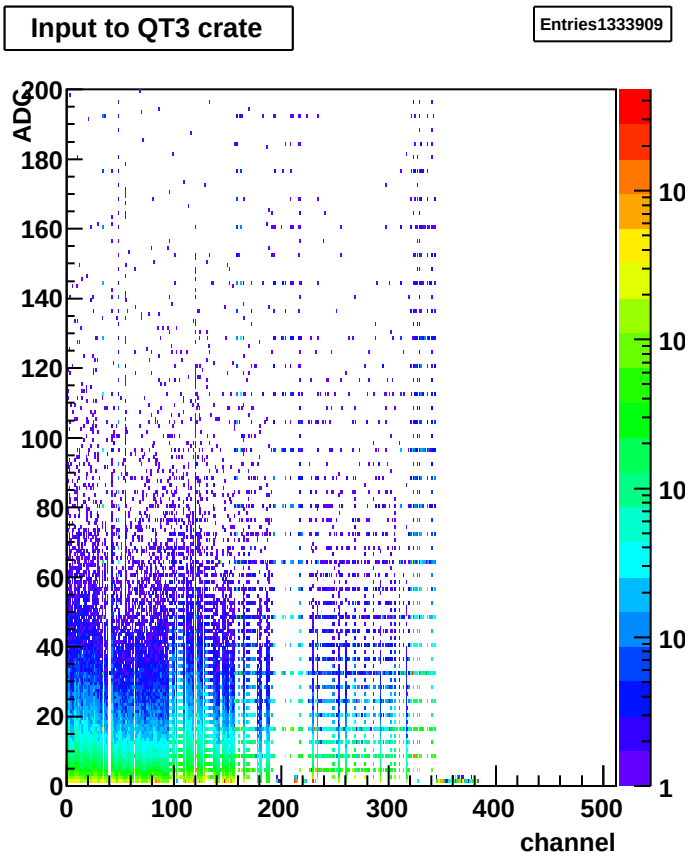

Entries 276786
BBC-S-East ADC Sum
BBC-S-West ADC Sum

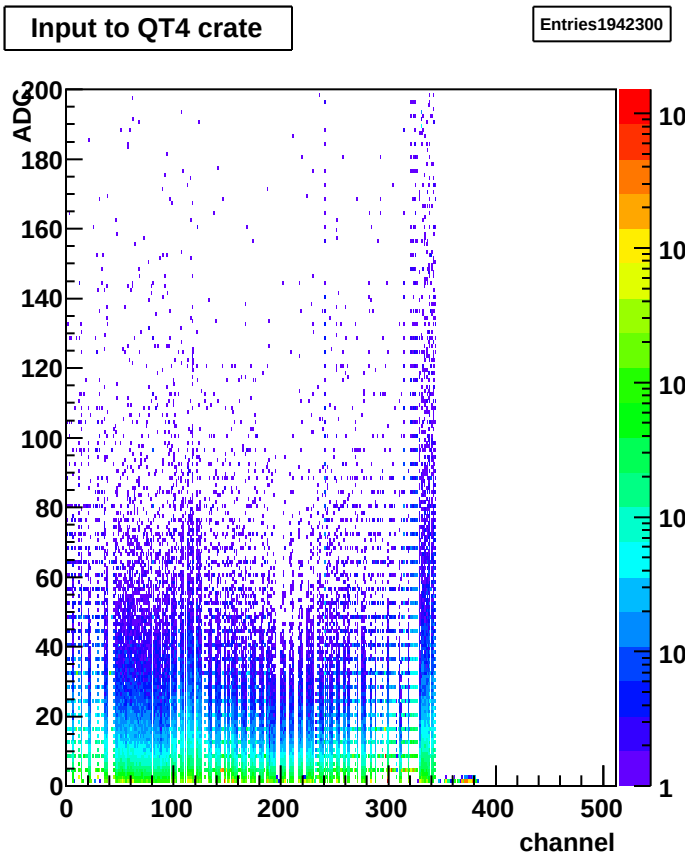

Entries 276786
ZDC East ADC Sum Att
ZDC West ADC Sum Att

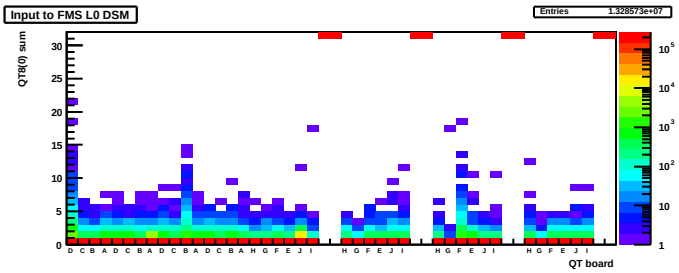

Entries 276786
BBC-L TAC Diff
BCC-S TAC Diff
Entries 276786
BBC-L TAC Diff
VPD TAC Diff
Entries 276786
BBC-L TAC Diff
ZDC TAC Diff
Entries 276786
BBC-S TAC Diff
VPD TAC Diff
Entries 276786
BBC-S TAC Diff
ZDC TAC Diff
Entries 276786
VPD TAC Diff
ZDC TAC Diff

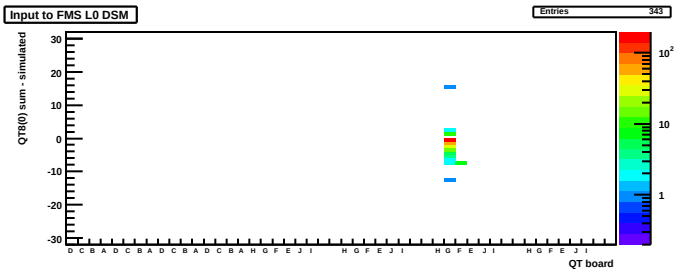

Input to QT1 crate
Entries2622355
ADC
channel

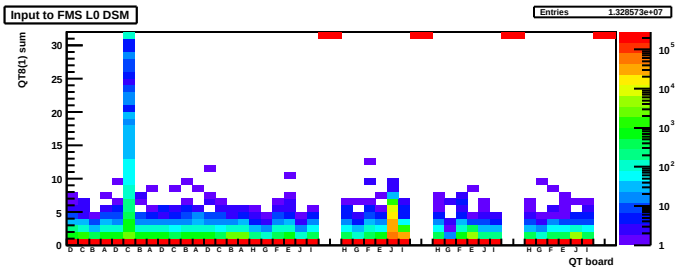

Input to QT2 crate
Entries1691960
ADC
channel

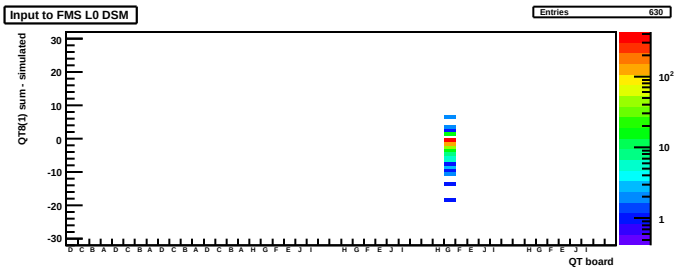

Input to QT3 crate
Entries1333909
ADC
channel

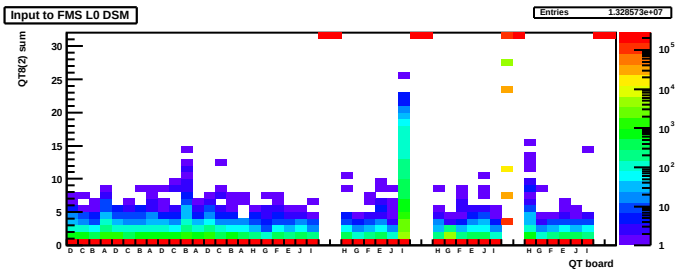

Input to QT4 crate
Entries1942300
ADC
channel

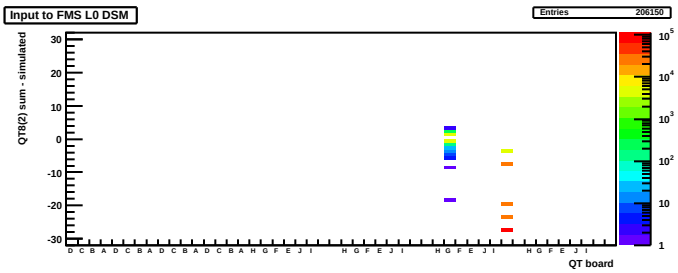

Input to FMS L0 DSM
Entries 1.328573e+07
QT8(0) sum
QT board

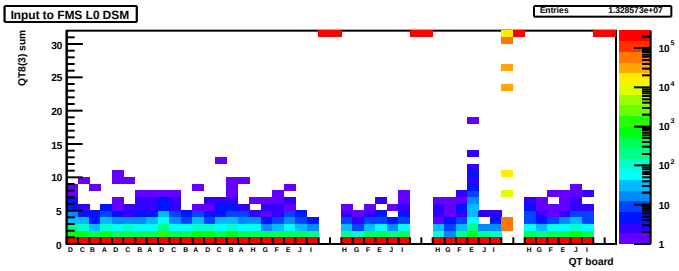

Input to FMS L0 DSM
Entries 343
QT8(0) sum - simulated
QT board

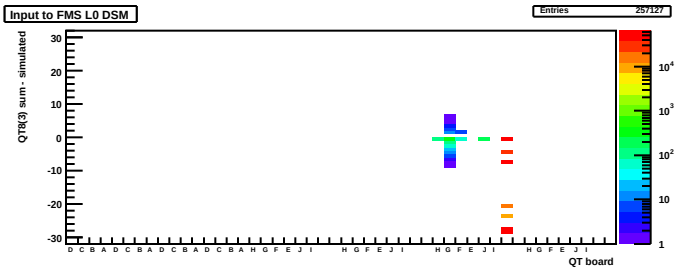

Input to FMS L0 DSM
Entries 1.328573e+07
QT8(1) sum
QT board

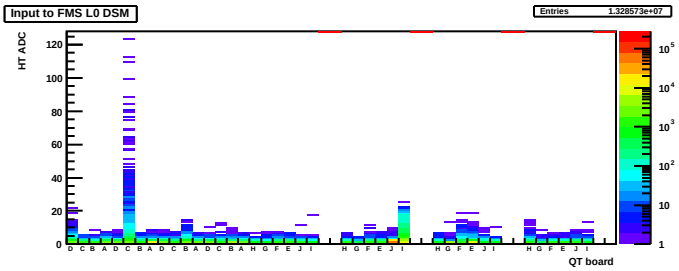

Input to FMS L0 DSM
Entries 630
QT8(1) sum - simulated
QT board

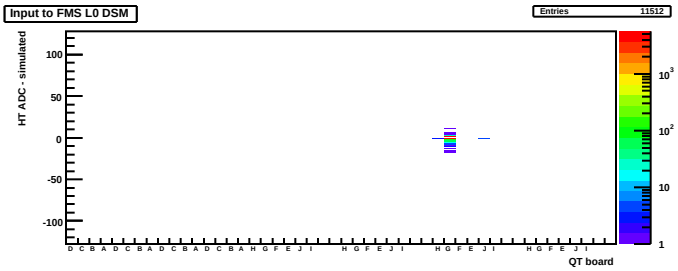

Input to FMS L0 DSM
Entries 1.328573e+07
QT8(2) sum
QT board

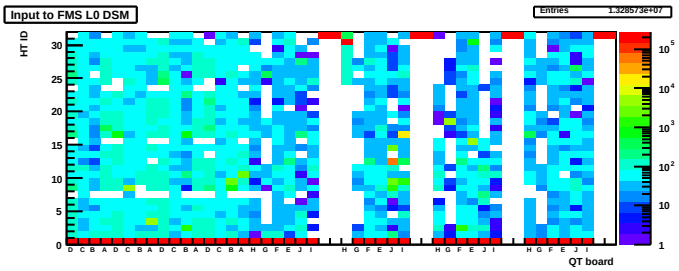

Input to FMS L0 DSM
Entries 206150
QT8(2) sum - simulated
QT board

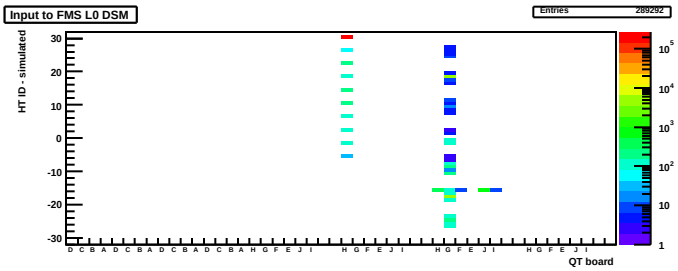

Input to FMS L0 DSM
Entries 1.328573e+07
QT8(3) sum
QT board

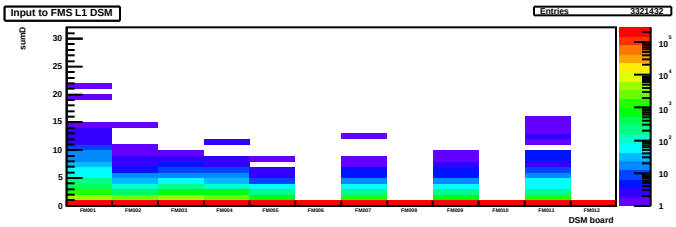

Input to FMS L0 DSM
Entries 257127
QT8(3) sum - simulated
QT board

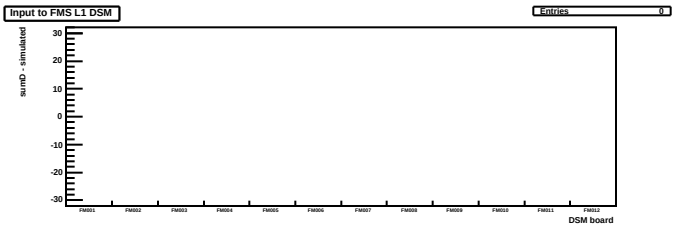

Input to FMS L0 DSM
Entries 1.328573e+07
HT ADC
QT board

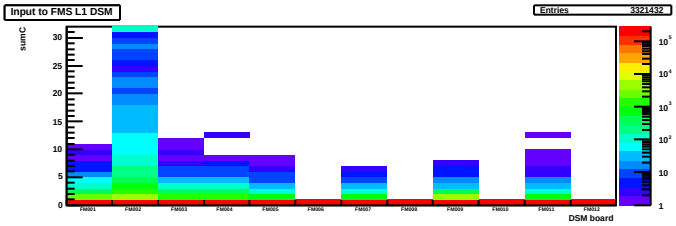

Input to FMS L0 DSM
Entries 11512
HT ADC - simulated
QT board

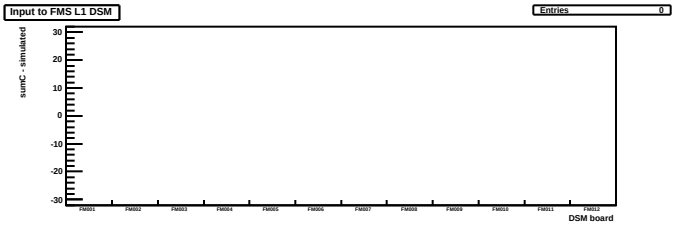

Input to FMS L0 DSM
Entries 1.328573e+07
HT ID
QT board

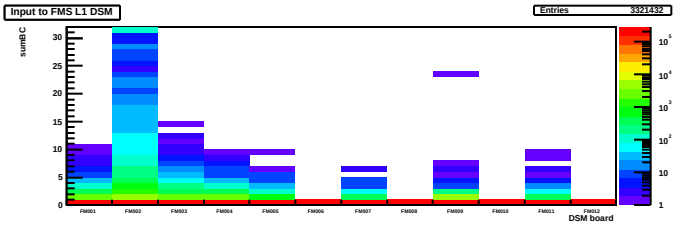

Input to FMS L0 DSM
Entries 289292
HT ID - simulated
QT board

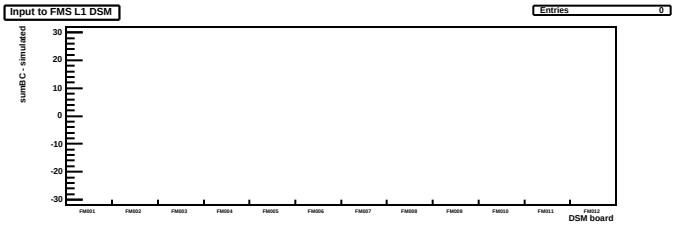

Input to FMS L1 DSM
Entries 3321432
sumD
DSM board

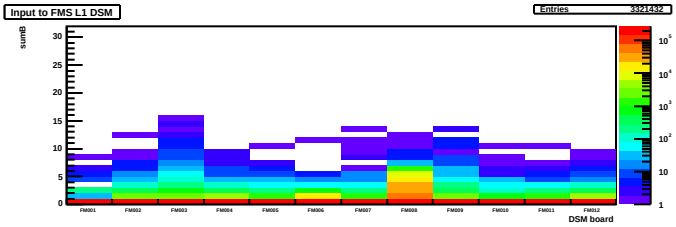

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

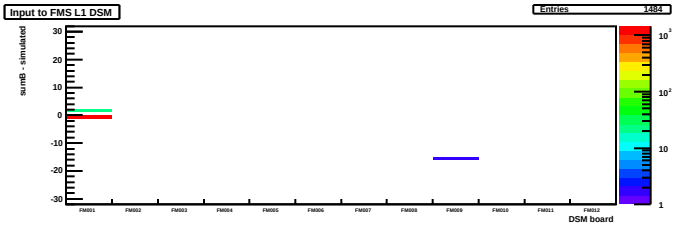

Input to FMS L1 DSM
Entries 3321432
sumC
DSM board

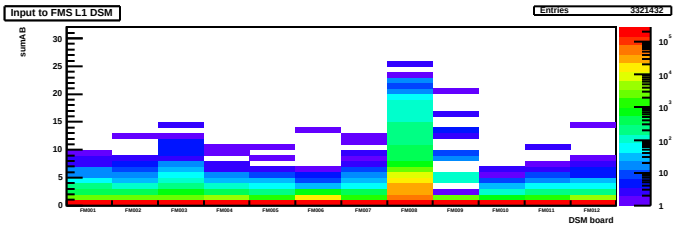

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

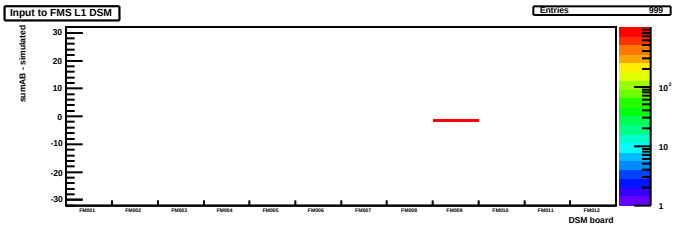

Input to FMS L1 DSM
Entries 3321432
sumBC
DSM board

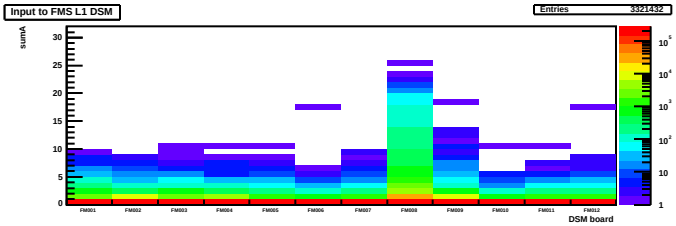

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

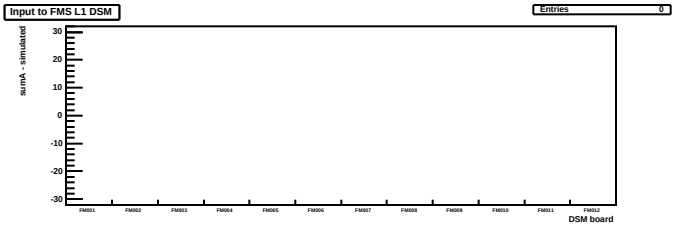

Input to FMS L1 DSM
Entries 3321432
sumB
DSM board

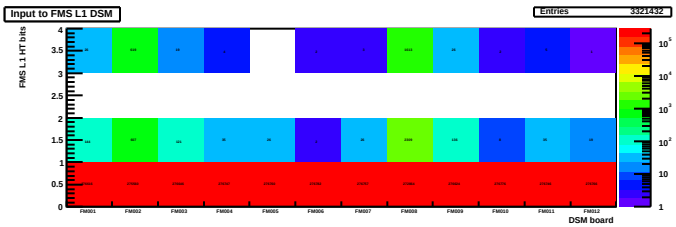

Input to FMS L1 DSM
Entries 1484
sumB - simulated
DSM board

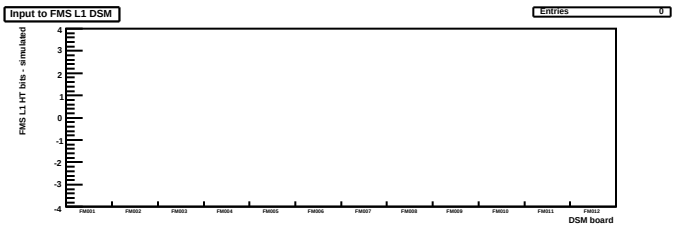

Input to FMS L1 DSM
Entries 3321432
sumAB
DSM board

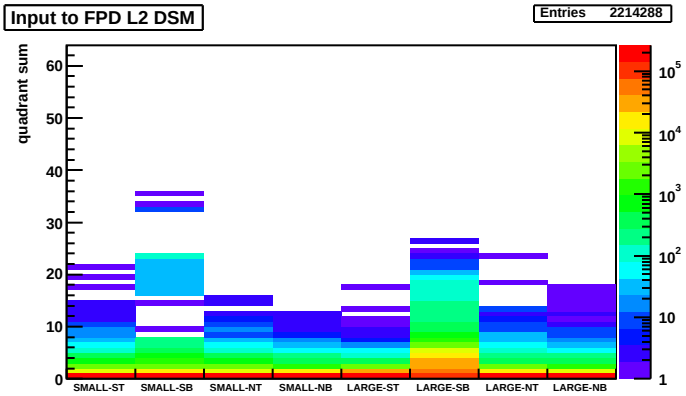

Input to FMS L1 DSM
Entries 999
sumAB - simulated
DSM board

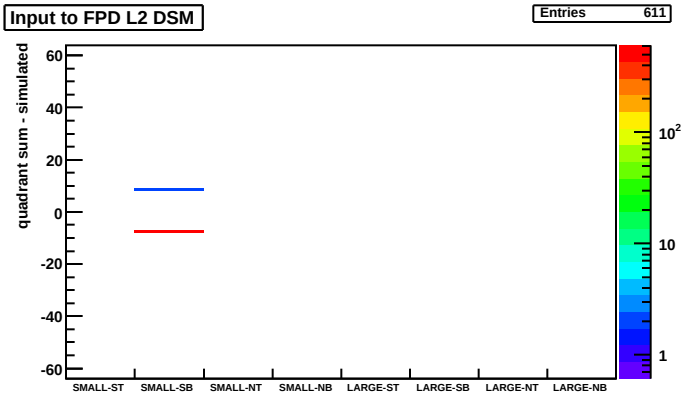

Input to FMS L1 DSM
Entries 3321432
sumA
DSM board

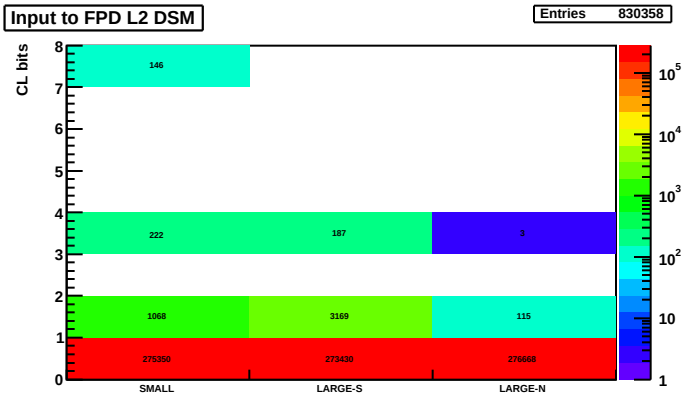

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

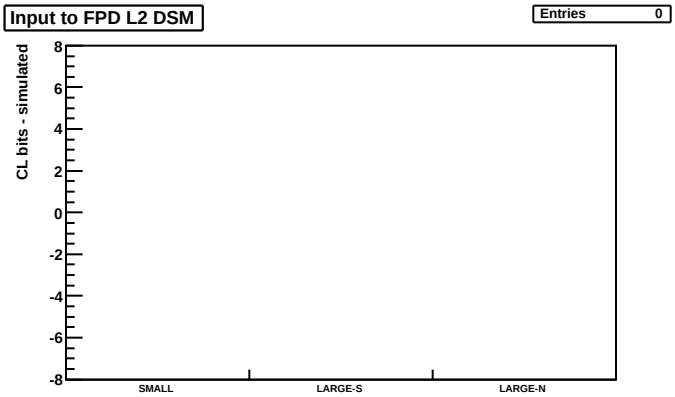

Input to FMS L1 DSM
Entries 3321432
FMS L1 HT bits
DSM board

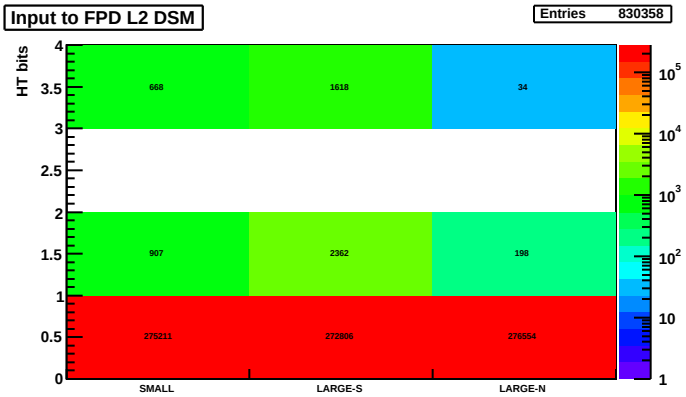

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

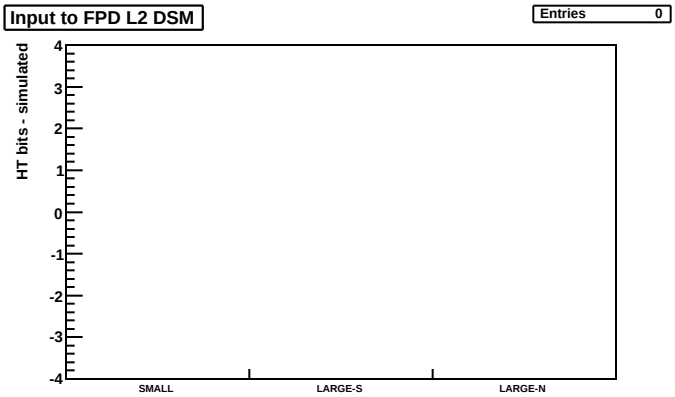

Input to FPD L2 DSM
Entries 2214288
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

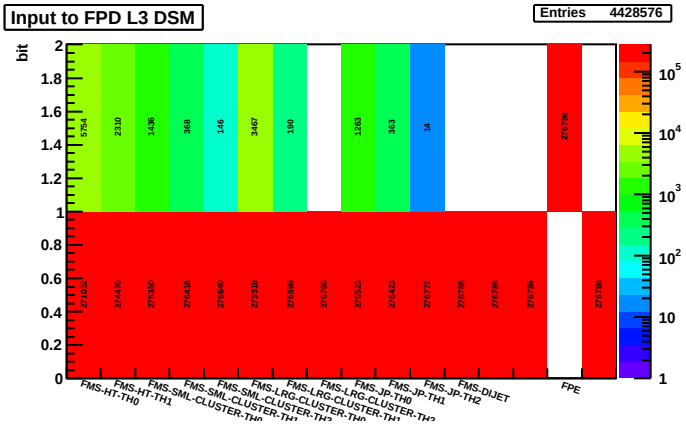

Input to FPD L2 DSM
Entries 611
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

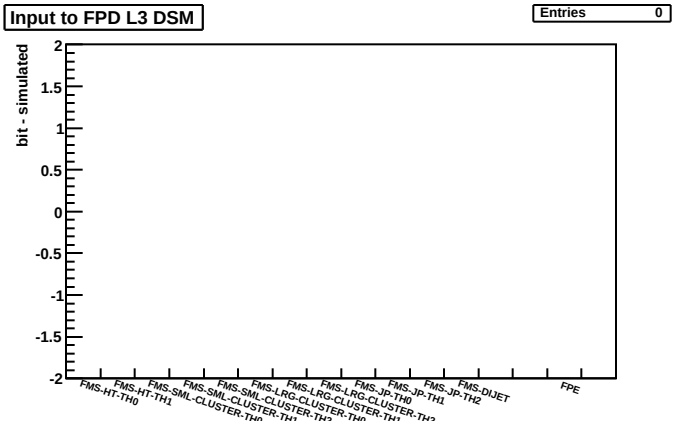

Input to FPD L2 DSM
Entries 830358
CL bits
146
222
187
3
1068
3169
115
275350
273430
276668
SMALL
LARGE-S
LARGE-N

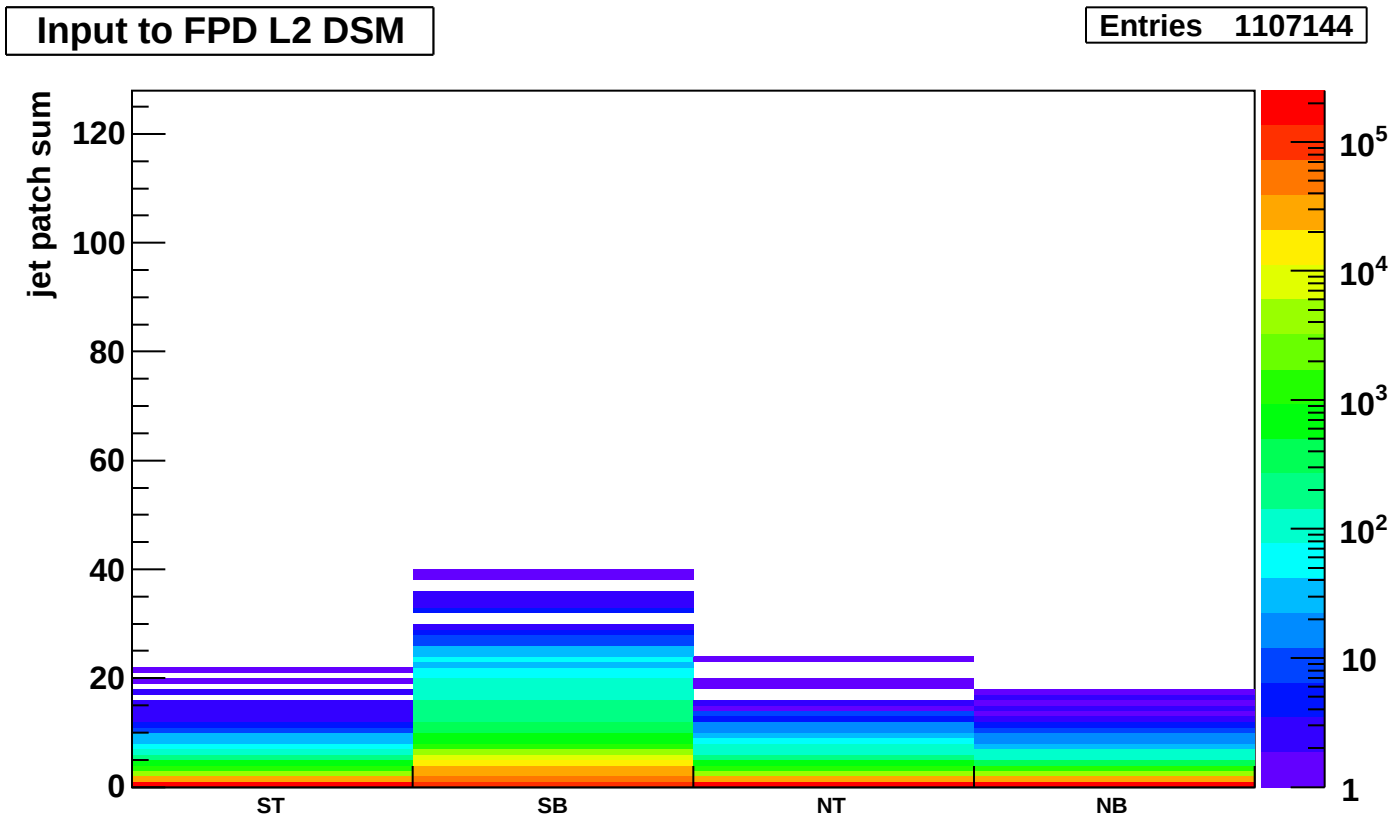

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

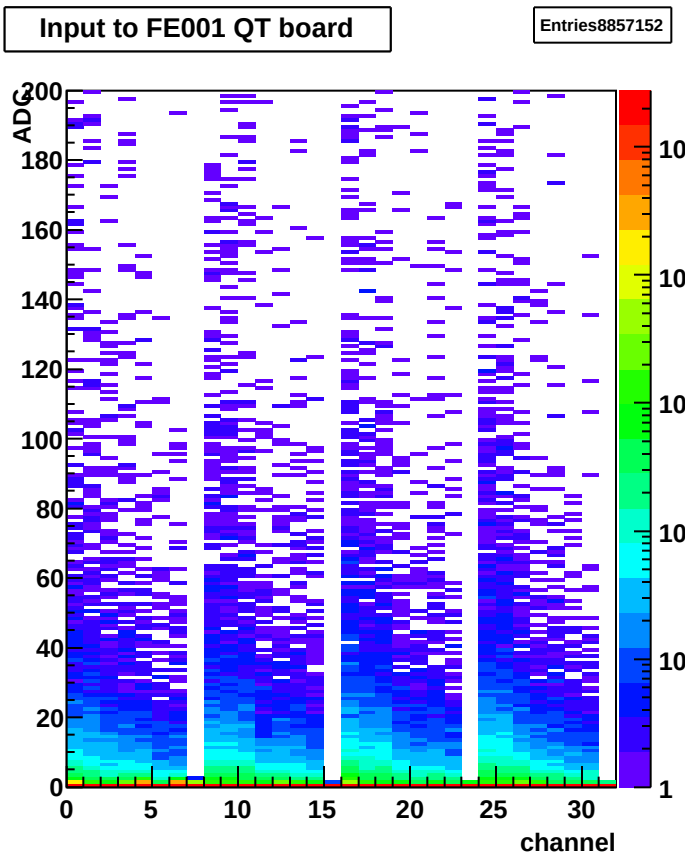

Input to FPD L2 DSM
Entries 830358
HT bits
668
1618
34
907
2362
198
275211
272806
276554
SMALL
LARGE-S
LARGE-N

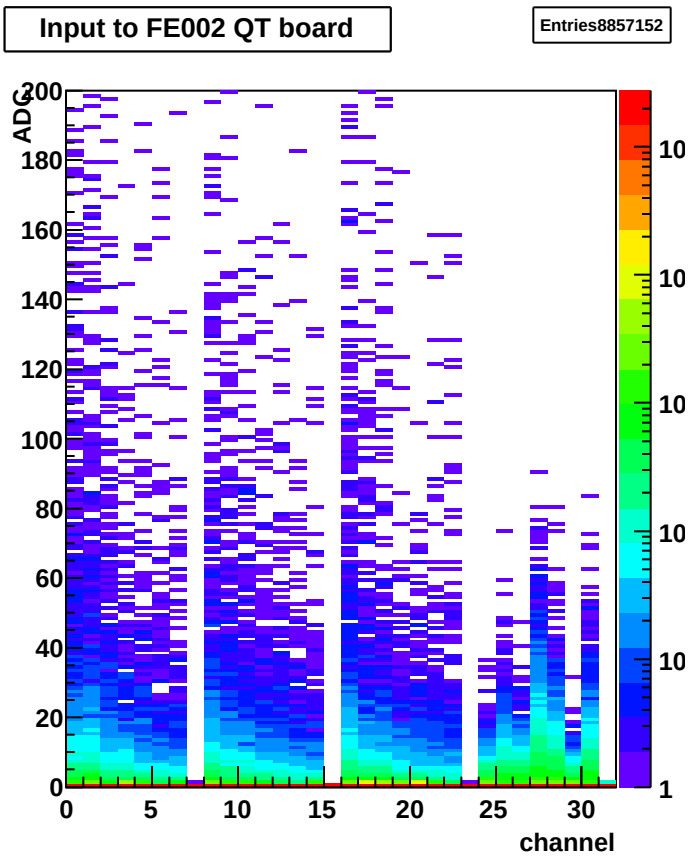

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

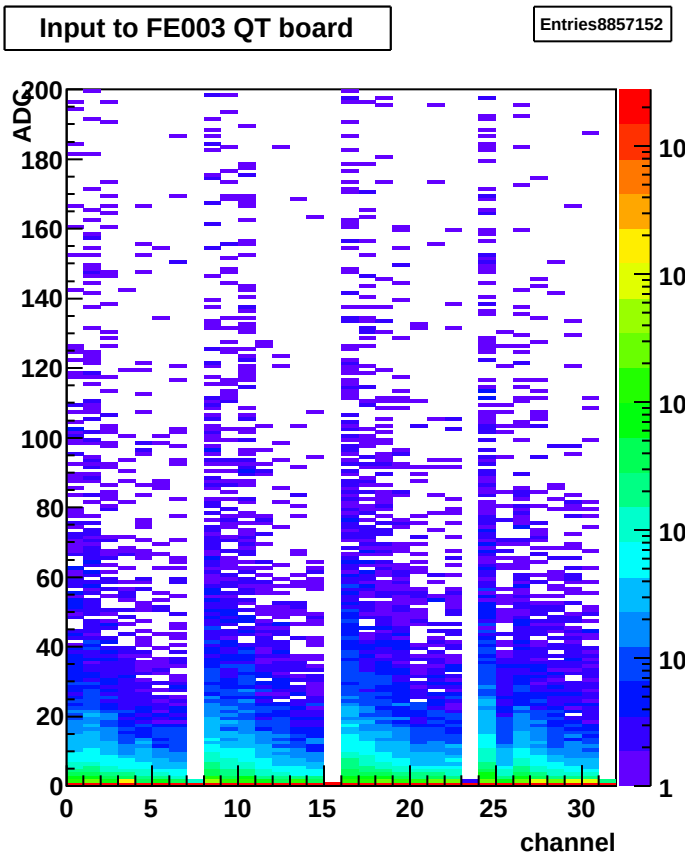

Input to FPD L3 DSM
Entries 4428576
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

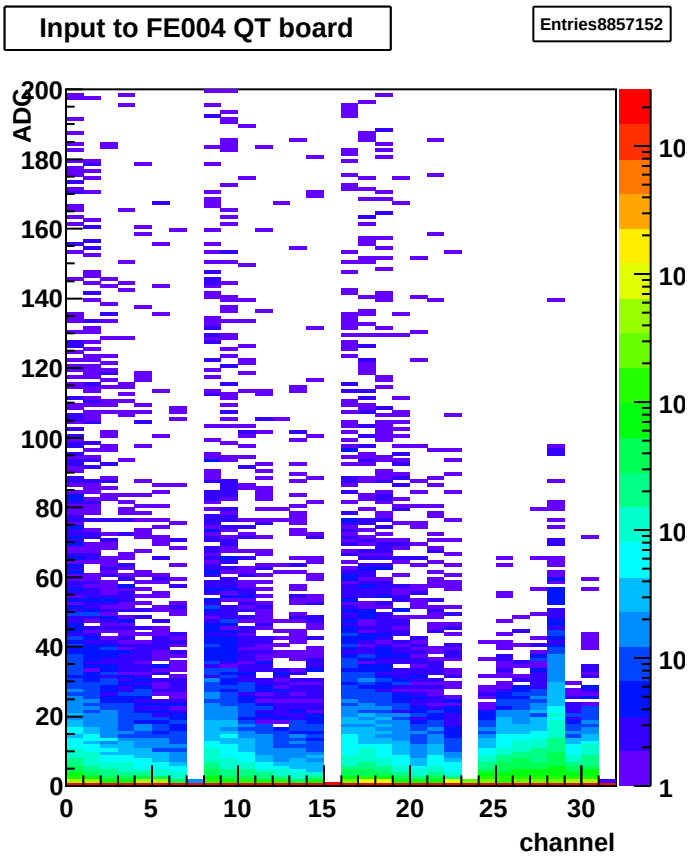

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

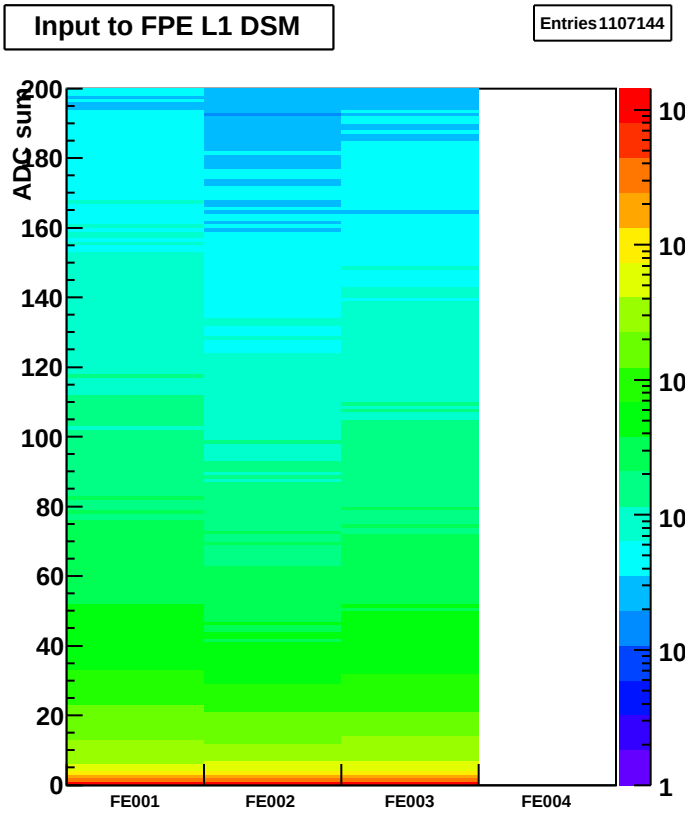

Input to FPD L2 DSM
Entries 1107144
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

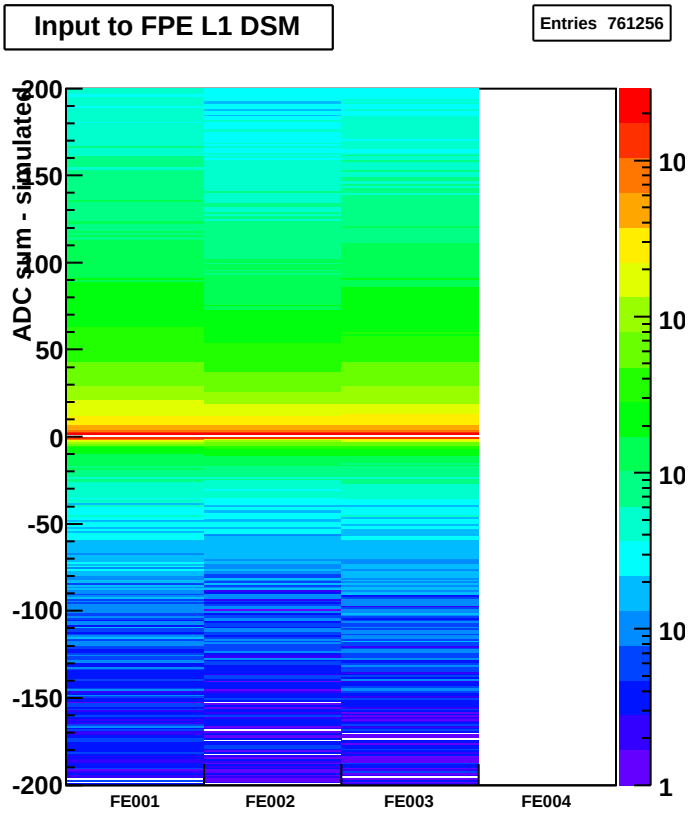

Input to FE001 QT board
Entries8857152
ADC
channel

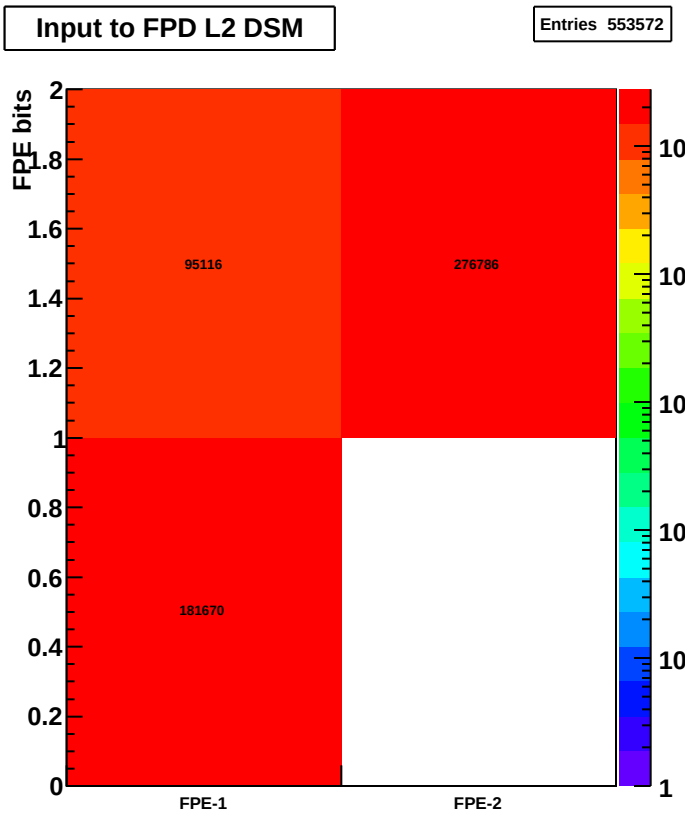

Input to FE002 QT board
Entries8857152
ADC
channel

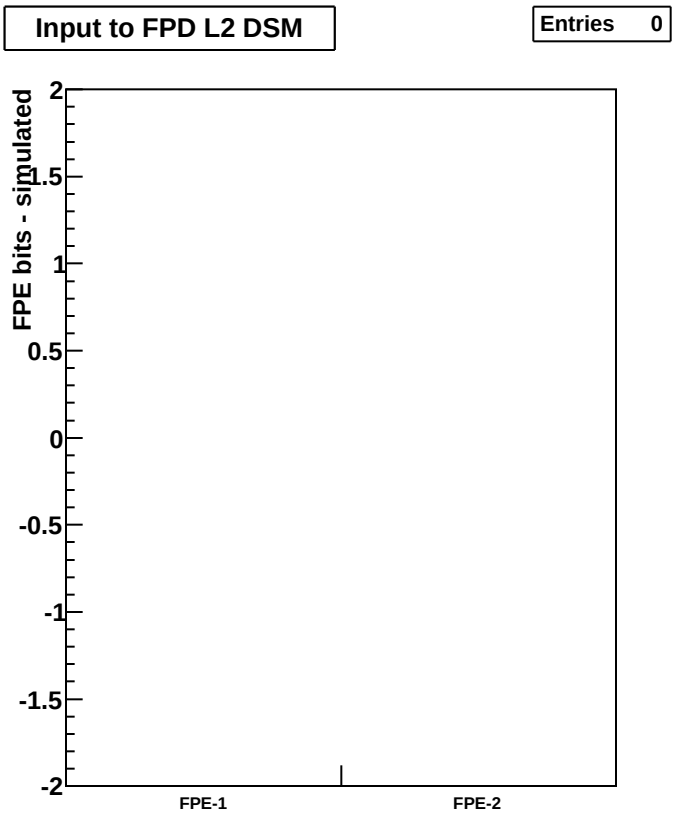

Input to FE003 QT board
Entries8857152
ADC
channel


Input to FE004 QT board
Entries8857152
ADC
channel


Input to FPE L1 DSM
Entries 1107144
ADC sum
FE001
FE002
FE003
FE004


Input to FPE L1 DSM
Entries 761256
ADC sum - simulated
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries 553572
FPE bits
95116
276786
181670
FPE-1
FPE-2


Input to FPD L2 DSM
Entries 0
FPE bits - simulated
FPE-1
FPE-2