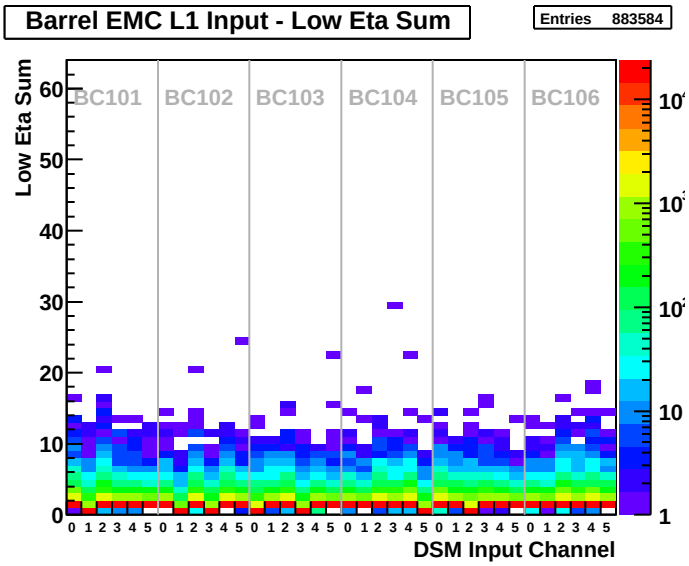
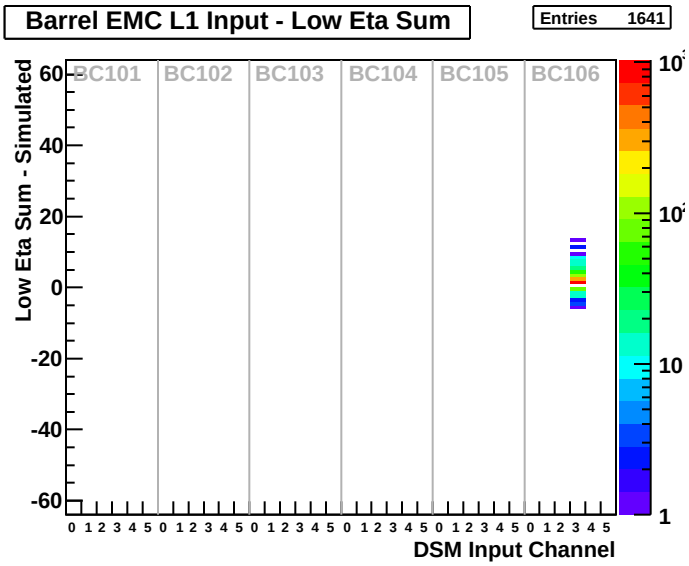
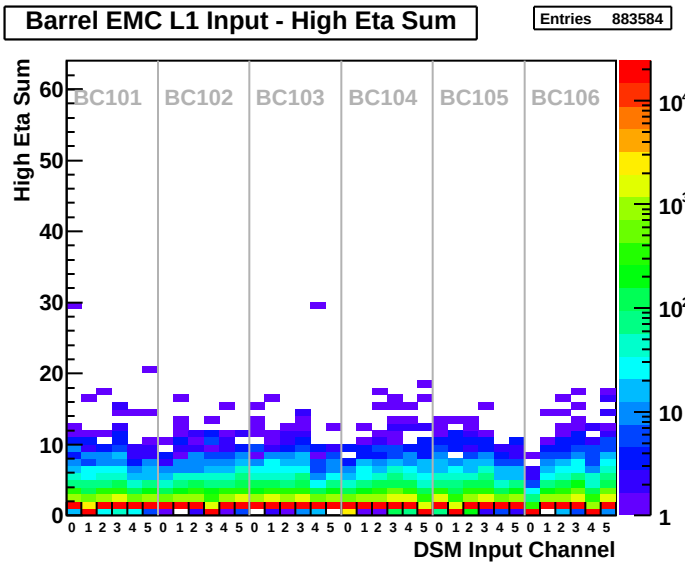
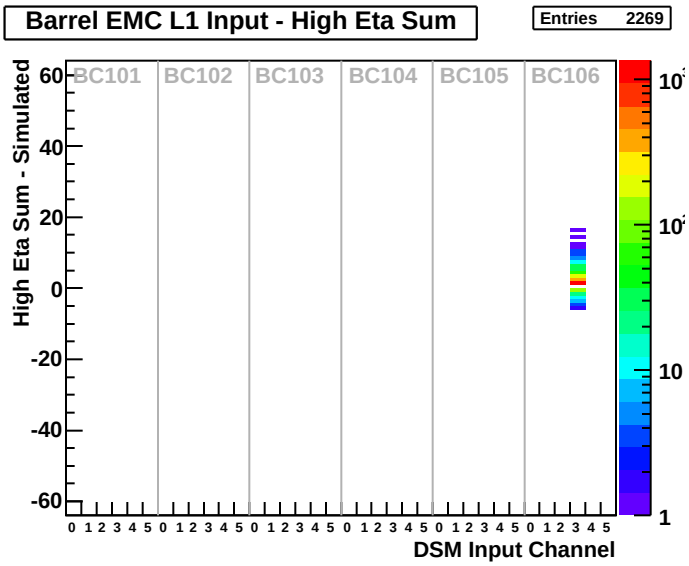
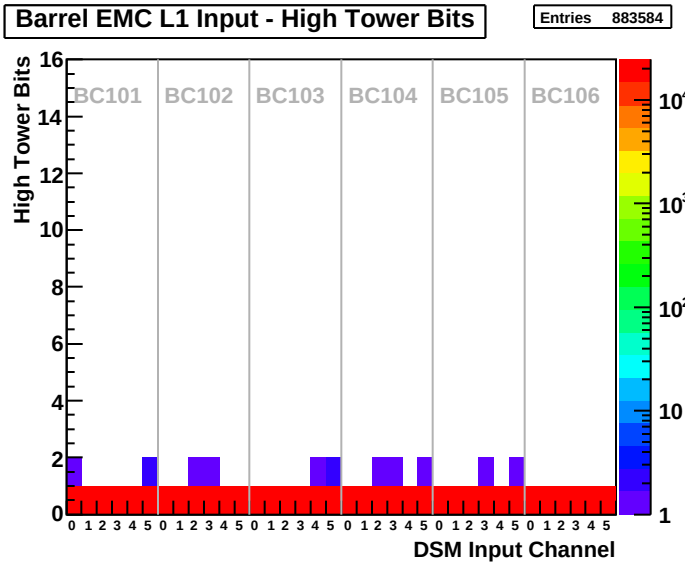
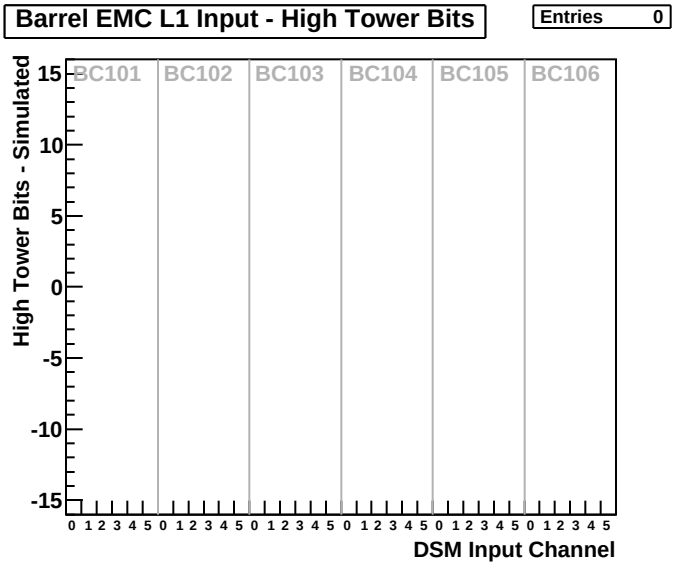

Barrel EMC L1 Input - Low Eta Sum
Entries 883584
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

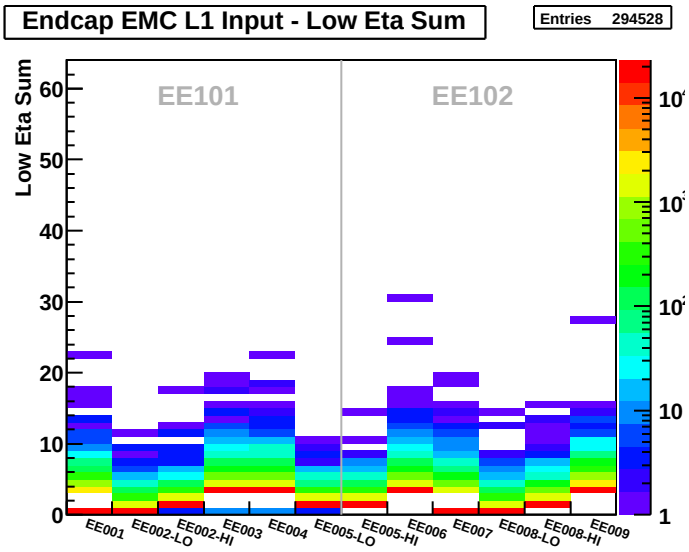

Barrel EMC L1 Input - Low Eta Sum
Entries 1641
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

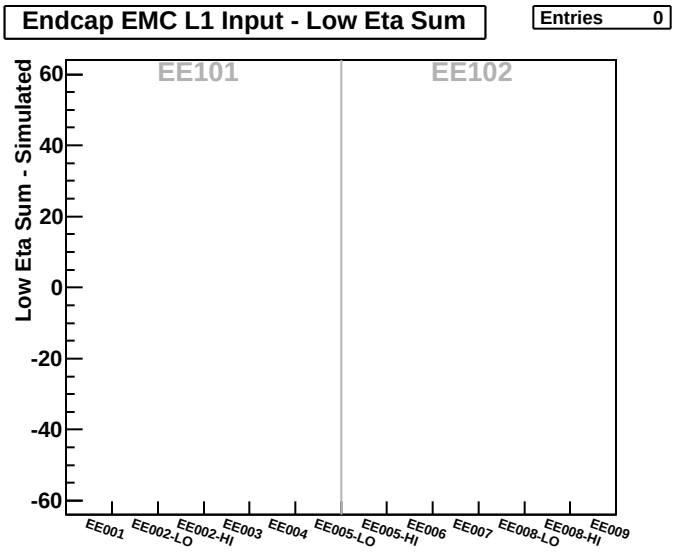

Barrel EMC L1 Input - High Eta Sum
Entries 883584
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

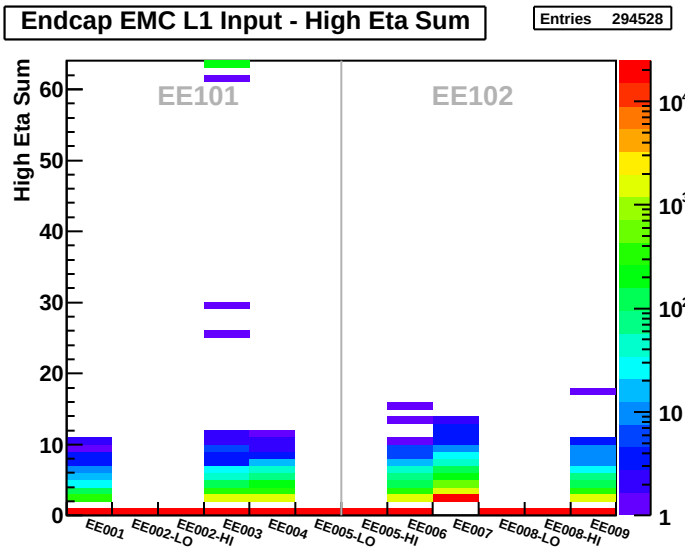

Barrel EMC L1 Input - High Eta Sum
Entries 2269
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

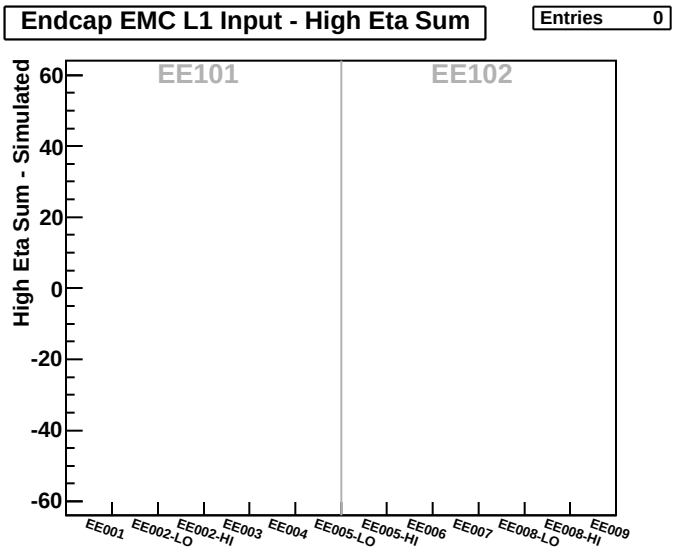

Barrel EMC L1 Input - High Tower Bits
Entries 883584
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

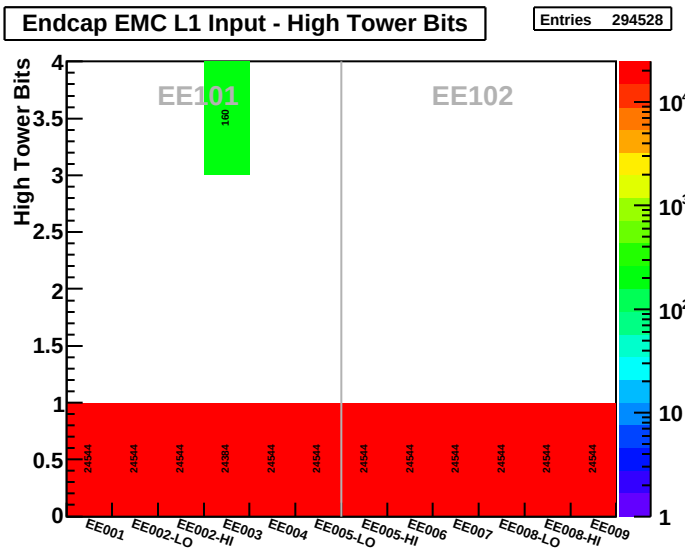

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

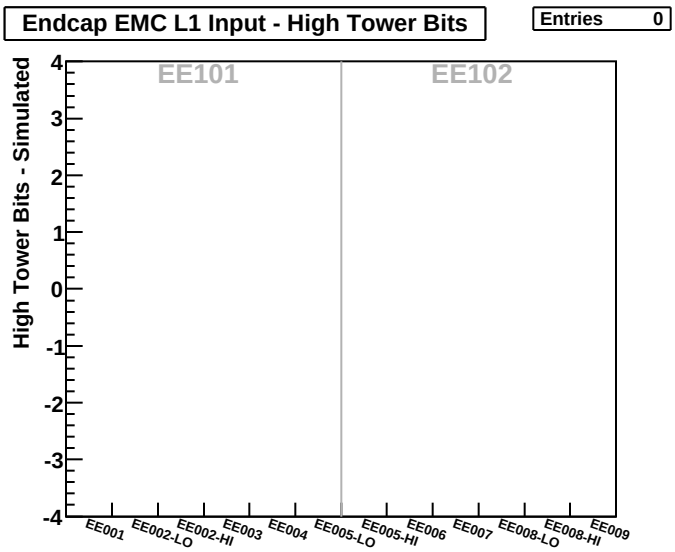

Endcap EMC L1 Input - Low Eta Sum
Entries 294528
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

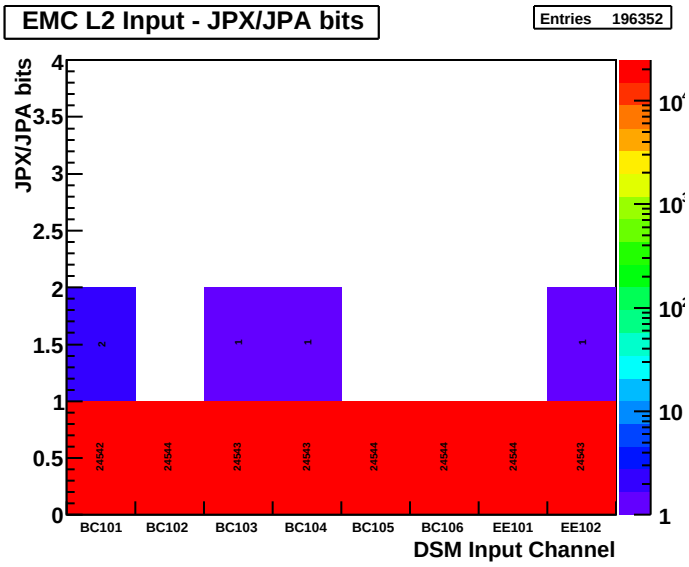

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

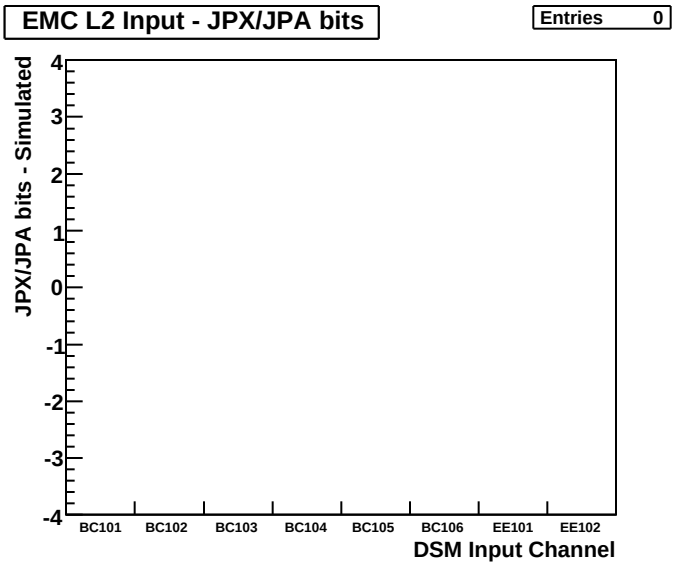

Endcap EMC L1 Input - High Eta Sum
Entries 294528
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

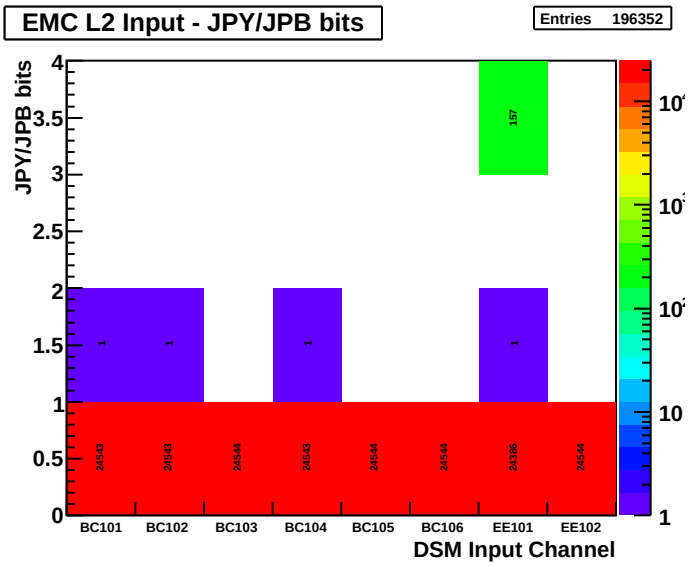

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

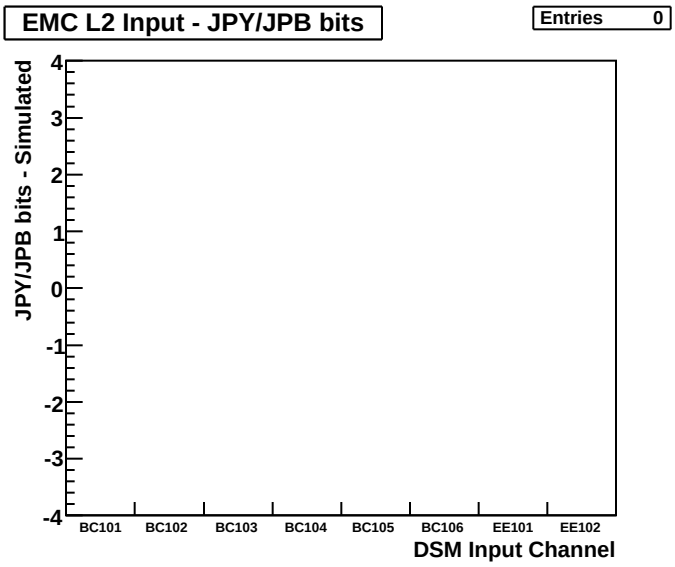

Endcap EMC L1 Input - High Tower Bits
Entries 294528
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

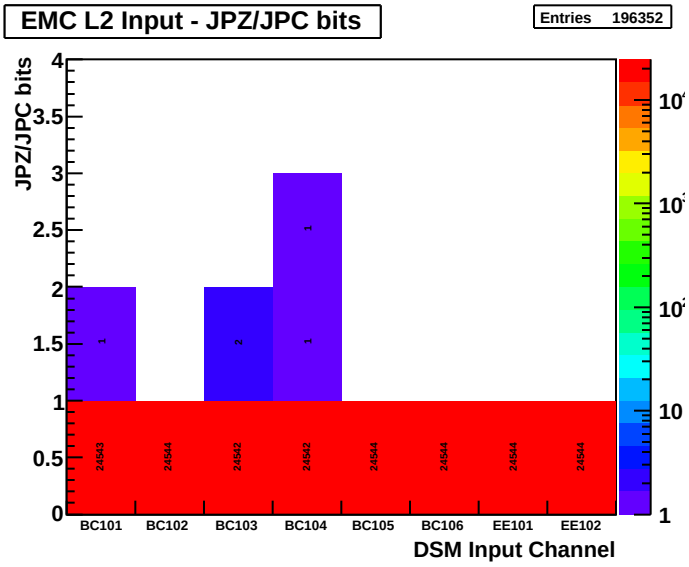

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

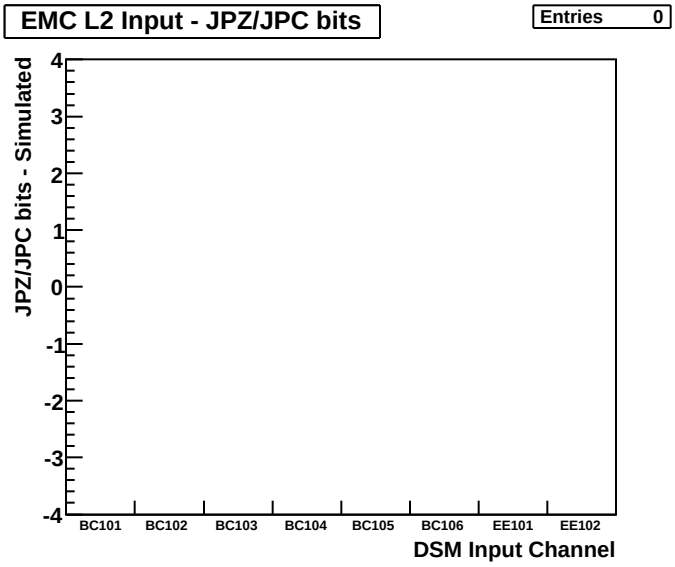

EMC L2 Input - JPX/JPA bits
Entries 196352
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

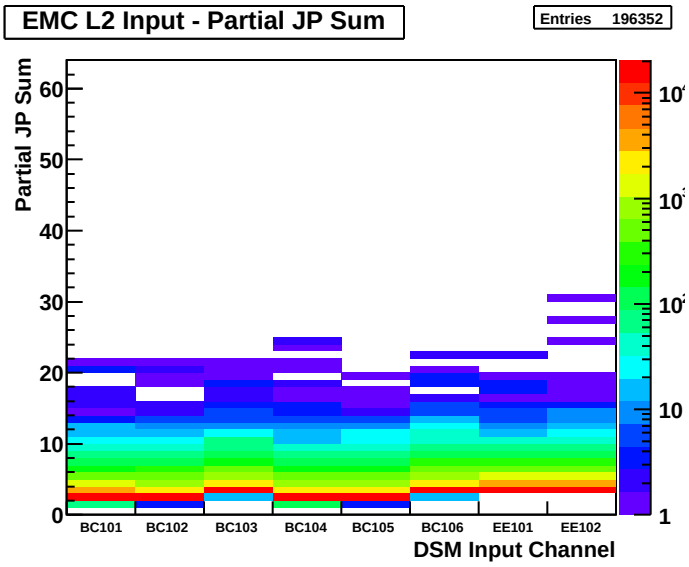

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

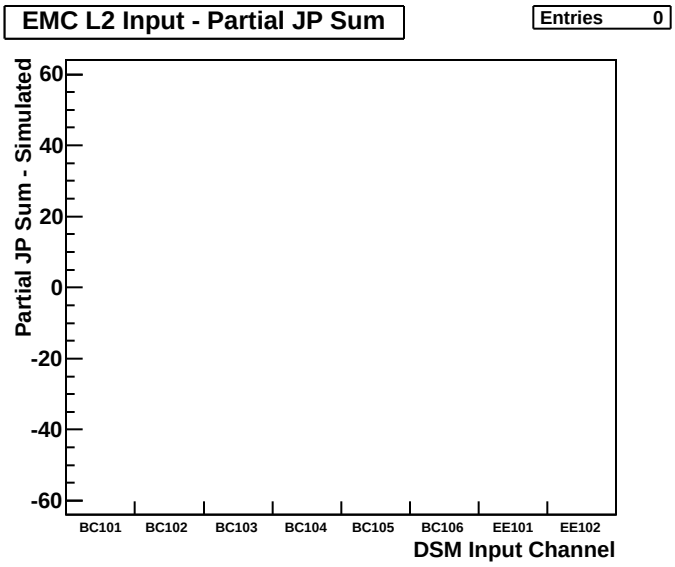

EMC L2 Input - JPY/JPB bits
Entries 196352
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

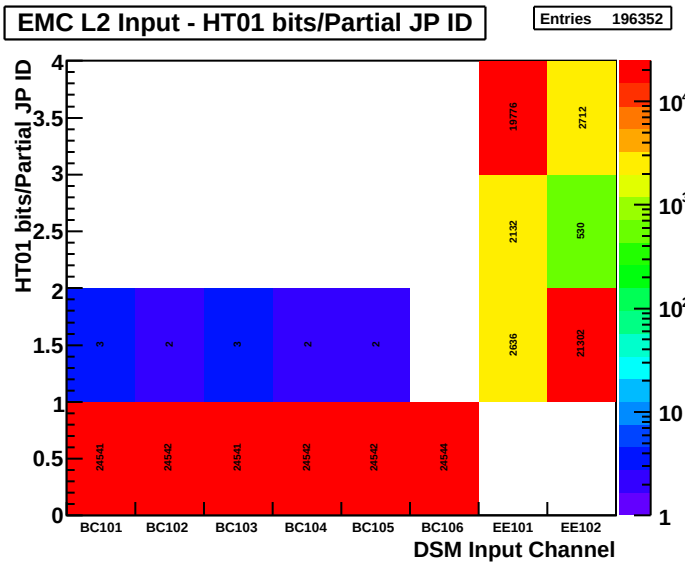

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

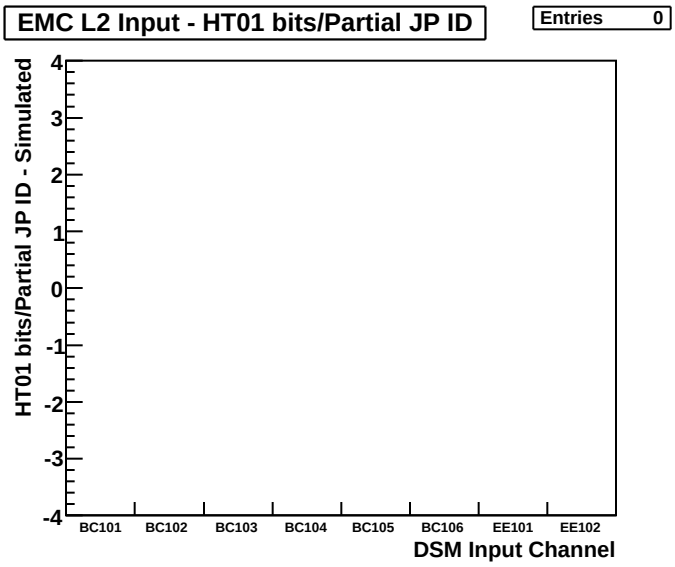

EMC L2 Input - JPZ/JPC bits
Entries 196352
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

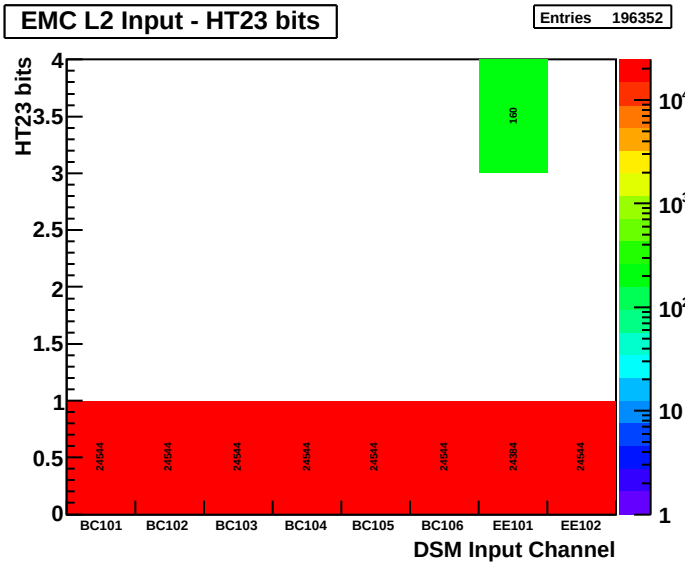

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

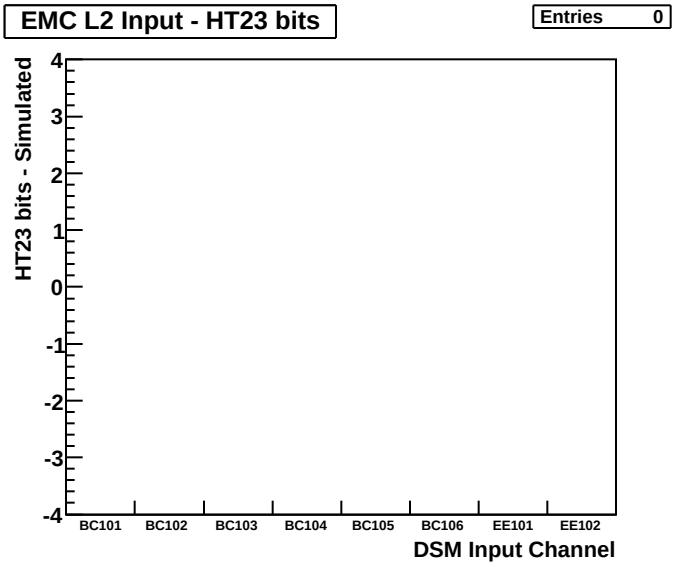

EMC L2 Input - Partial JP Sum
Entries 196352
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

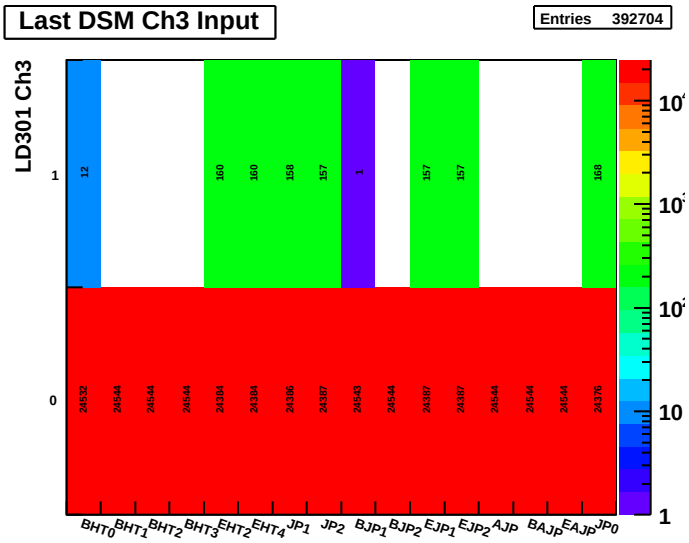

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

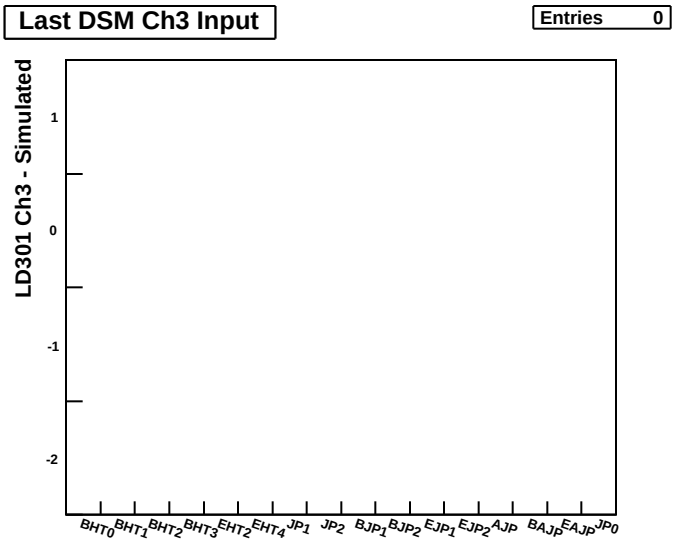

EMC L2 Input - HT01 bits/Partial JP ID
Entries 196352
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

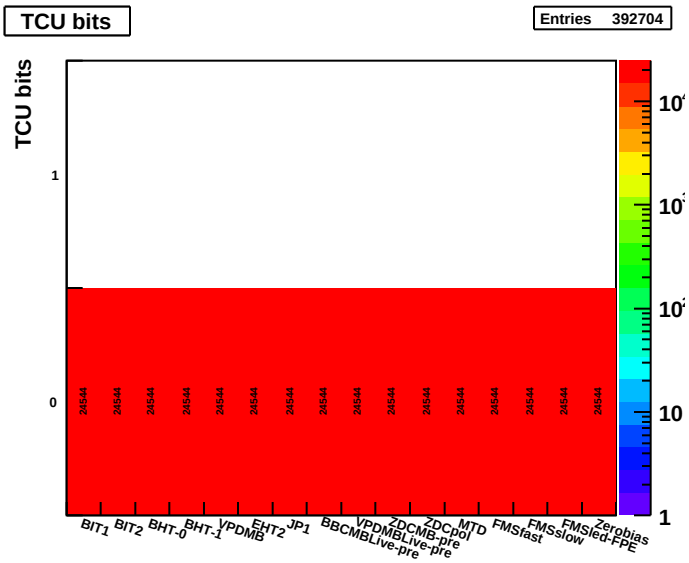

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

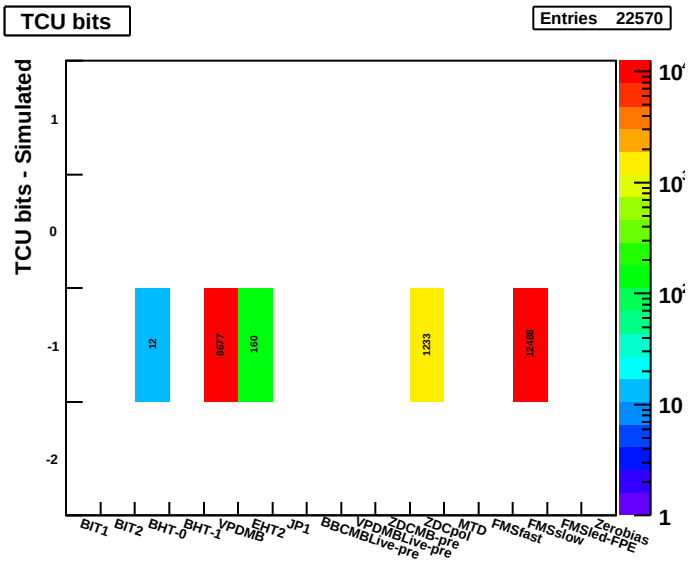

EMC L2 Input - HT23 bits
Entries 196352
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

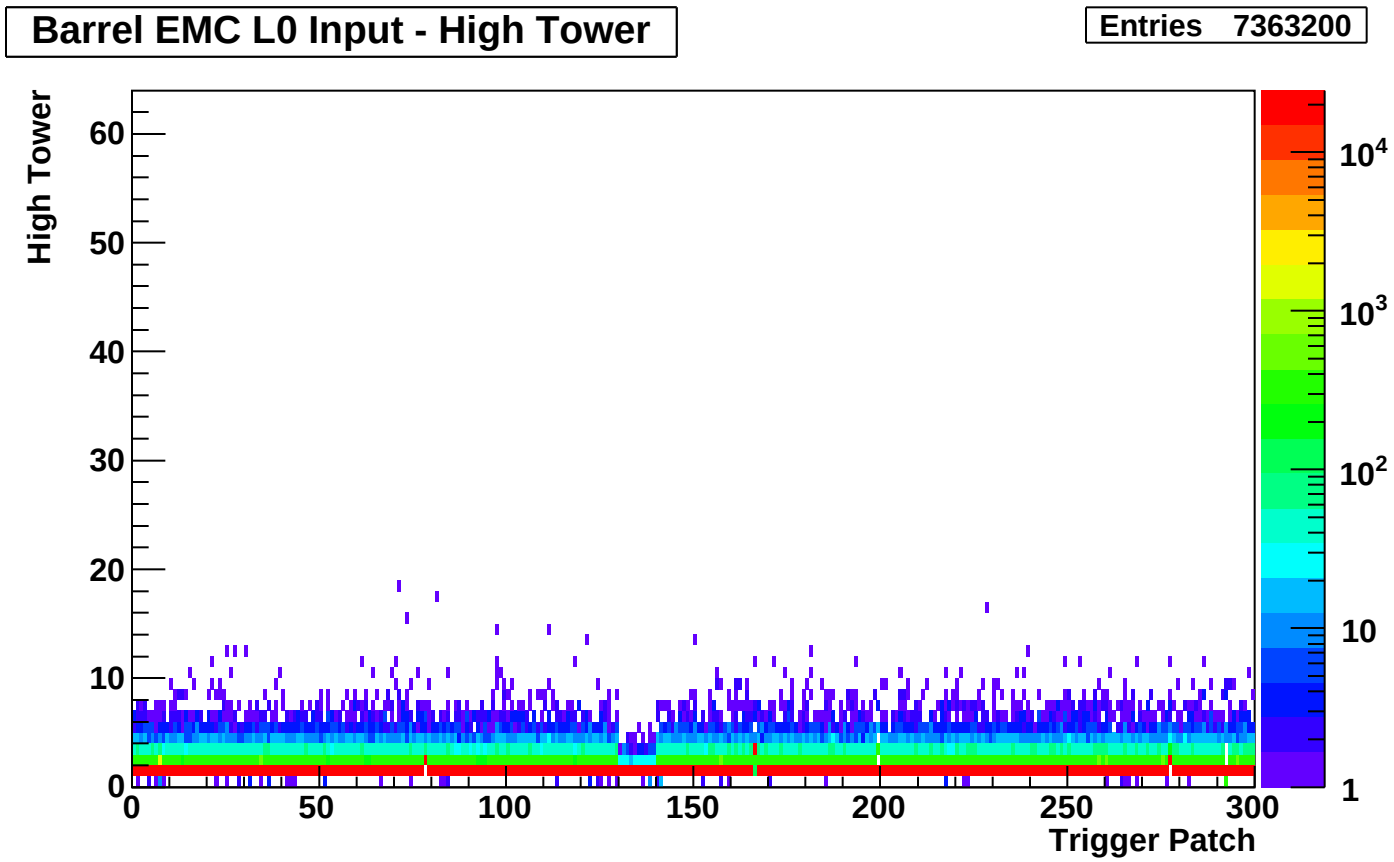

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

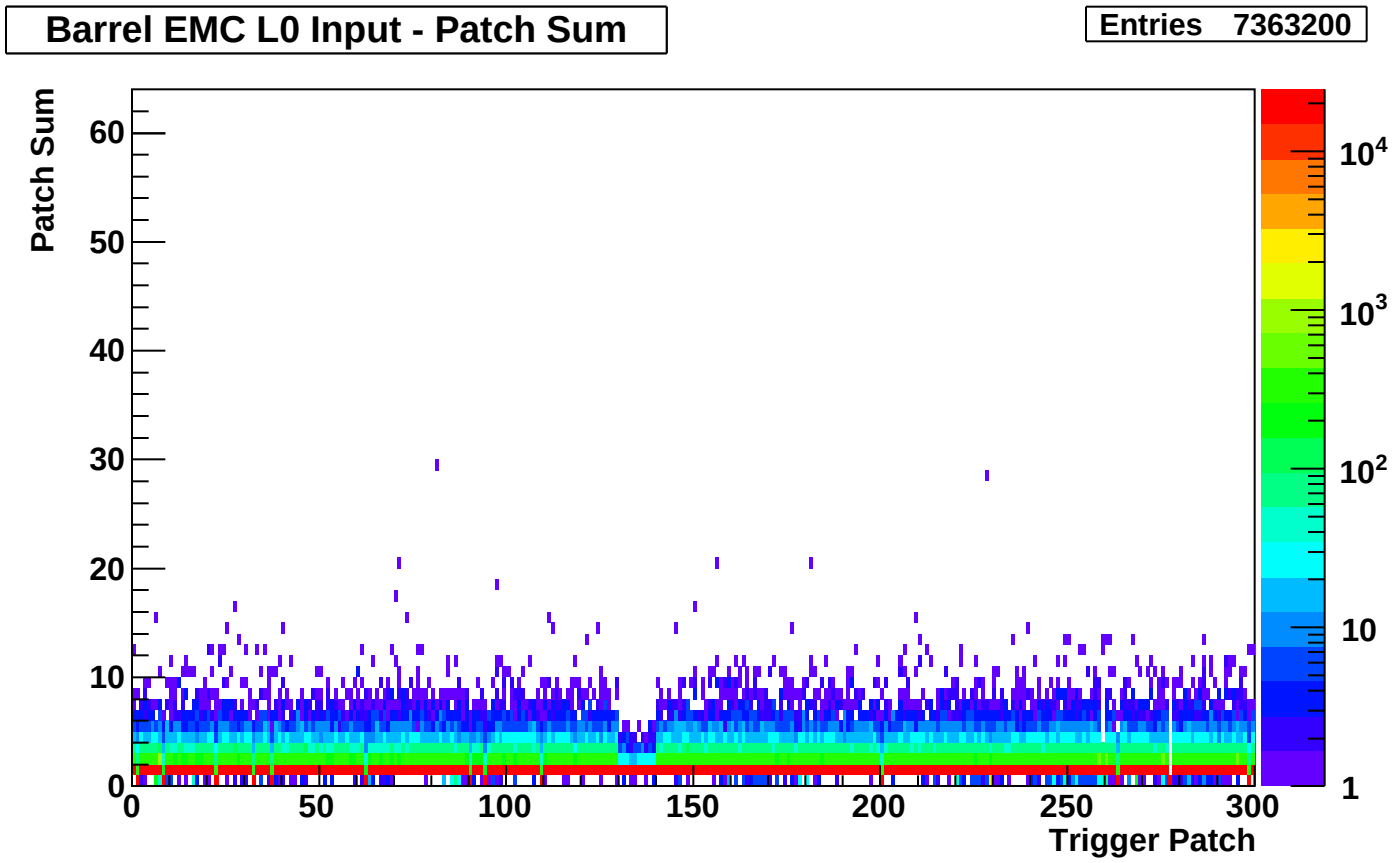

Last DSM Ch3 Input
Entries 392704
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

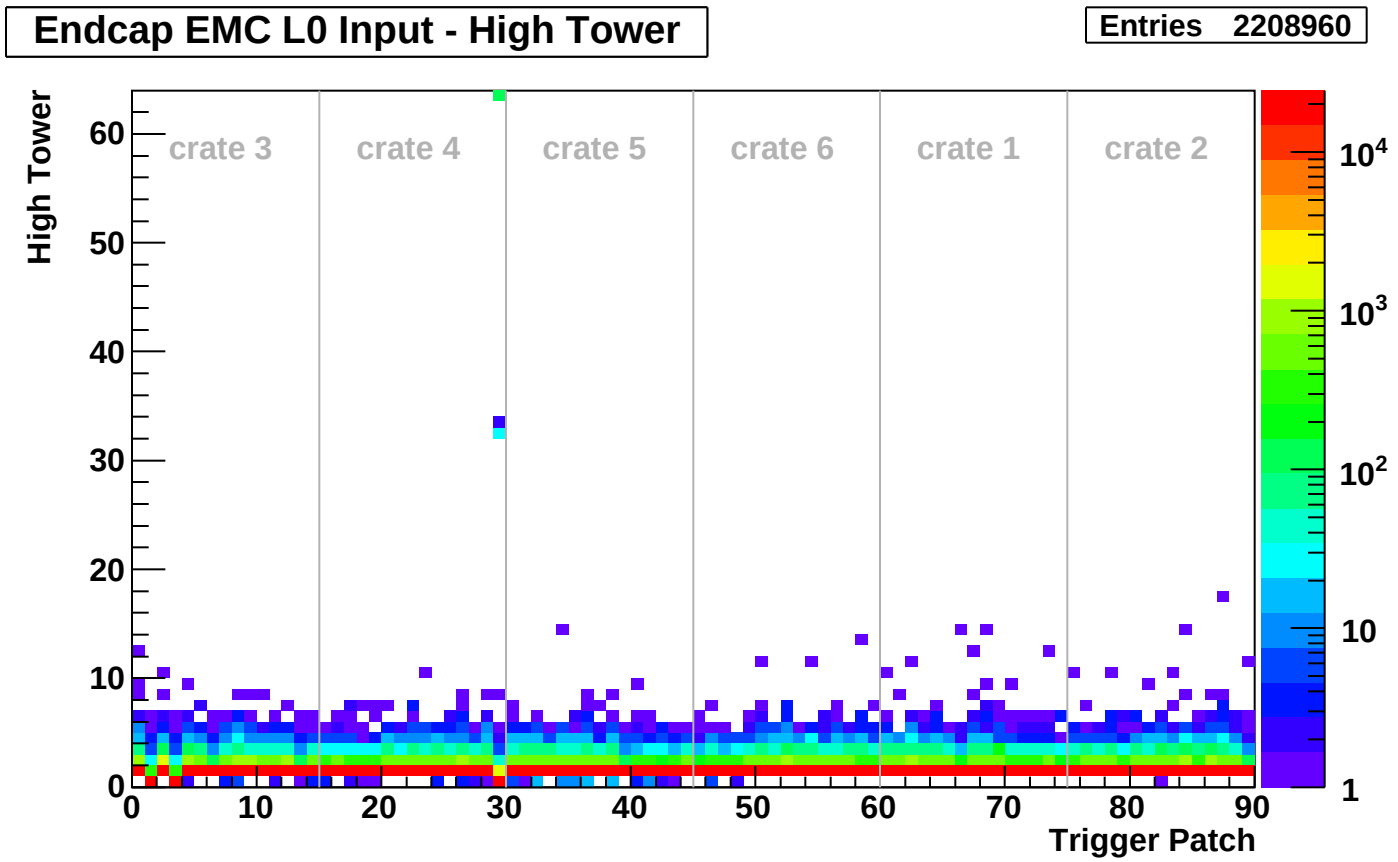

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

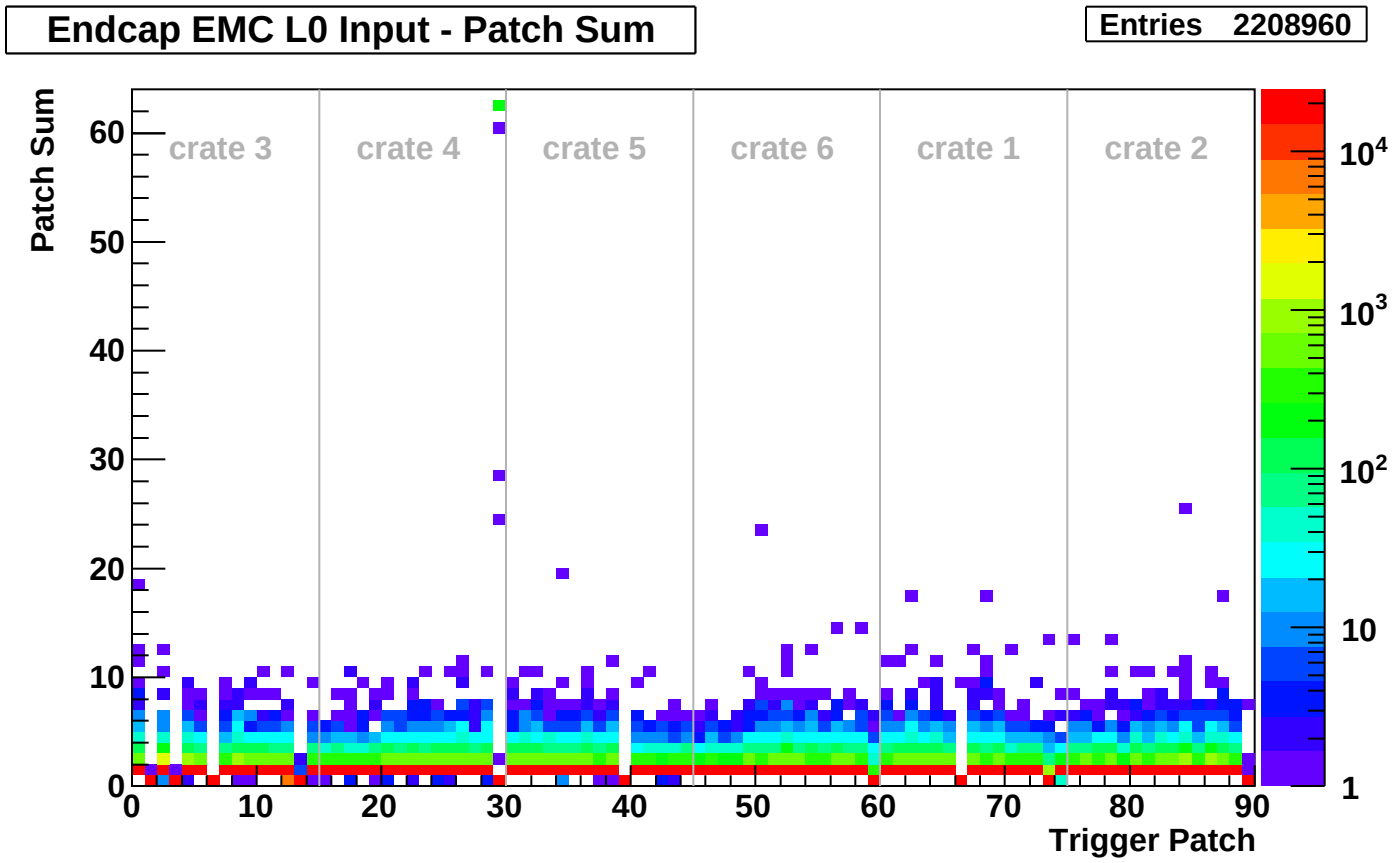

TCU bits
Entries 392704
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

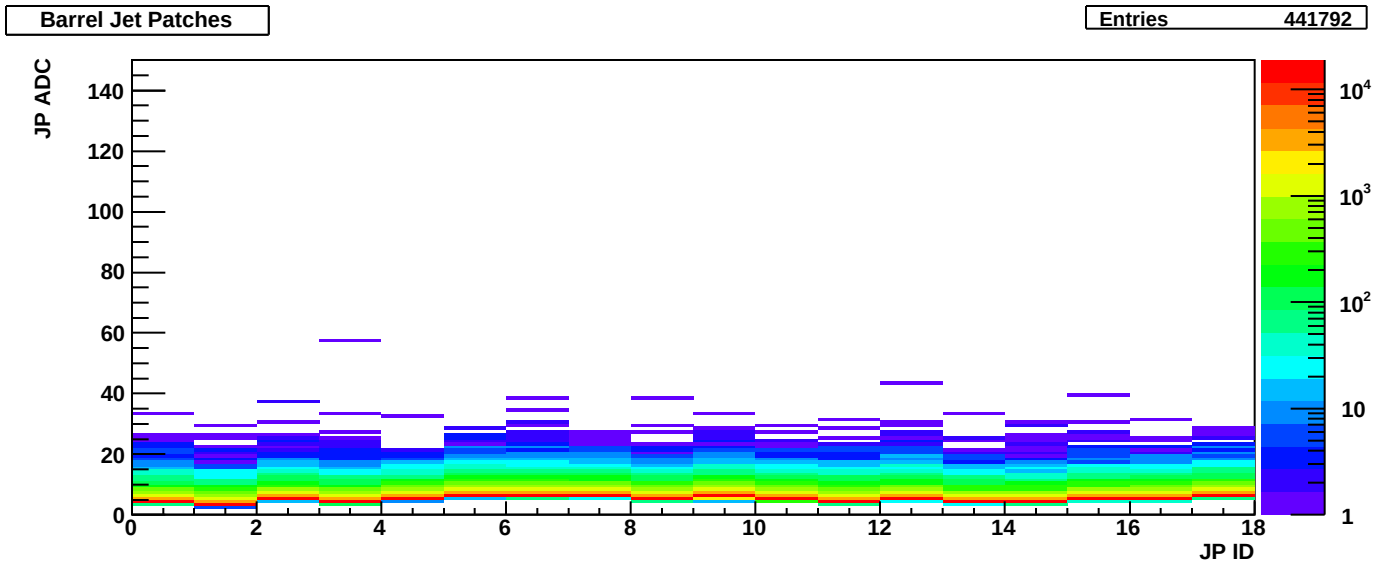

TCU bits
Entries 22570
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

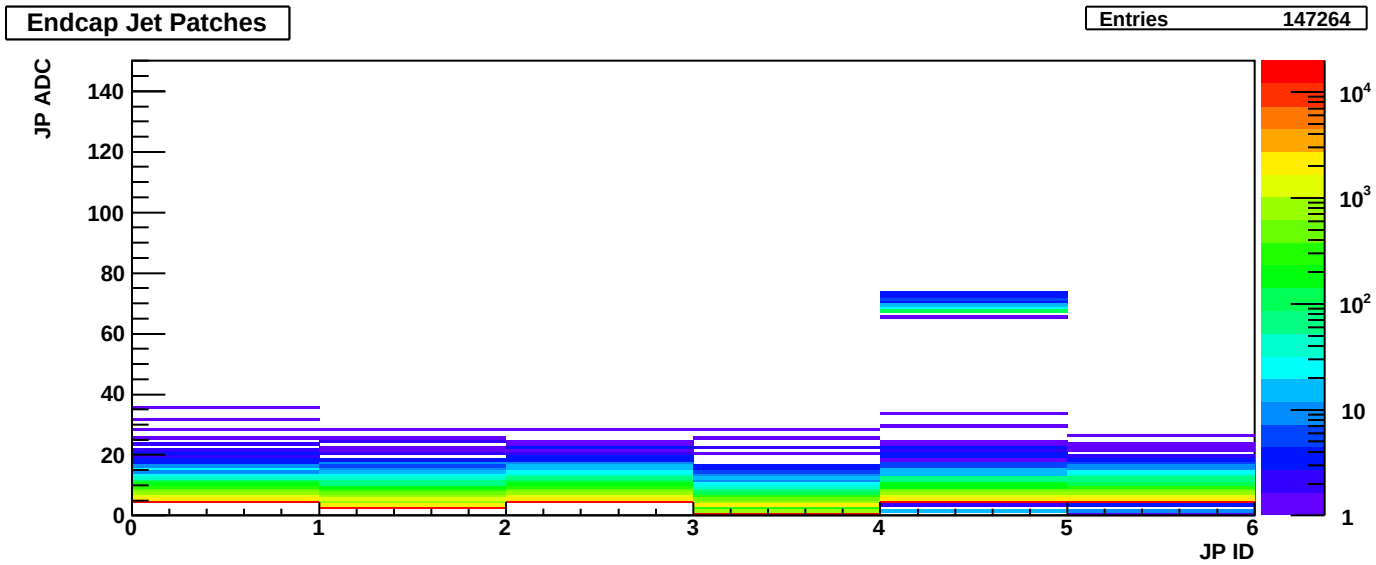

Barrel EMC L0 Input - High Tower
Entries 7363200
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

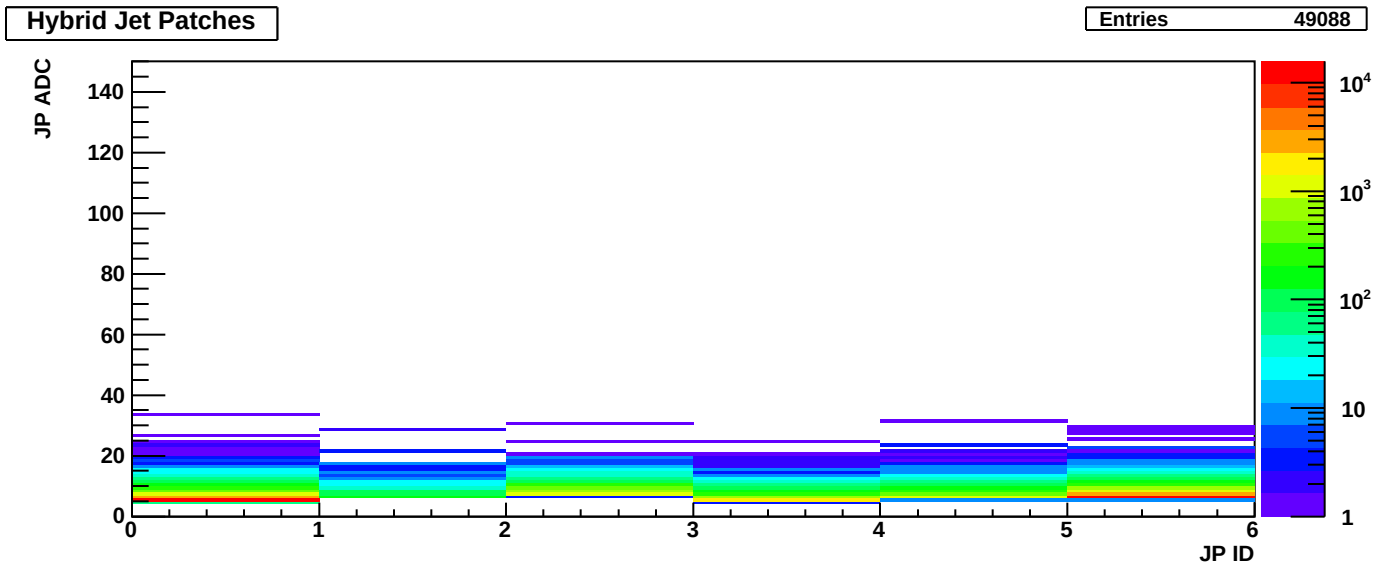

Barrel EMC L0 Input - Patch Sum
Entries 7363200
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

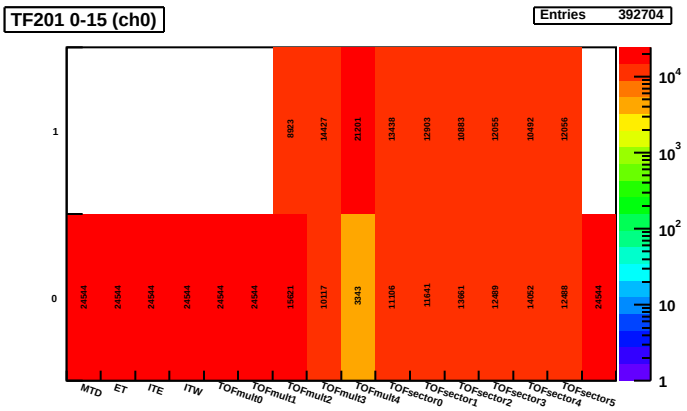

Endcap EMC L0 Input - High Tower
Entries 2208960
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

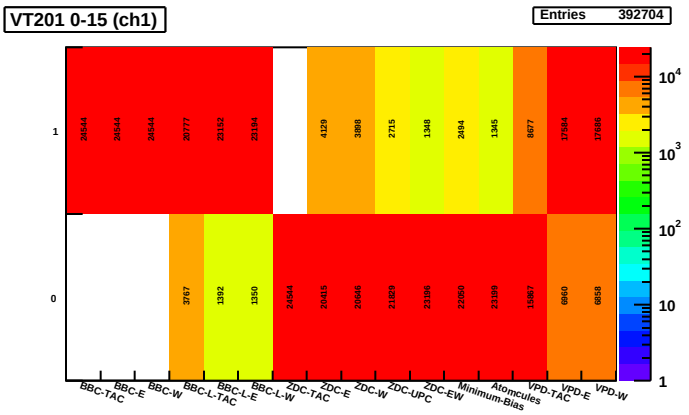

Endcap EMC L0 Input - Patch Sum
Entries 2208960
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

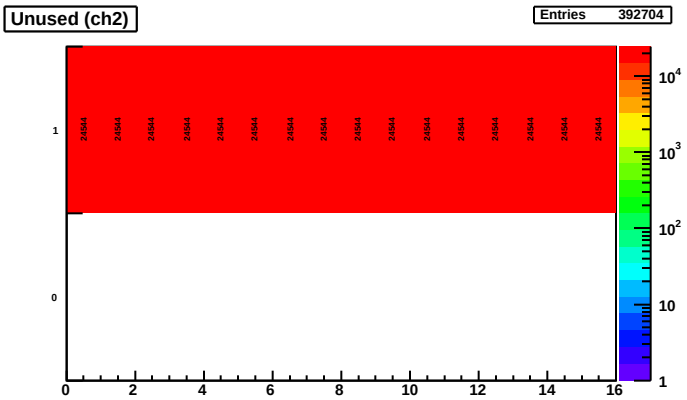

Barrel Jet Patches
Entries 441792
JP ADC
JP ID

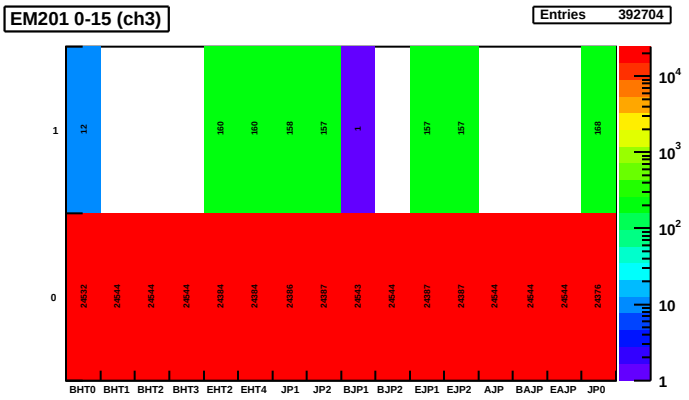

Endcap Jet Patches
Entries 147264
JP ADC
JP ID

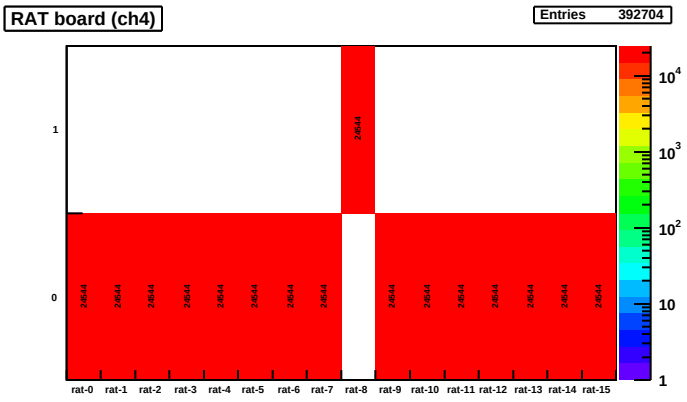

Hybrid Jet Patches
Entries 49088
JP ADC
JP ID

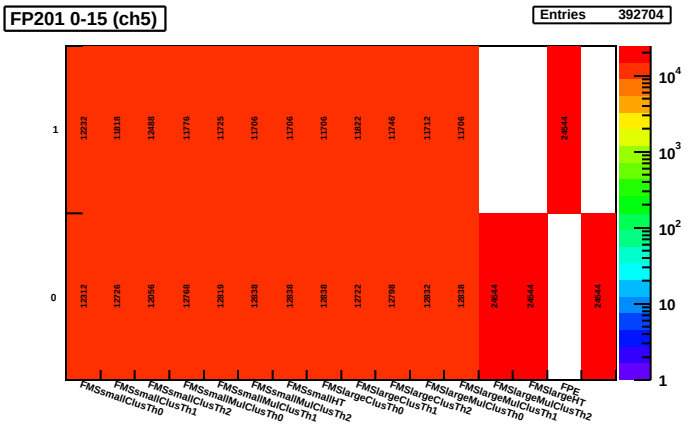

TF201 0-15 (ch0)
Entries 392704
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

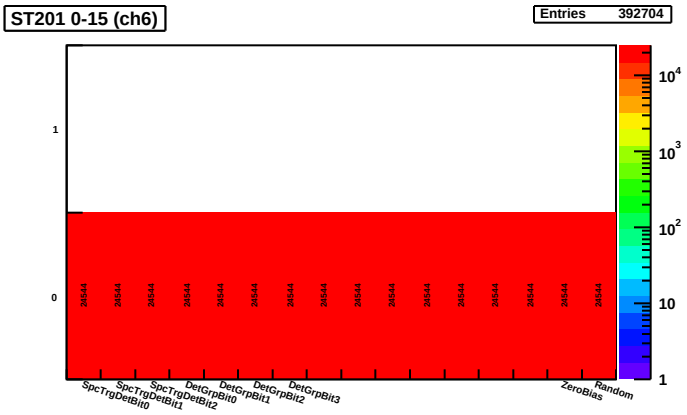

VT201 0-15 (ch1)
Entries 392704
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

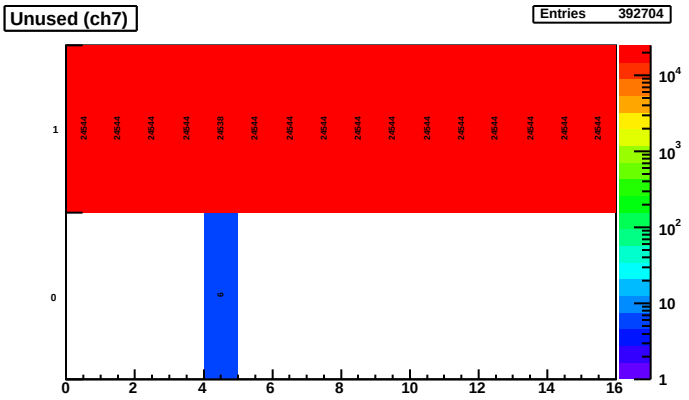

Unused (ch2)
Entries 392704

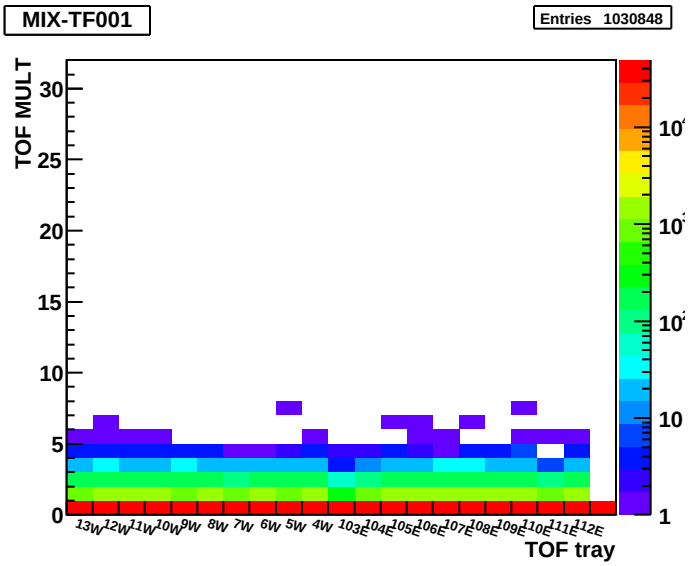

EM201 0-15 (ch3)
Entries 392704
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

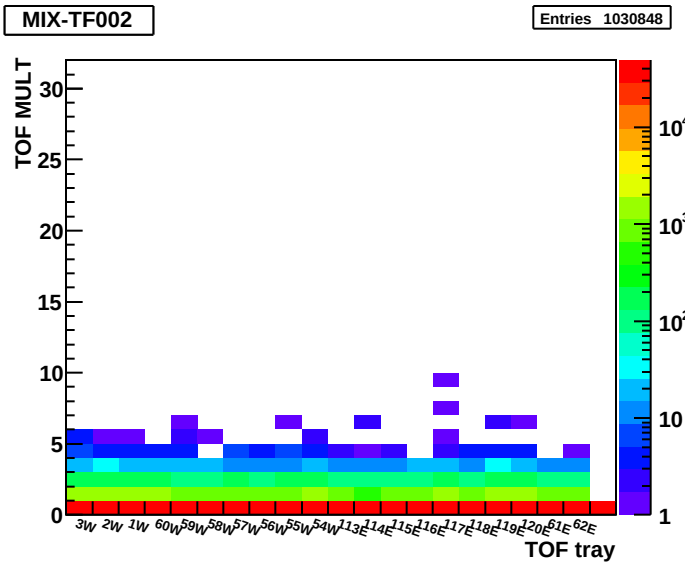

RAT board (ch4)
Entries 392704
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

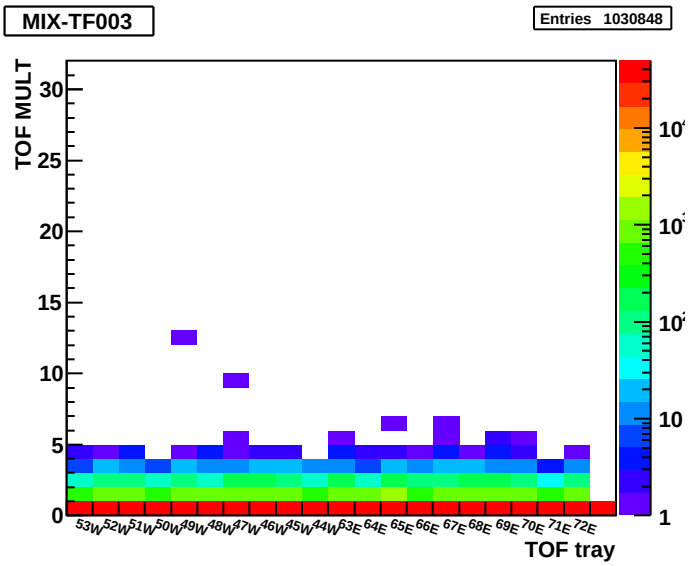

FP201 0-15 (ch5)
Entries 392704
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

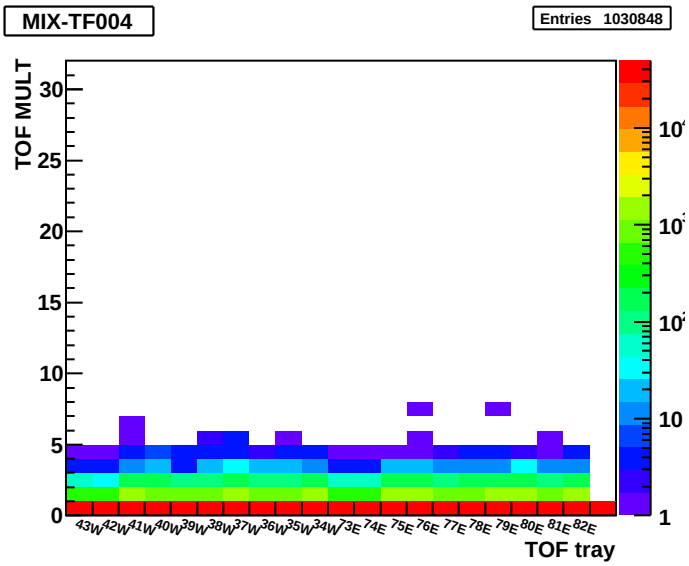

ST201 0-15 (ch6)
Entries 392704
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random

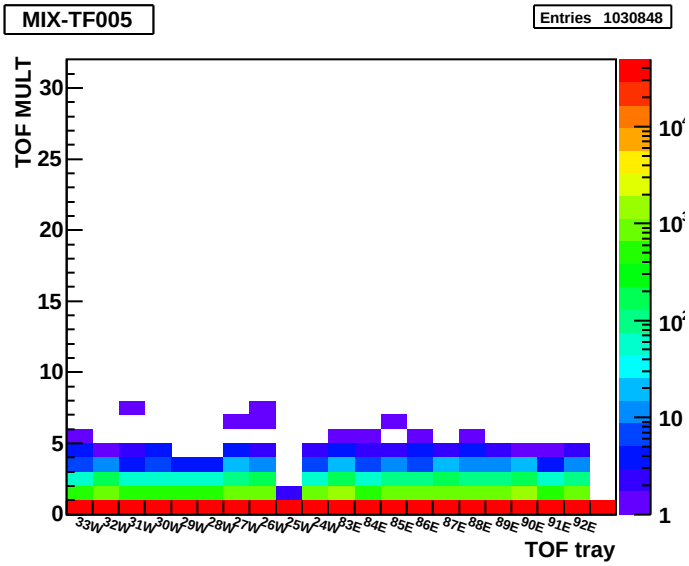

Unused (ch7)
Entries 392704

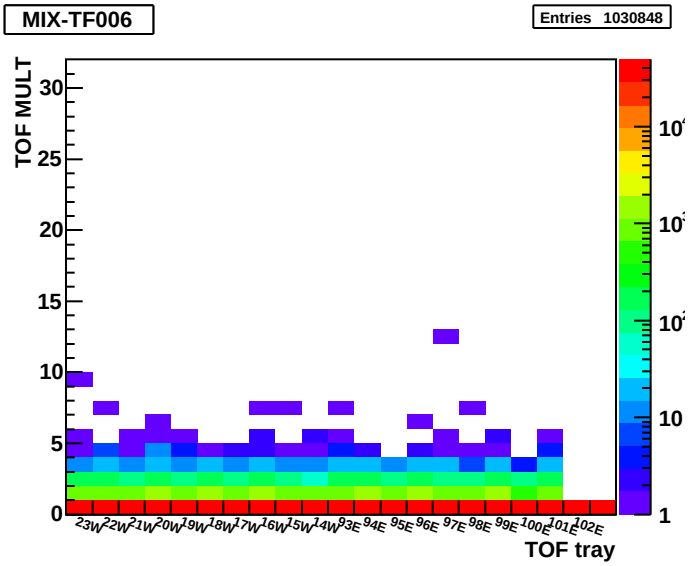

MIX-TF001
Entries 1030848
TOF MULT
TOF tray

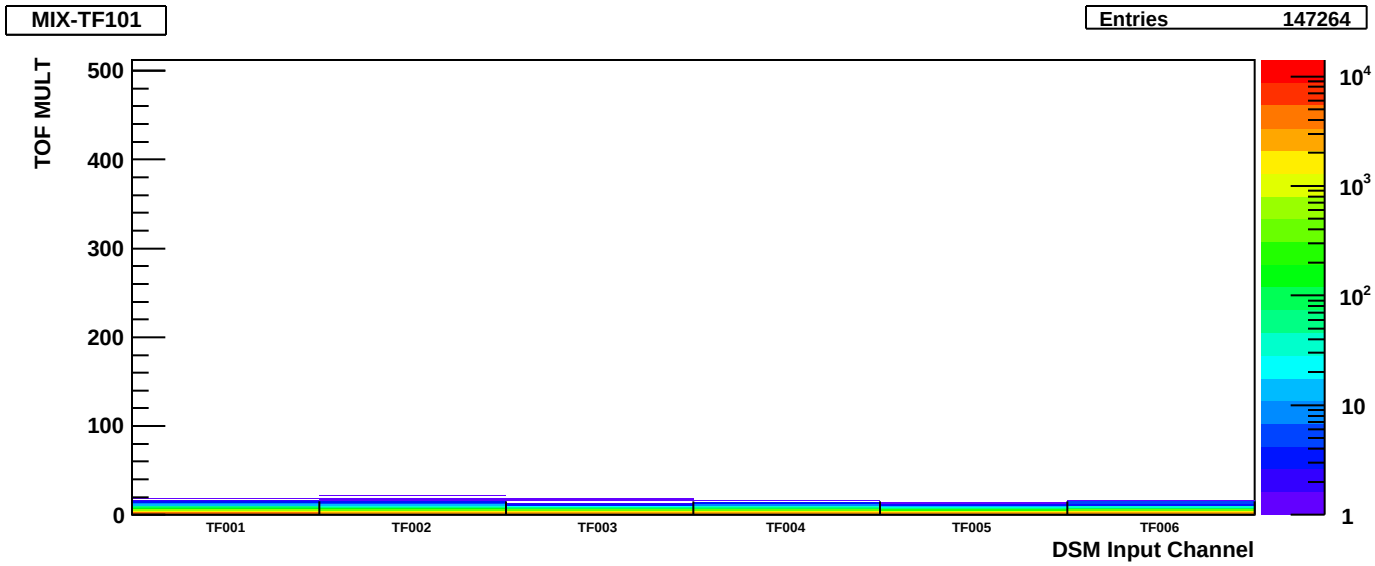

MIX-TF002
Entries 1030848
TOF MULT
TOF tray

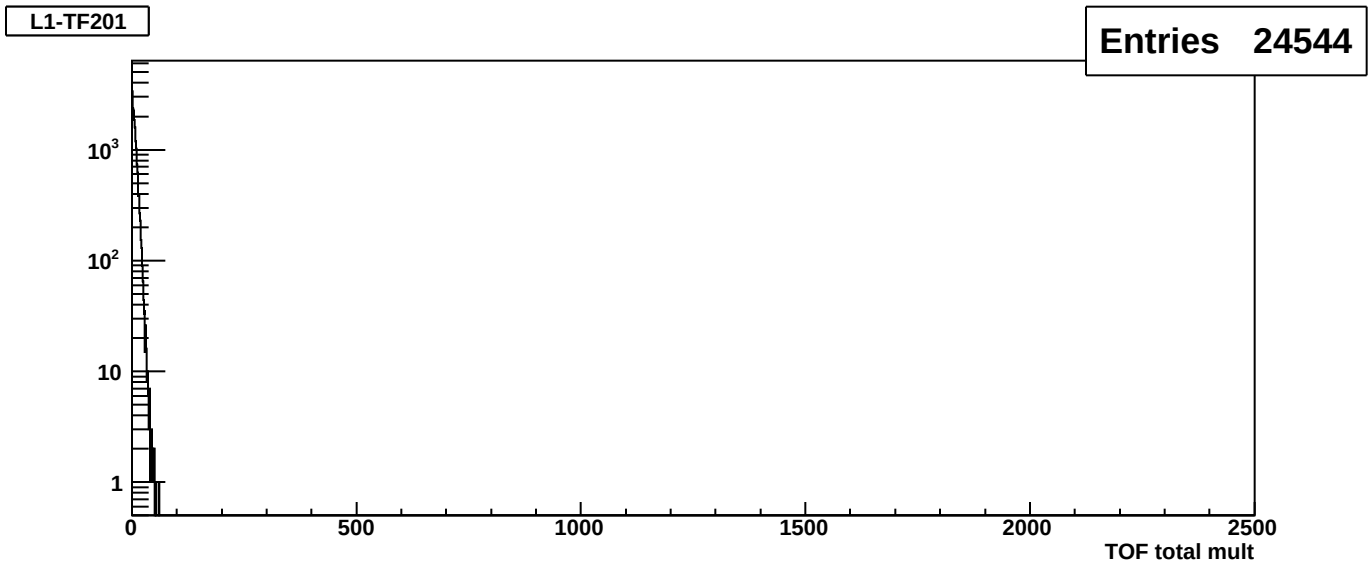

MIX-TF003
Entries 1030848
TOF MULT
TOF tray

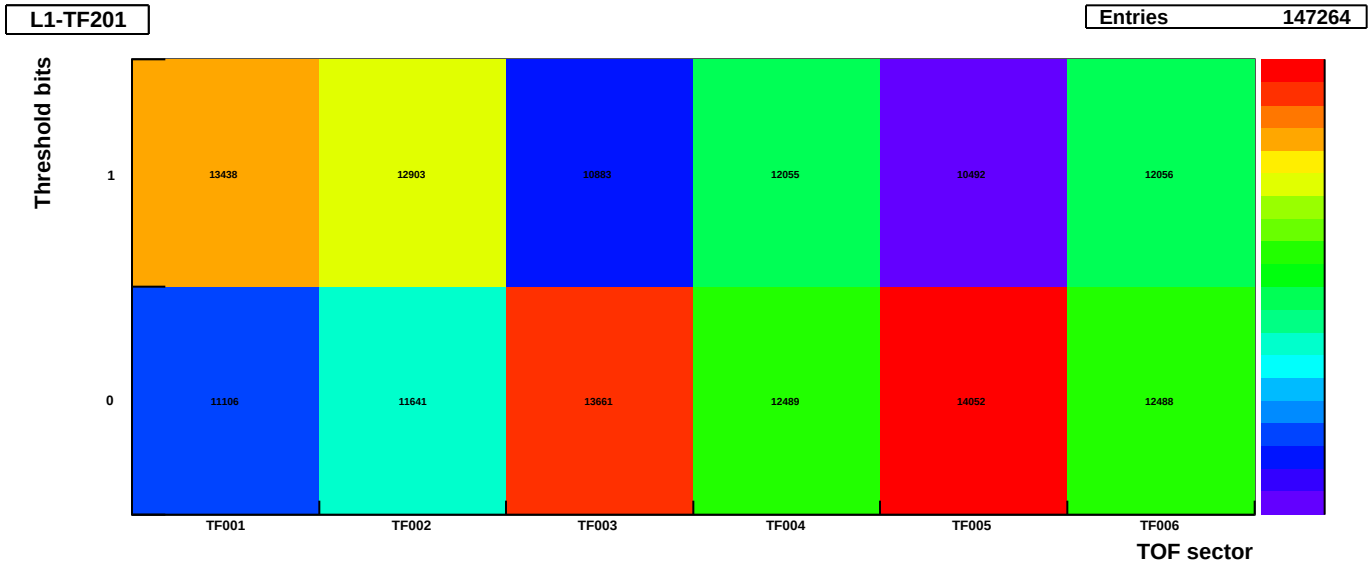

MIX-TF004
Entries 1030848
TOF MULT
TOF tray

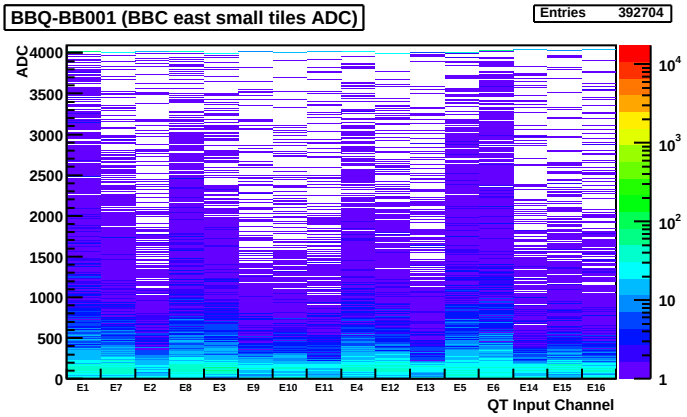

MIX-TF005
Entries 1030848
TOF MULT
TOF tray

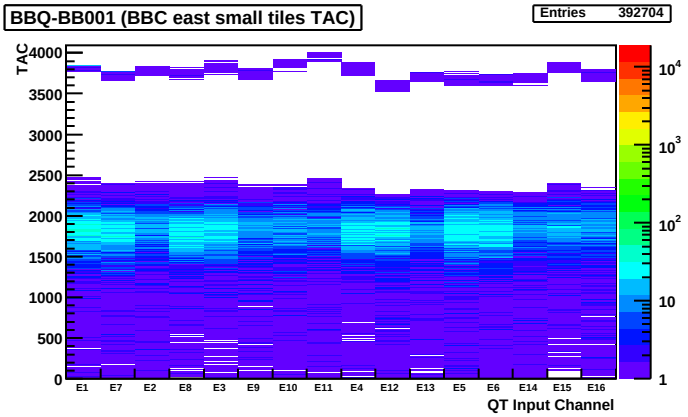

MIX-TF006
Entries 1030848
TOF MULT
TOF tray

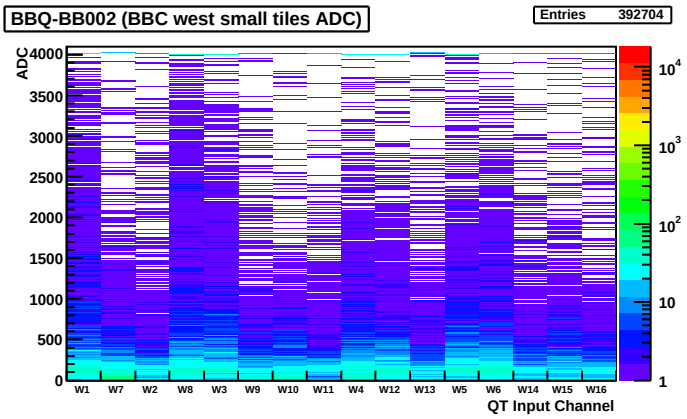

MIX-TF101
Entries 147264
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

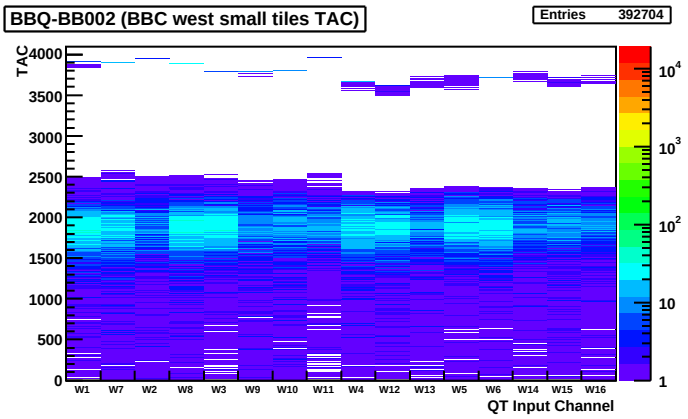

L1-TF201
Entries 24544
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

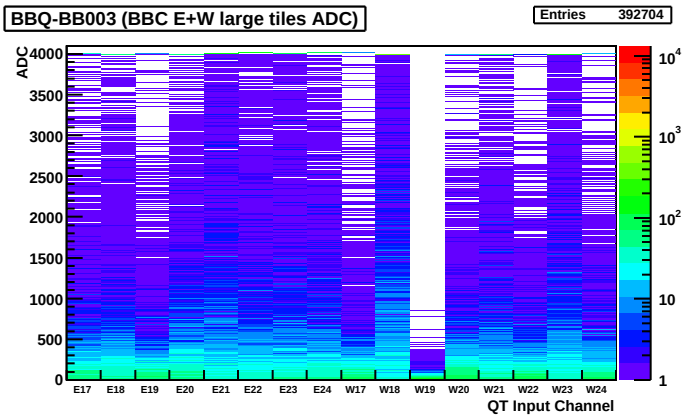

L1-TF201
Entries 147264
Threshold bits
1
0
13438
12903
10883
12055
10492
12056
11106
11641
13661
12489
14052
12488
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

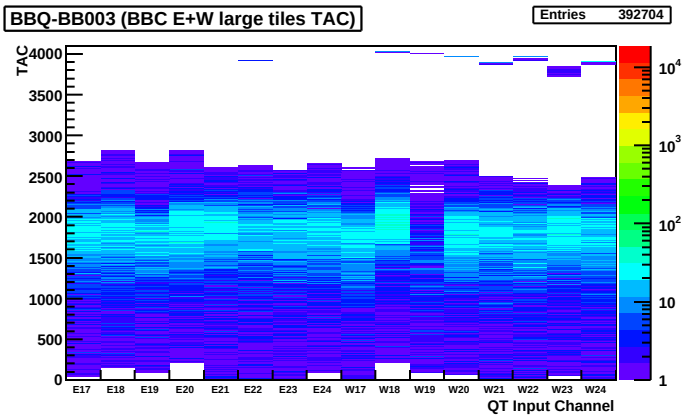

BBQ-BB001 (BBC east small tiles ADC)
Entries 392704
ADC
QT Input Channel

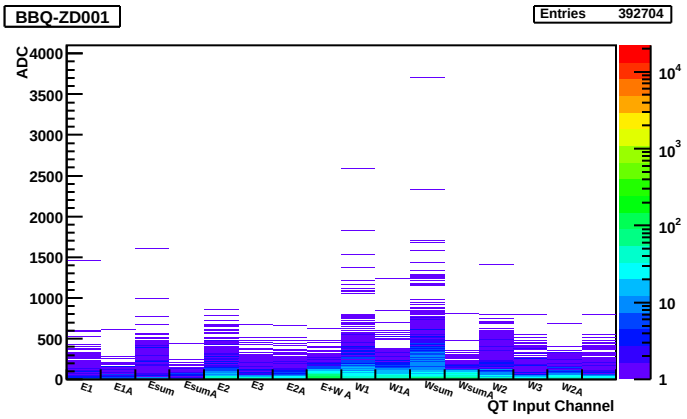

BBQ-BB001 (BBC east small tiles TAC)
Entries 392704
TAC
QT Input Channel

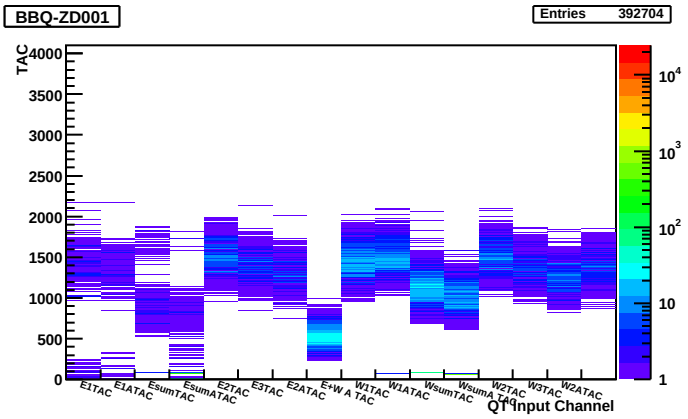

BBQ-BB002 (BBC west small tiles ADC)
Entries 392704
ADC
QT Input Channel

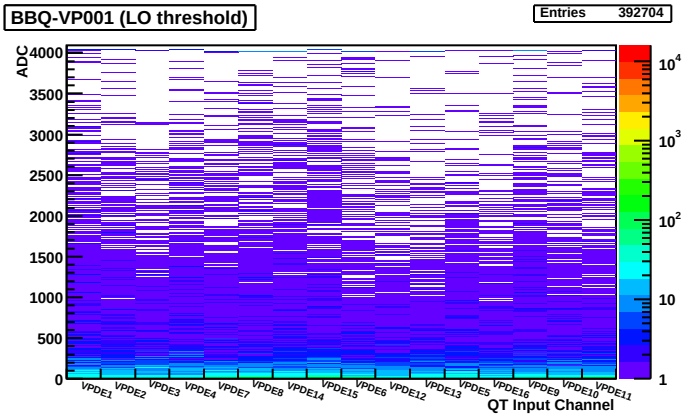

BBQ-BB002 (BBC west small tiles TAC)
Entries 392704
TAC
QT Input Channel

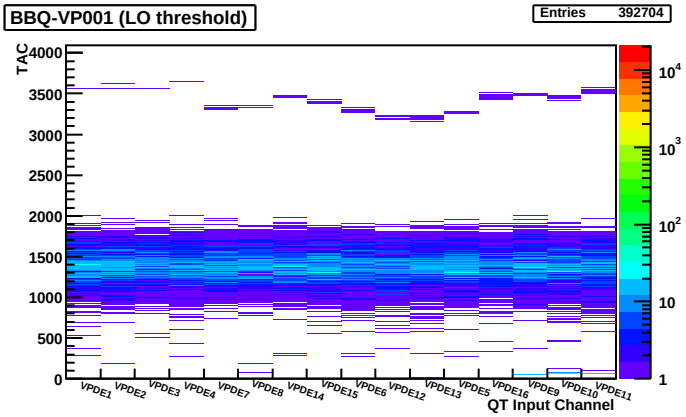

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 392704
ADC
QT Input Channel

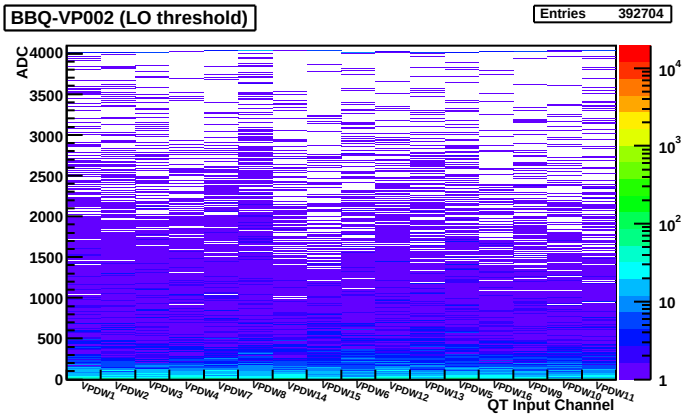

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 392704
TAC
QT Input Channel

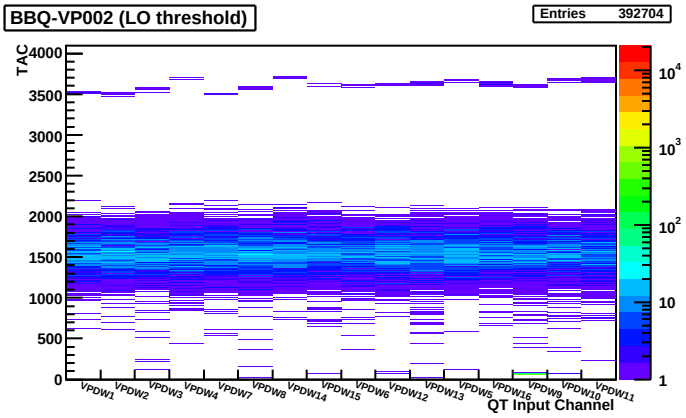

BBQ-ZD001
Entries 392704
ADC
QT Input Channel

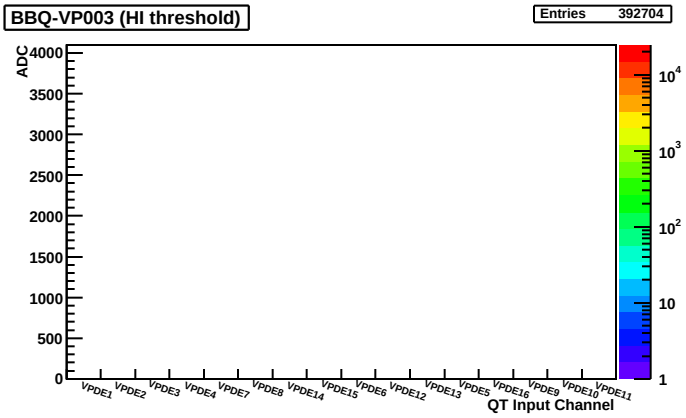

BBQ-ZD001
Entries 392704
TAC
QT Input Channel

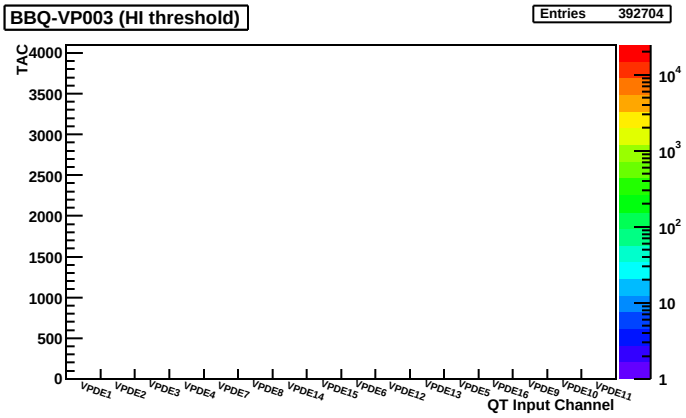

BBQ-VP001 (LO threshold)
Entries 392704
ADC
QT Input Channel

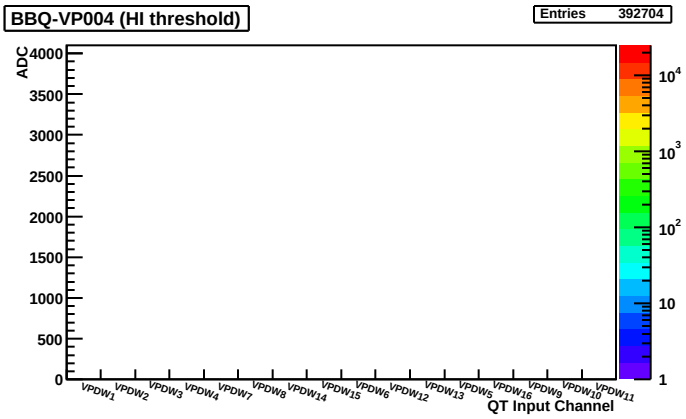

BBQ-VP001 (LO threshold)
Entries 392704
TAC
QT Input Channel

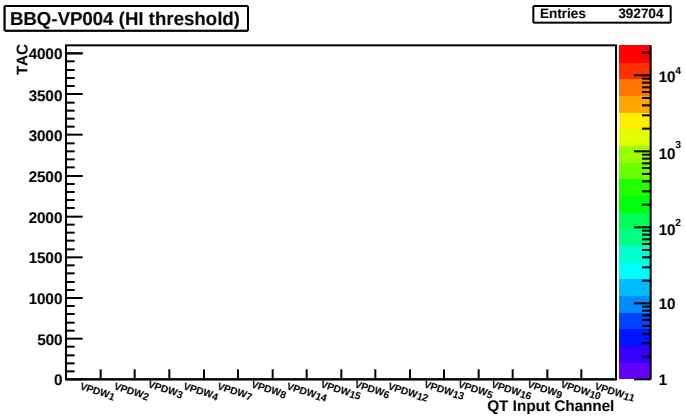

BBQ-VP002 (LO threshold)
Entries 392704
ADC
QT Input Channel

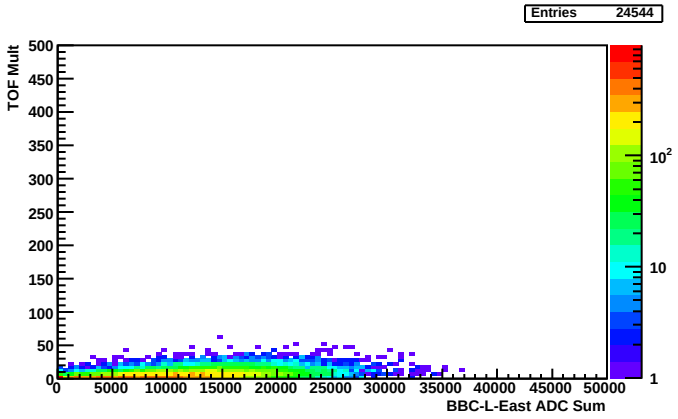

BBQ-VP002 (LO threshold)
Entries 392704
TAC
QT Input Channel

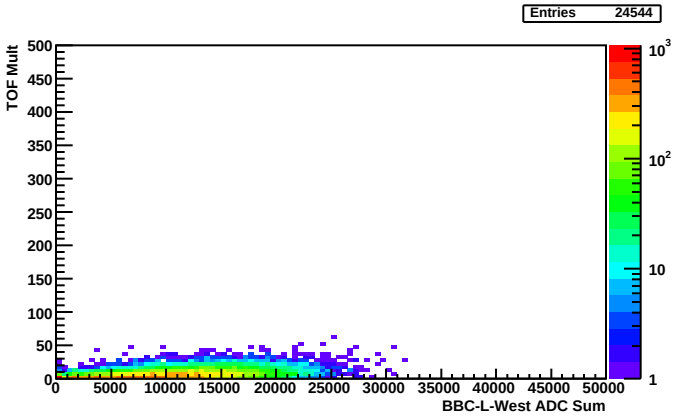

BBQ-VP003 (HI threshold)
Entries 392704
ADC
QT Input Channel

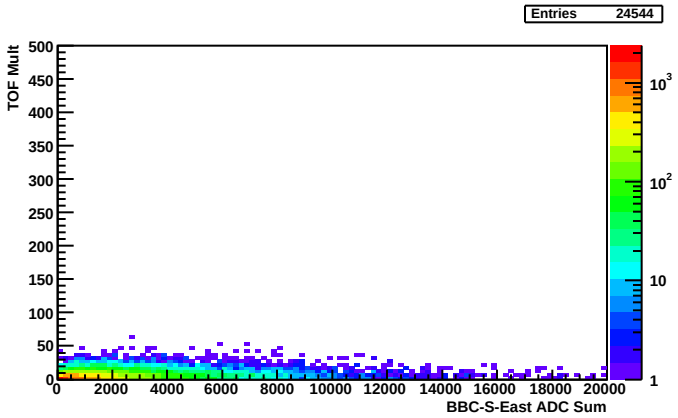

BBQ-VP003 (HI threshold)
Entries 392704
TAC
QT Input Channel

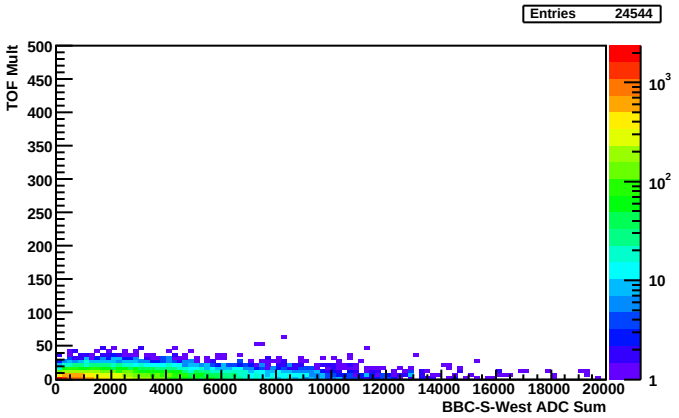

BBQ-VP004 (HI threshold)
Entries 392704
ADC
QT Input Channel

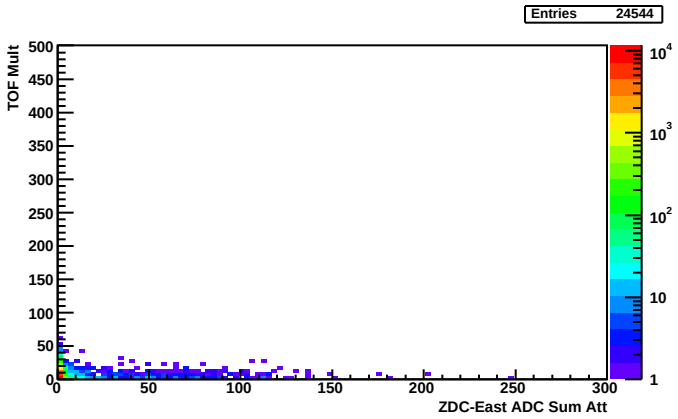

BBQ-VP004 (HI threshold)
Entries 392704
TAC
QT Input Channel

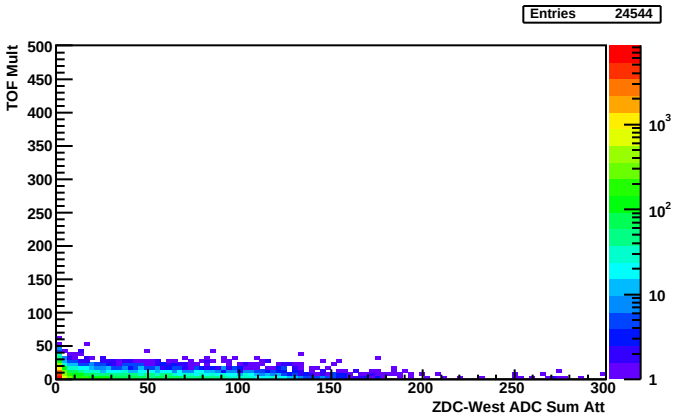

Entries 24544
TOF Mult
BBC-L-East ADC Sum

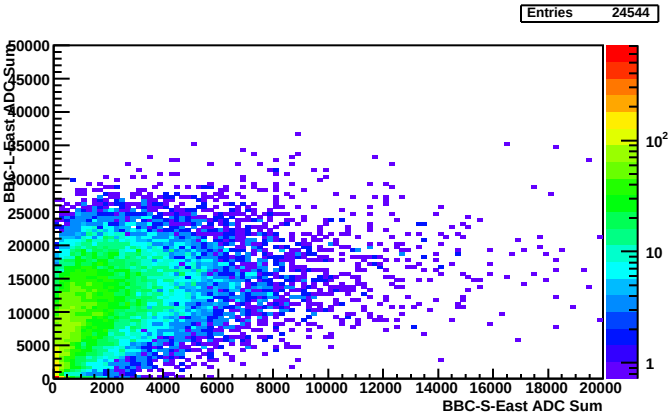

Entries 24544
TOF Mult
BBC-L-West ADC Sum

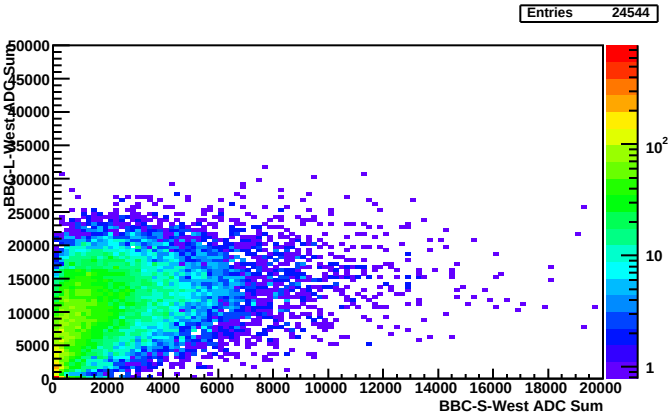

Entries 24544
TOF Mult
BBC-S-East ADC Sum

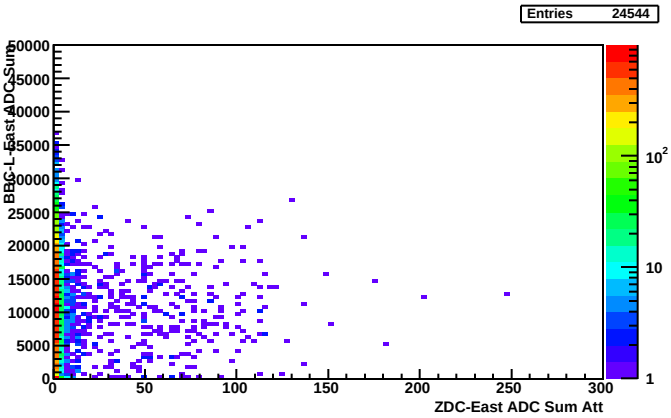

Entries 24544
TOF Mult
BBC-S-West ADC Sum

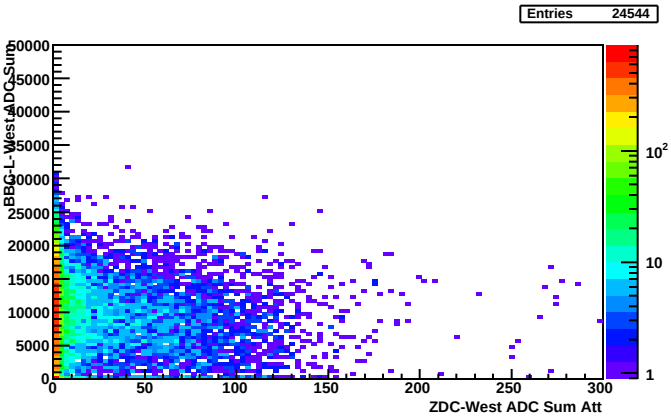

Entries 24544
TOF Mult
ZDC-East ADC Sum Att

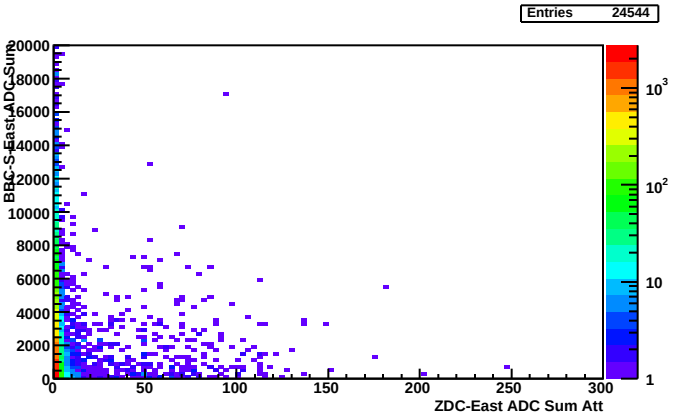

Entries 24544
TOF Mult
ZDC-West ADC Sum Att

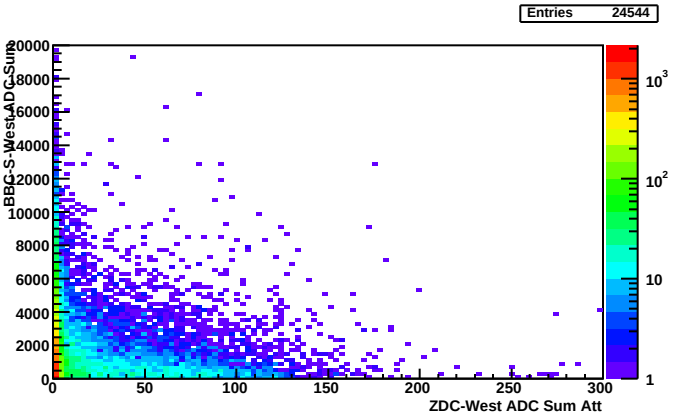

Entries 24544
BBC-L-East ADC Sum
BBC-S-East ADC Sum

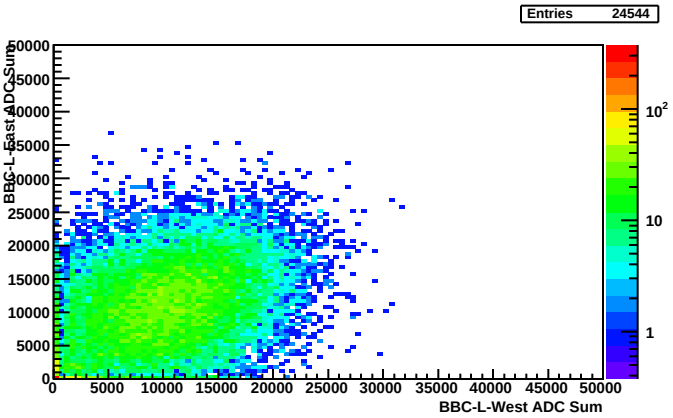

Entries 24544
BBC-L-West ADC Sum
BBC-S-West ADC Sum

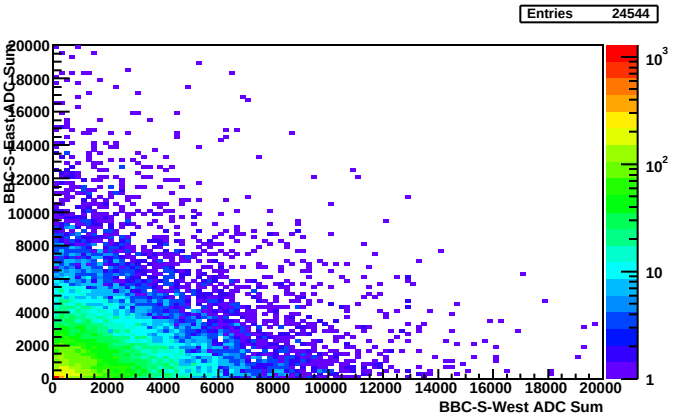

Entries 24544
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

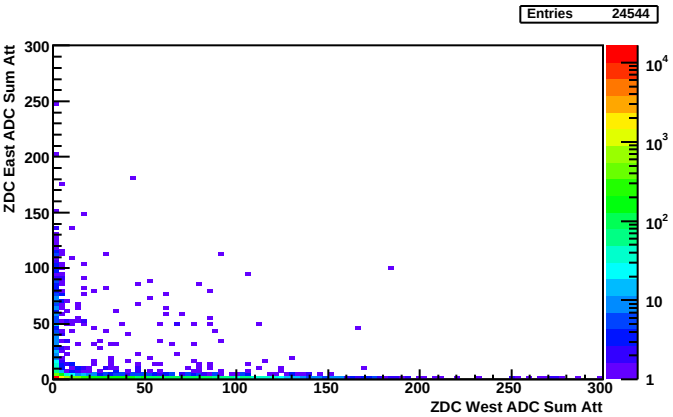

Entries 24544
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

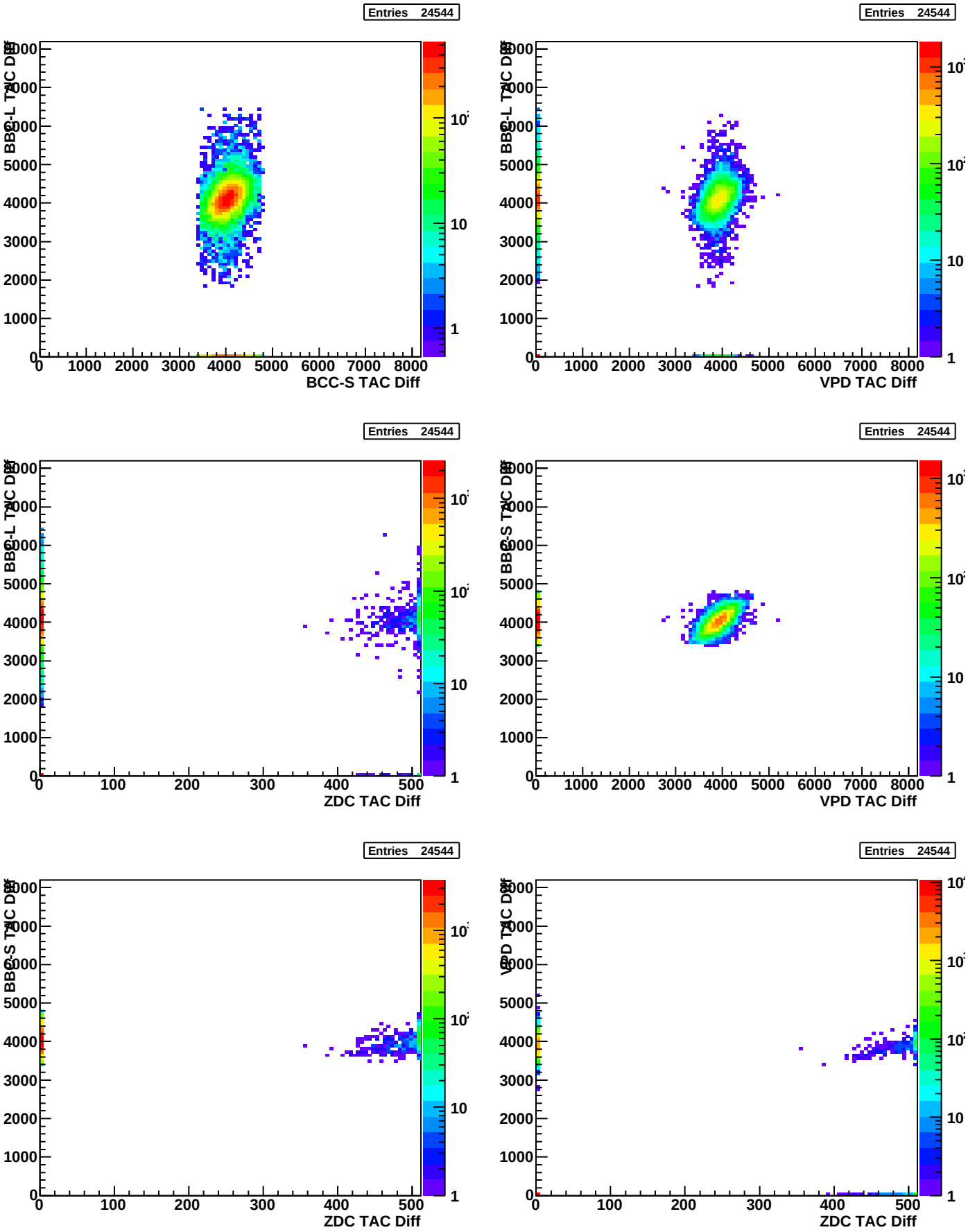

Entries 24544
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

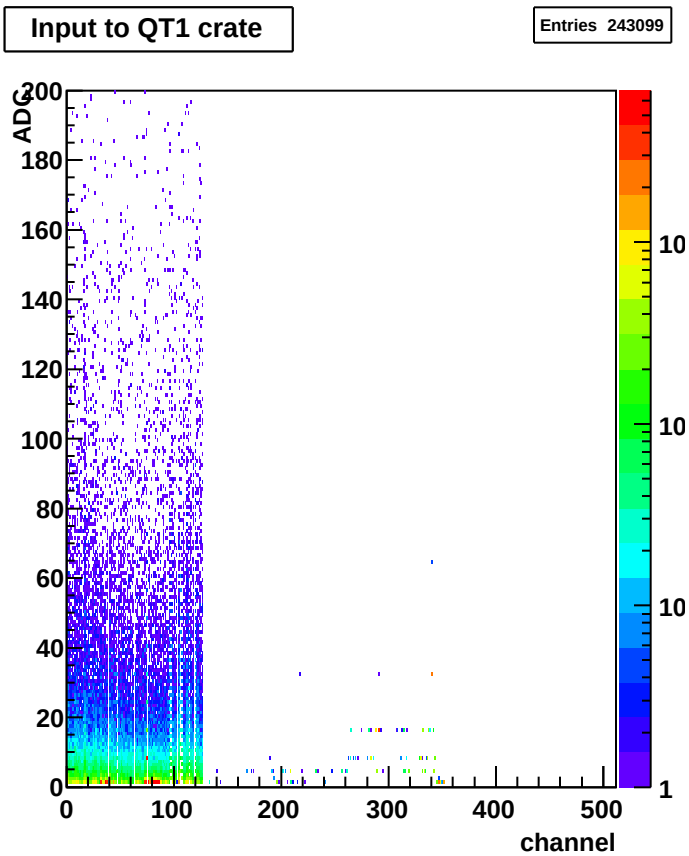

Entries 24544
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

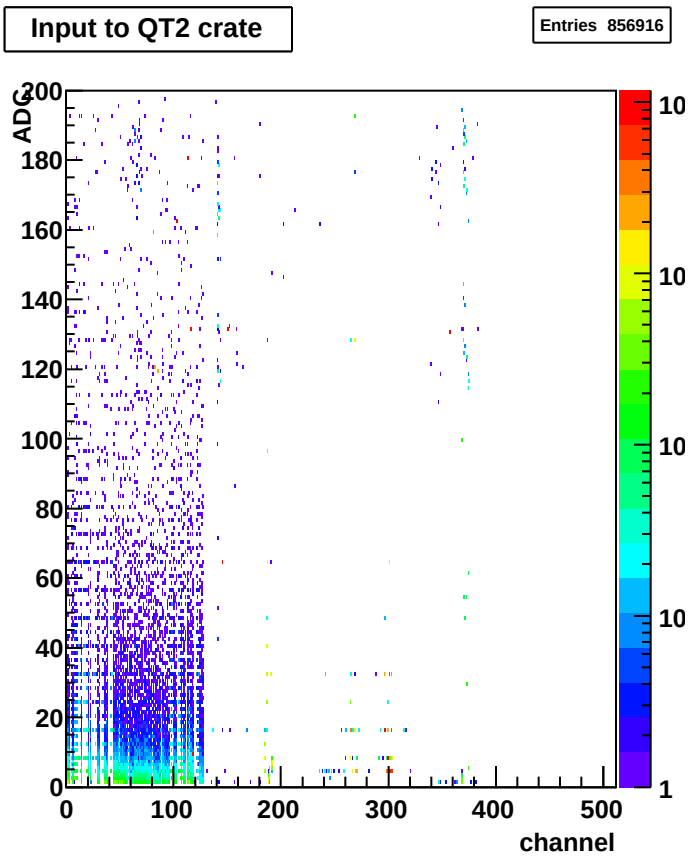

Entries 24544
BBC-L-East ADC Sum
BBC-L-West ADC Sum

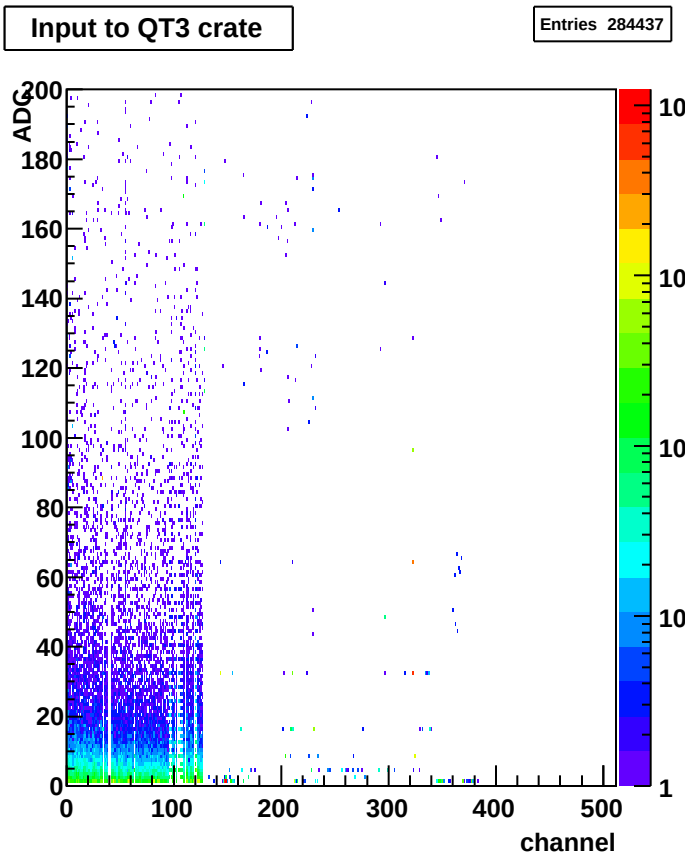

Entries 24544
BBC-S-East ADC Sum
BBC-S-West ADC Sum

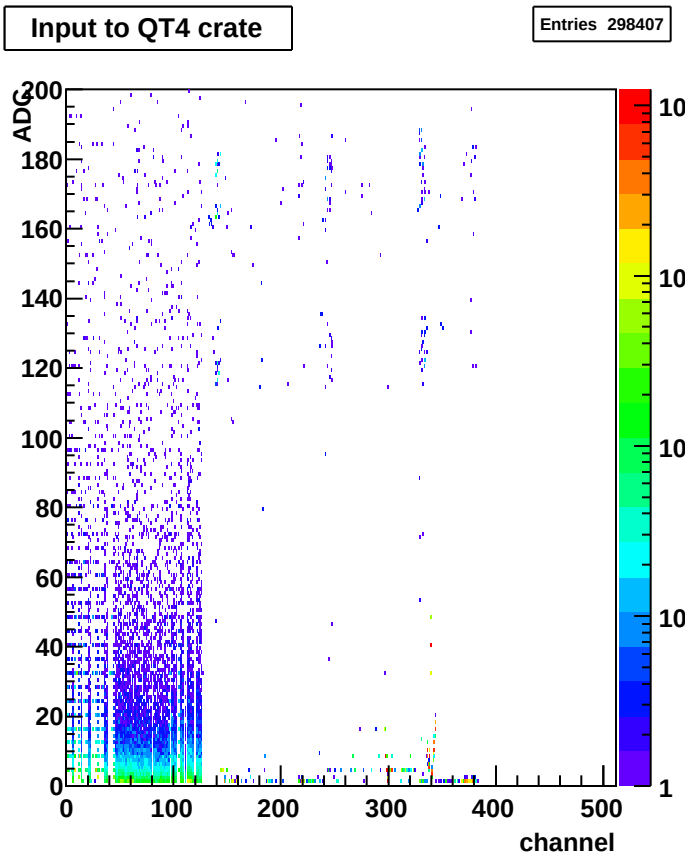

Entries 24544
ZDC East ADC Sum Att
ZDC West ADC Sum Att

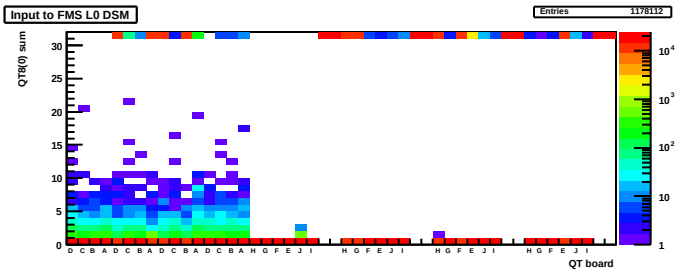

Entries 24544
BBC-L TAC Diff
BCC-S TAC Diff
Entries 24544
BBC-L TAC Diff
VPD TAC Diff
Entries 24544
BBC-L TAC Diff
ZDC TAC Diff
Entries 24544
BBC-S TAC Diff
VPD TAC Diff
Entries 24544
BBC-S TAC Diff
ZDC TAC Diff
Entries 24544
VPD TAC Diff
ZDC TAC Diff

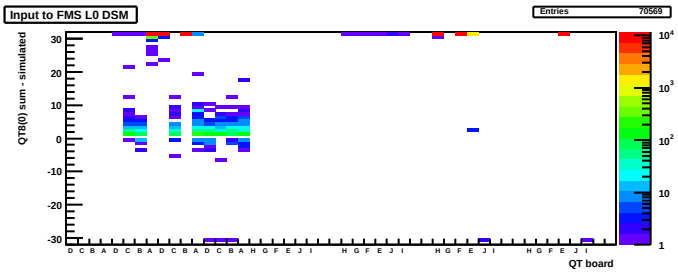

Input to QT1 crate
Entries 243099
ADC
channel

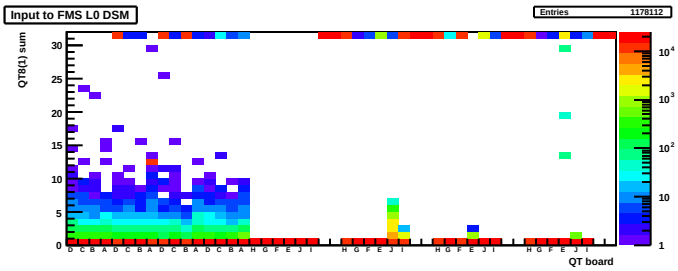

Input to QT2 crate
Entries 856916
ADC
channel

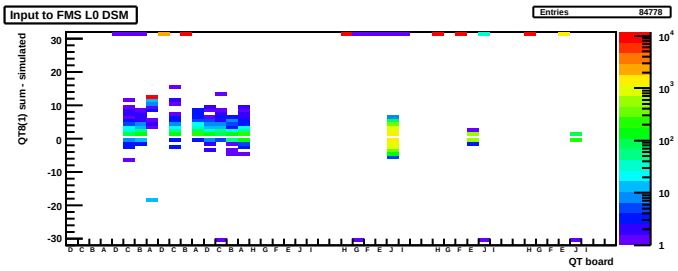

Input to QT3 crate
Entries 284437
ADC
channel

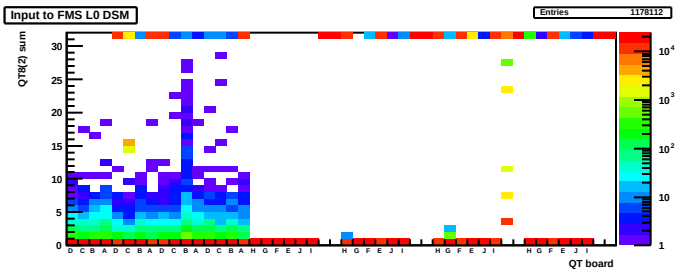

Input to QT4 crate
Entries 298407
ADC
channel

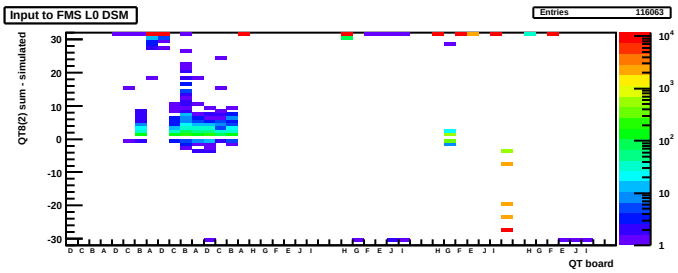

Input to FMS L0 DSM
Entries 1178112
QT8(0) sum
QT board

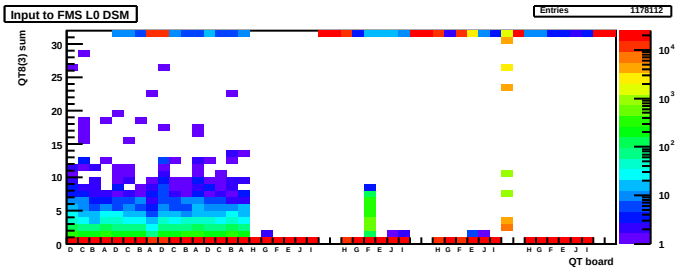

Input to FMS L0 DSM
Entries 70569
QT8(0) sum - simulated
QT board

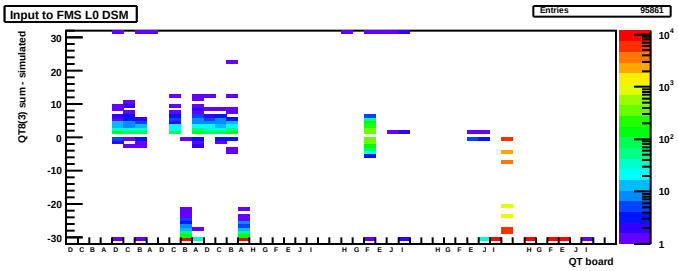

Input to FMS L0 DSM
Entries 1178112
QT8(1) sum
QT board

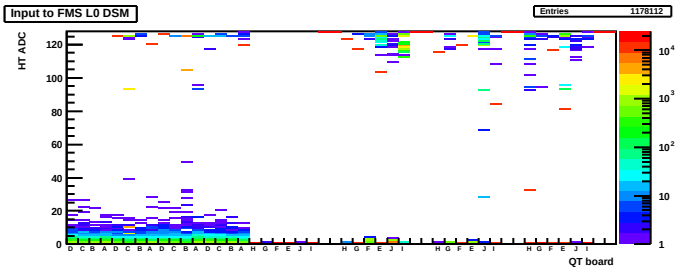

Input to FMS L0 DSM
Entries 84778
QT8(1) sum - simulated
QT board

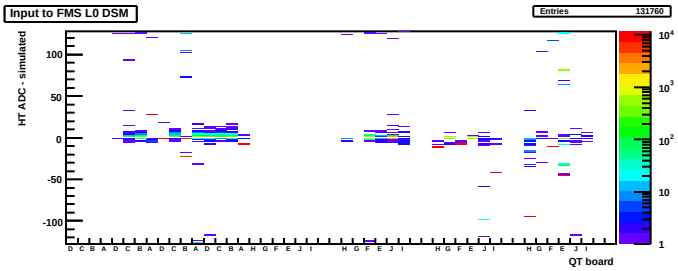

Input to FMS L0 DSM
Entries 1178112
QT8(2) sum
QT board

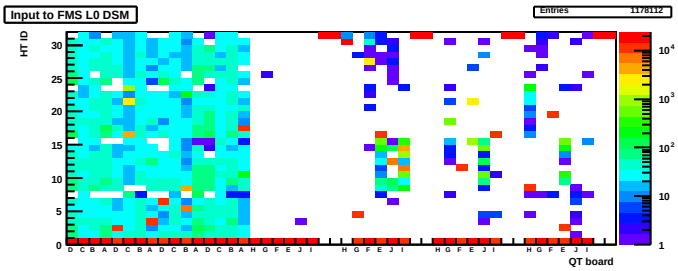

Input to FMS L0 DSM
Entries 116063
QT8(2) sum - simulated
QT board

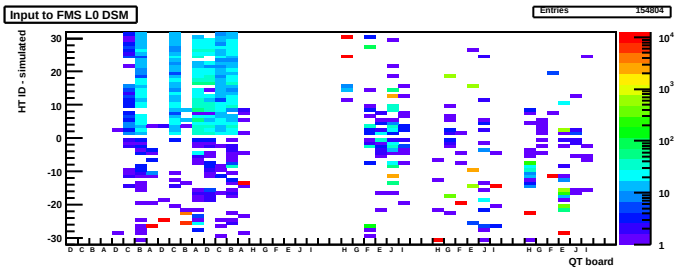

Input to FMS L0 DSM
Entries 1178112
QT8(3) sum
QT board

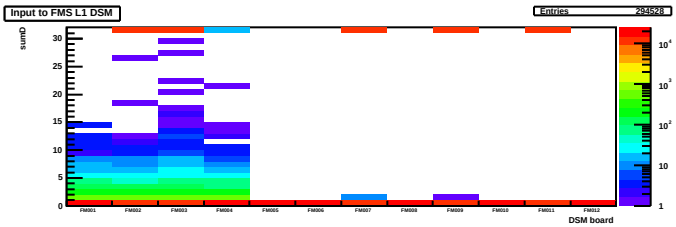

Input to FMS L0 DSM
Entries 95861
QT8(3) sum - simulated
QT board

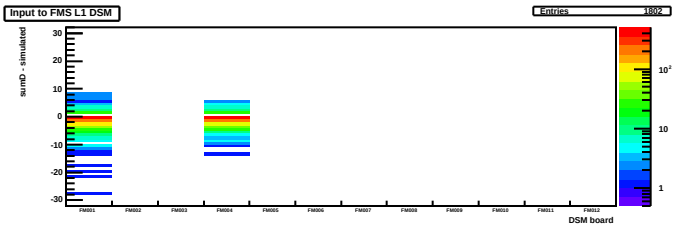

Input to FMS L0 DSM
Entries 1178112
HT ADC
QT board

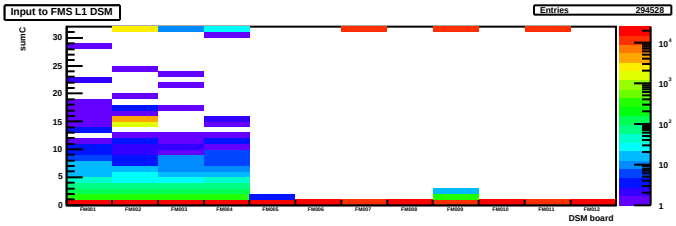

Input to FMS L0 DSM
Entries 131760
HT ADC - simulated
QT board

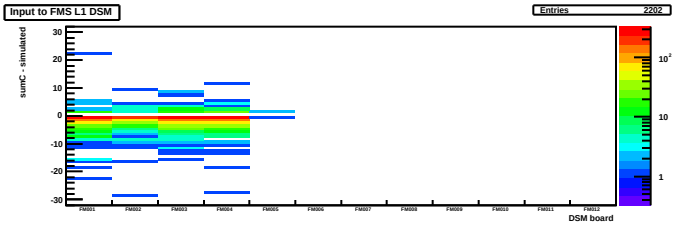

Input to FMS L0 DSM
Entries 1178112
HT ID
QT board

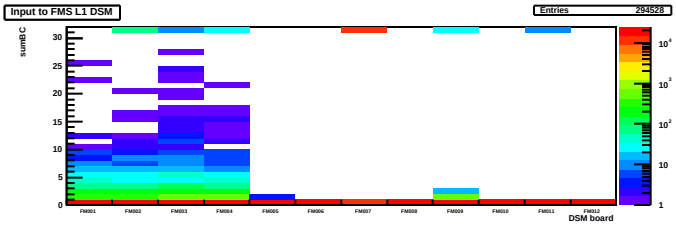

Input to FMS L0 DSM
Entries 154804
HT ID - simulated
QT board

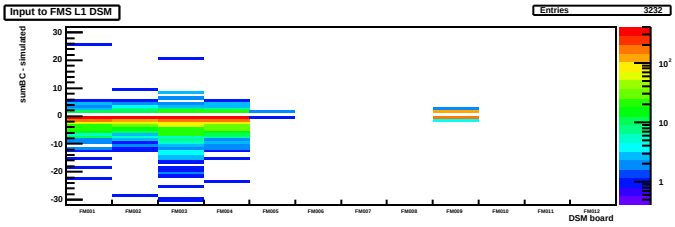

Input to FMS L1 DSM
Entries 294528
sumD
DSM board

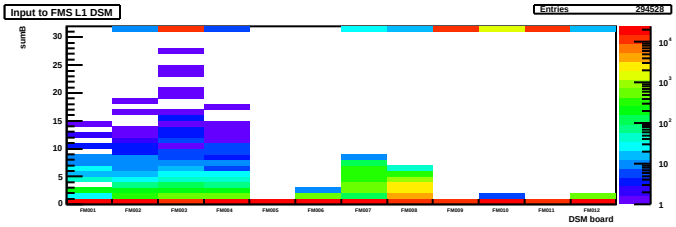

Input to FMS L1 DSM
Entries 1802
sumD - simulated
DSM board

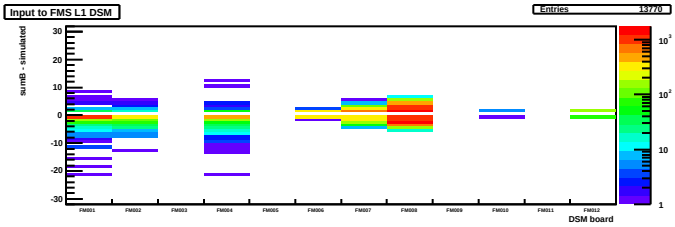

Input to FMS L1 DSM
Entries 294528
sumC
DSM board

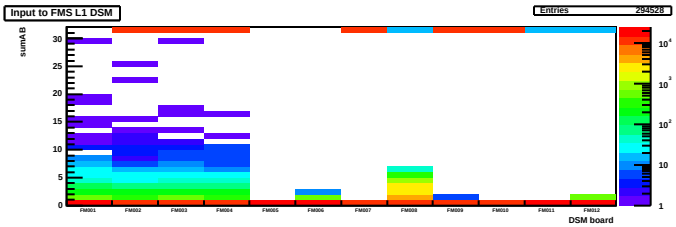

Input to FMS L1 DSM
Entries 2202
sumC - simulated
DSM board

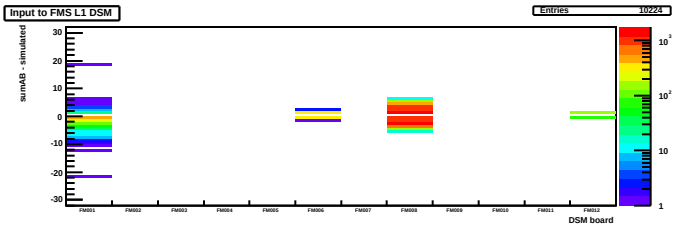

Input to FMS L1 DSM
Entries 294528
sumBC
DSM board

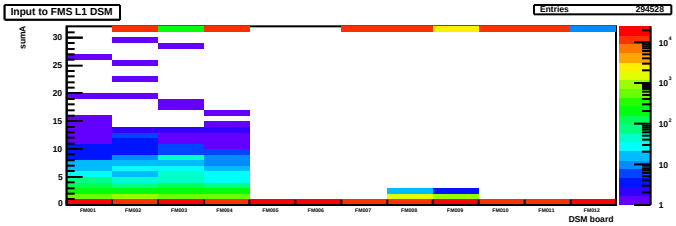

Input to FMS L1 DSM
Entries 3232
sumBC - simulated
DSM board

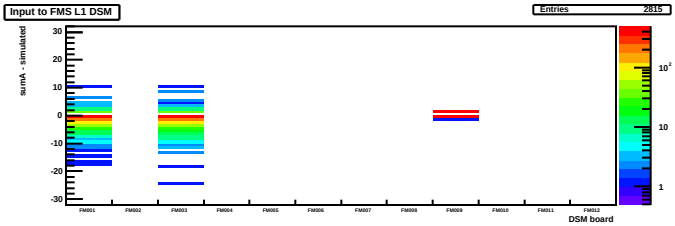

Input to FMS L1 DSM
Entries 294528
sumB
DSM board

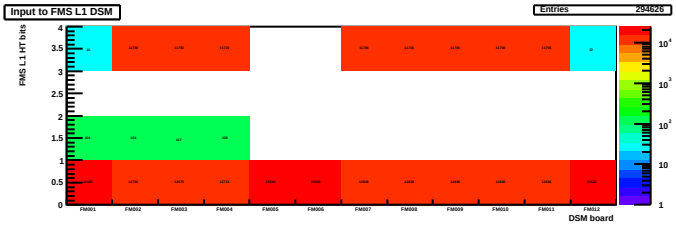

Input to FMS L1 DSM
Entries 13770
sumB - simulated
DSM board

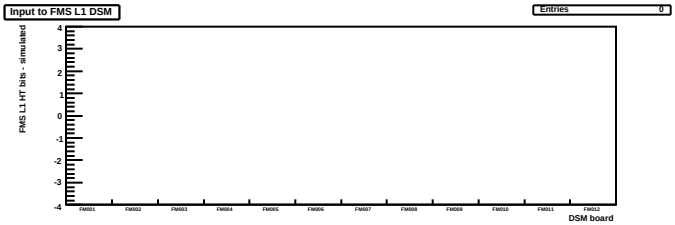

Input to FMS L1 DSM
Entries 294528
sumAB
DSM board

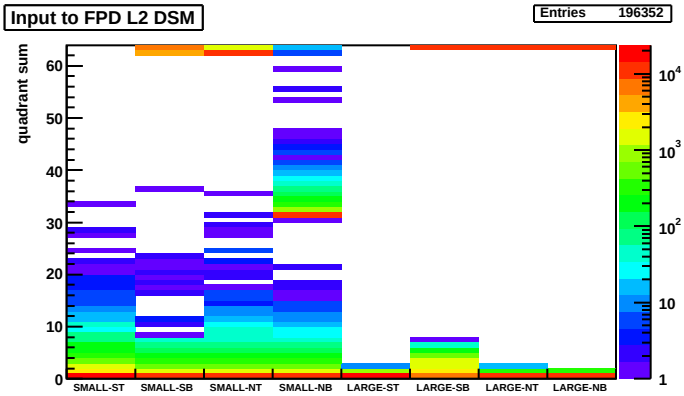

Input to FMS L1 DSM
Entries 10224
sumAB - simulated
DSM board

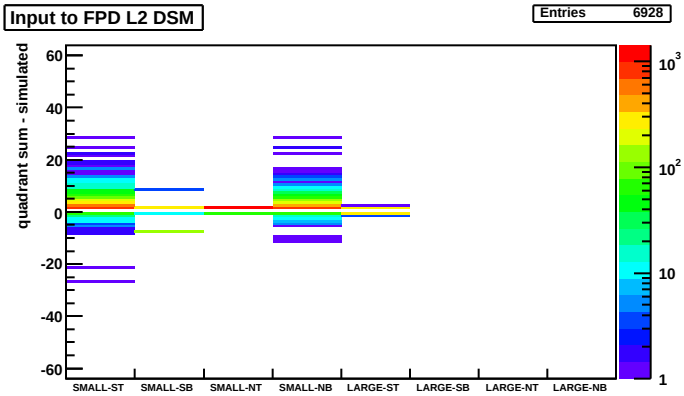

Input to FMS L1 DSM
Entries 294528
sumA
DSM board

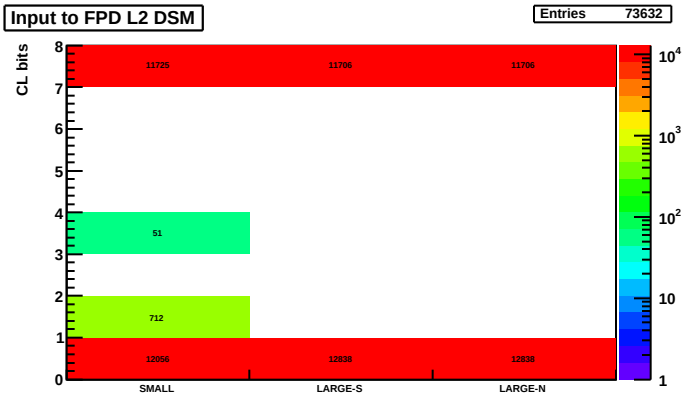

Input to FMS L1 DSM
Entries 2815
sumA - simulated
DSM board

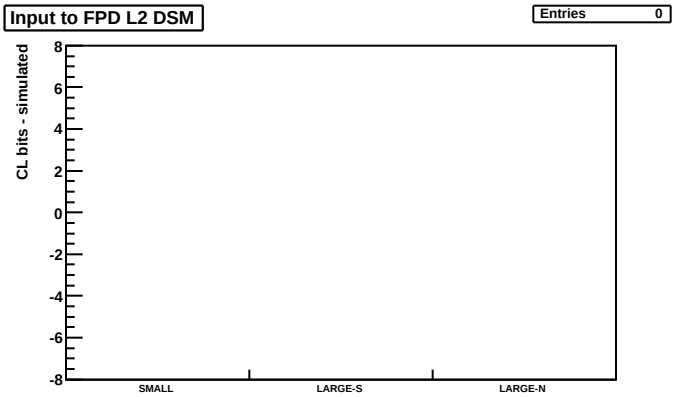

Input to FMS L1 DSM
Entries 294626
FMS L1 HT bits
DSM board

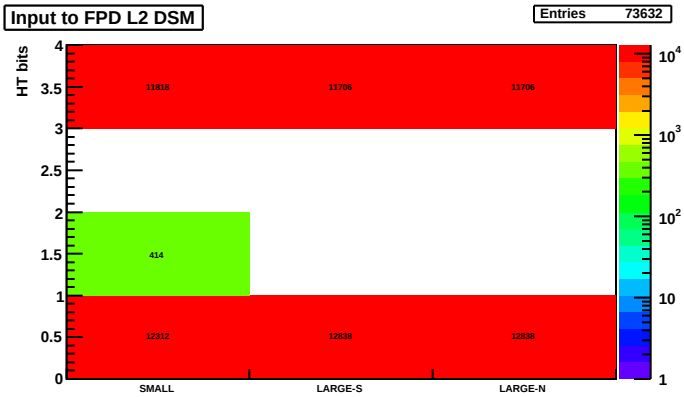

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

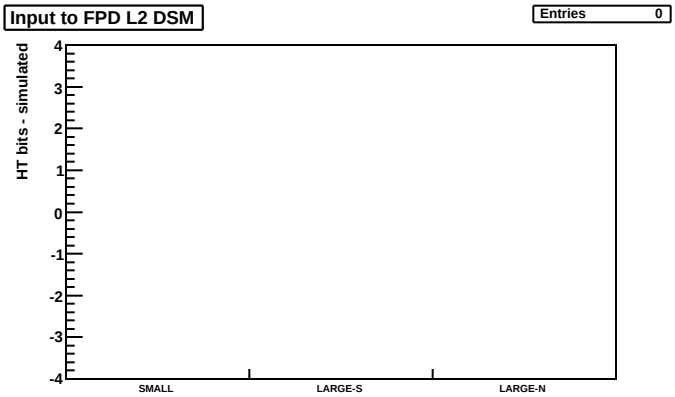

Input to FPD L2 DSM
Entries 196352
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

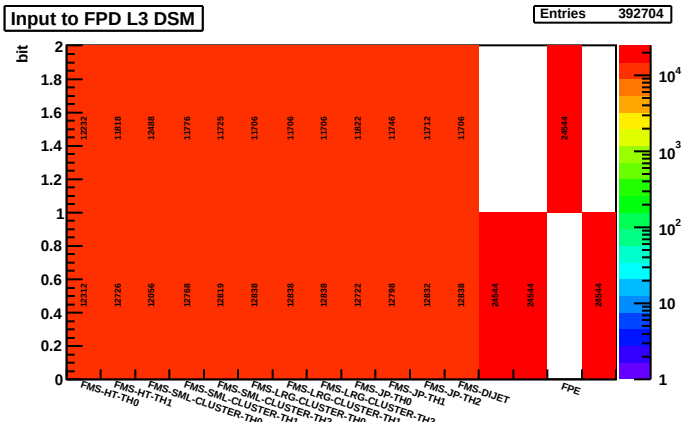

Input to FPD L2 DSM
Entries 6928
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

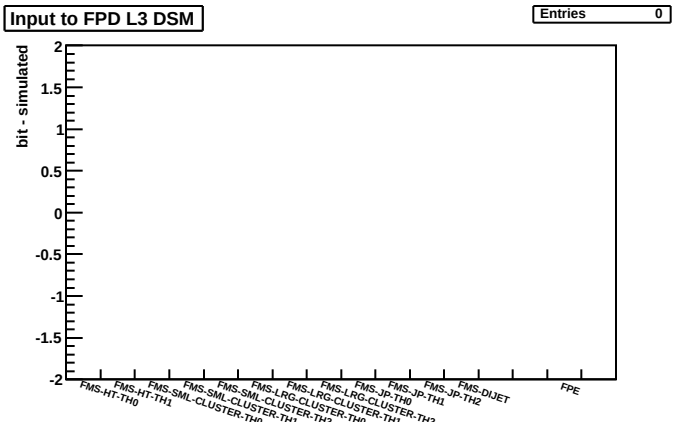

Input to FPD L2 DSM
Entries 73632
CL bits
11725
11706
11706
51
712
12056
12838
12838
SMALL
LARGE-S
LARGE-N

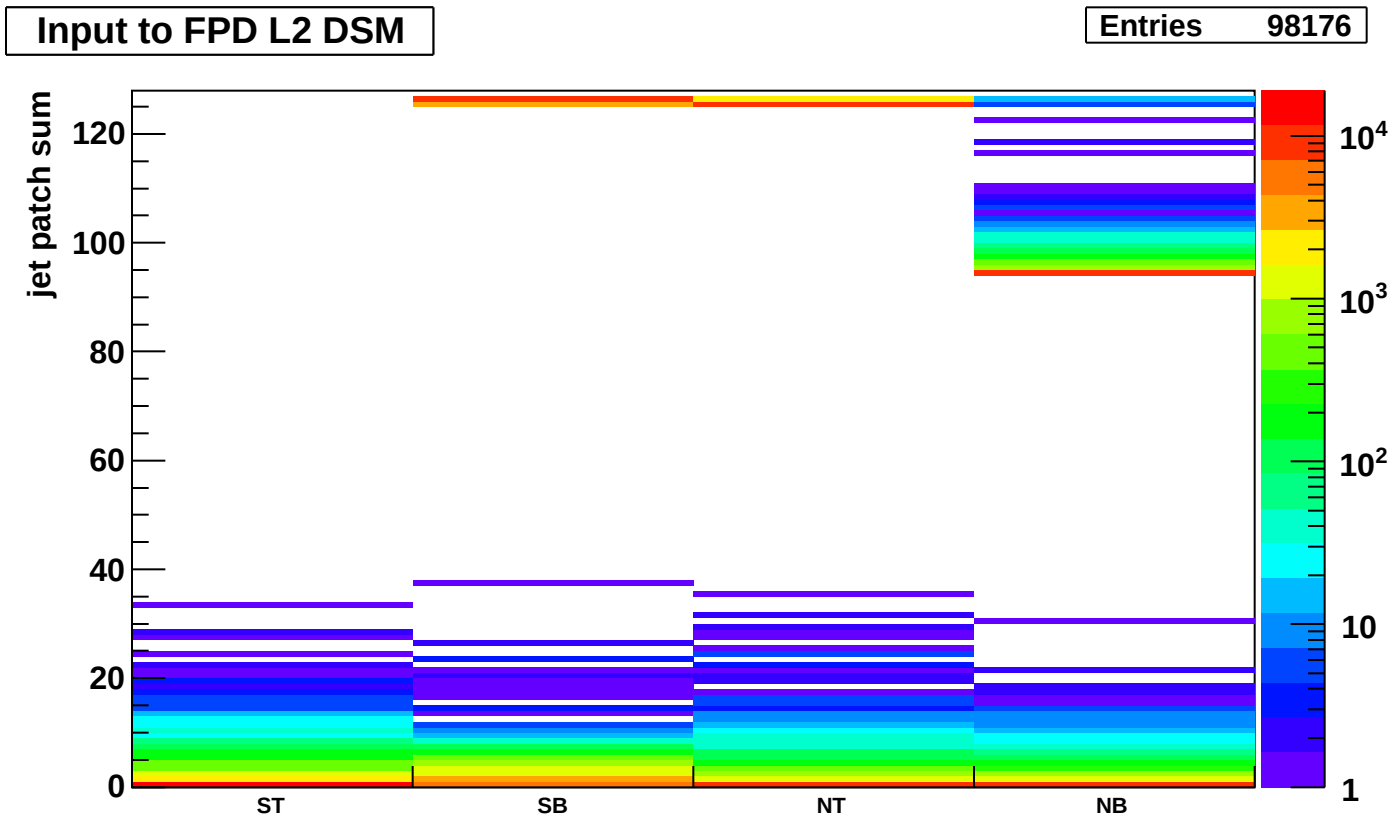

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

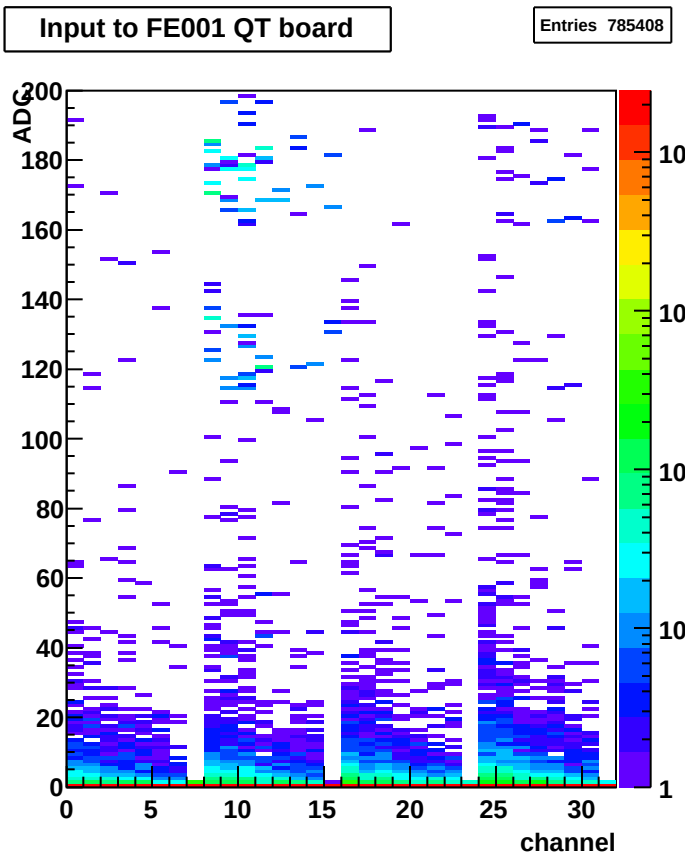

Input to FPD L2 DSM
Entries 73632
HT bits
11818
11706
11706
414
12312
12838
12838
SMALL
LARGE-S
LARGE-N

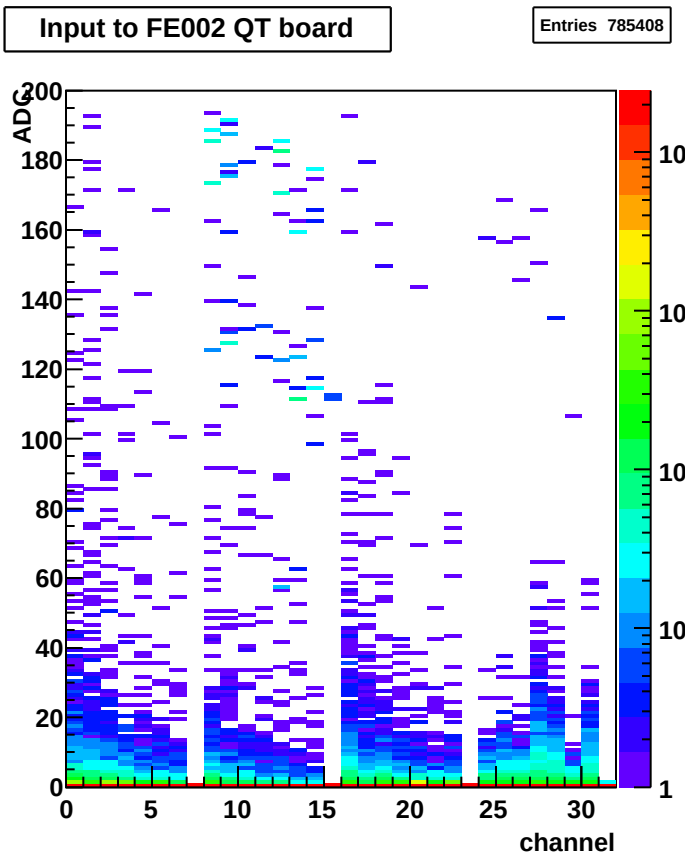

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

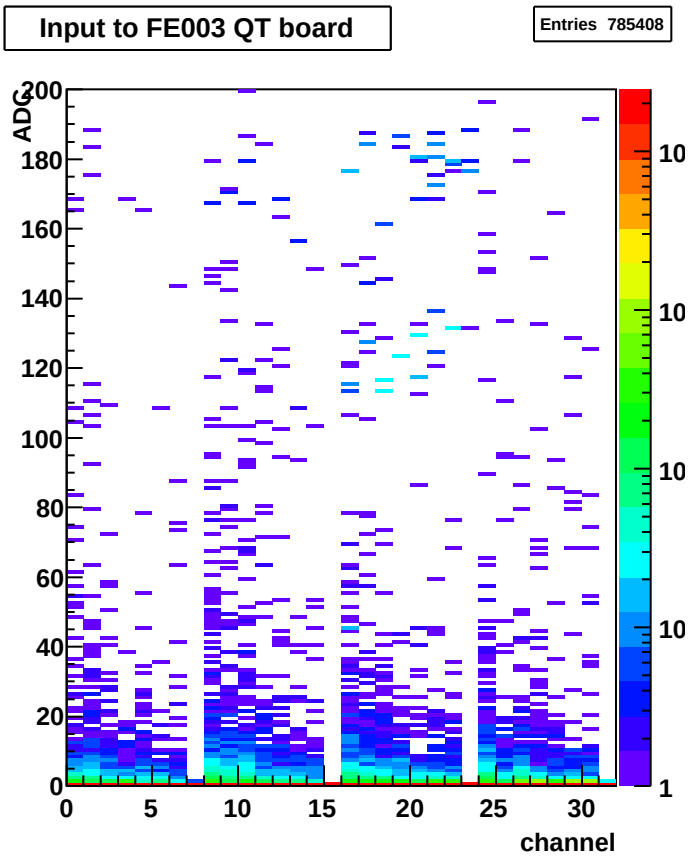

Input to FPD L3 DSM
Entries 392704
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

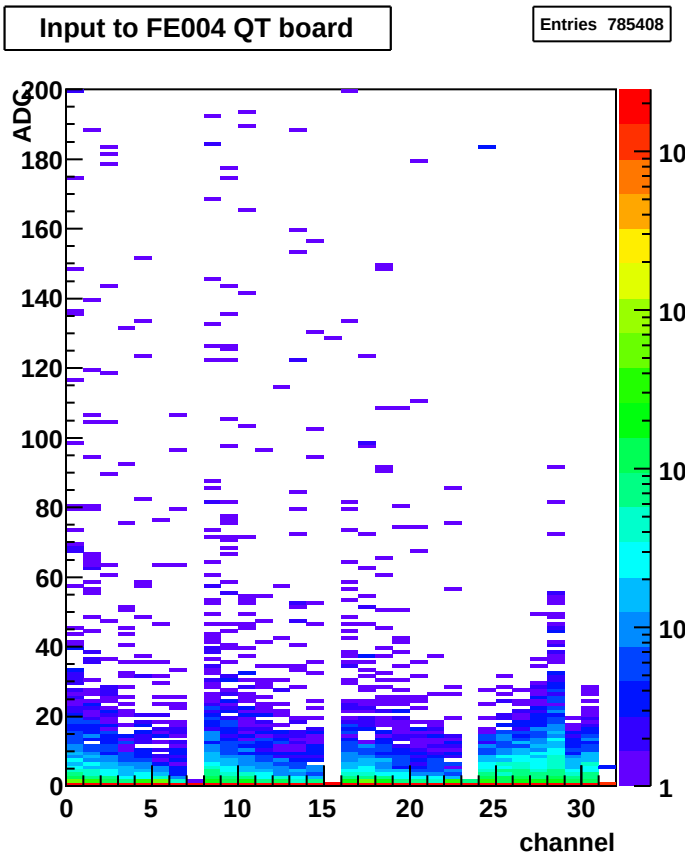

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

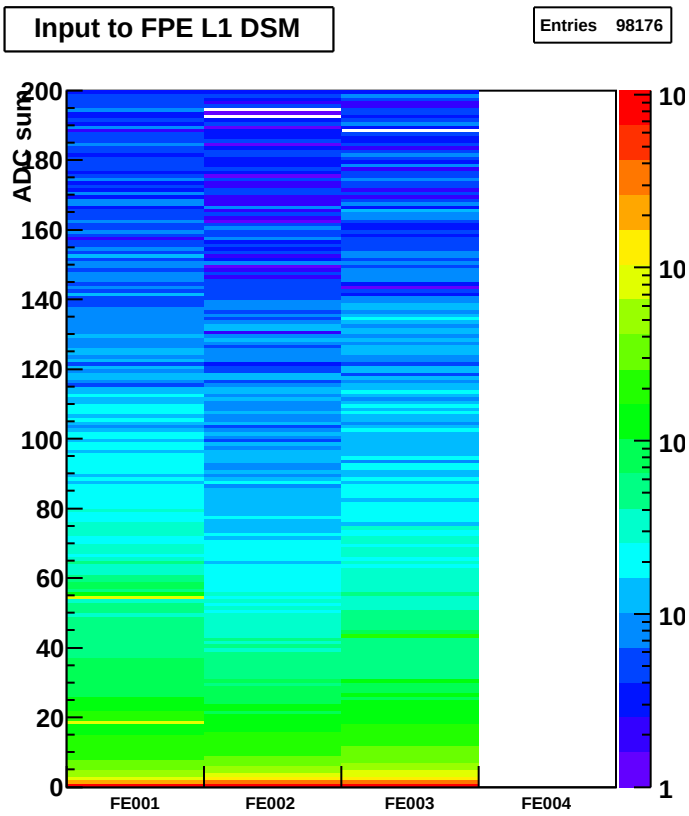

Input to FPD L2 DSM
Entries 98176
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

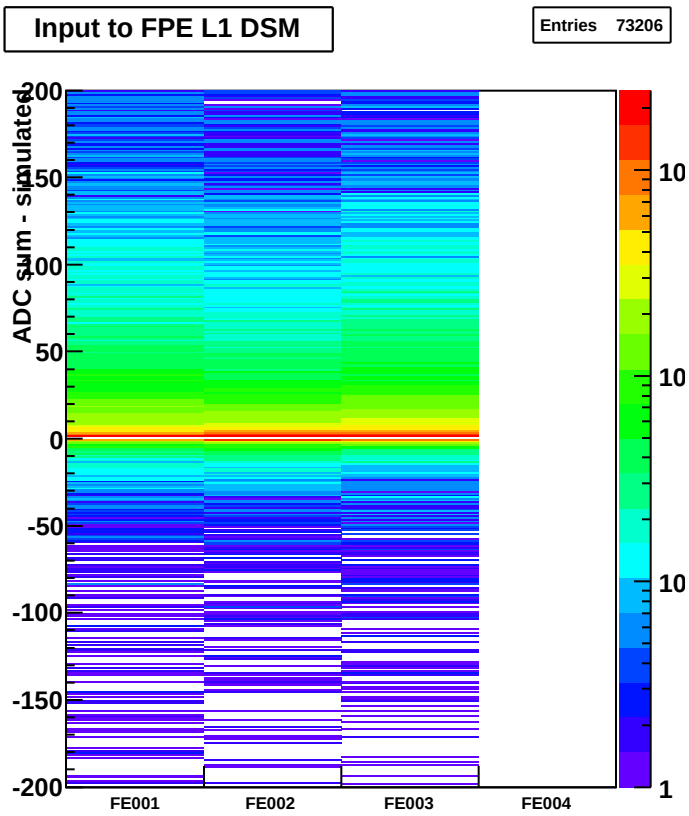

Input to FE001 QT board
Entries 785408
ADC
channel

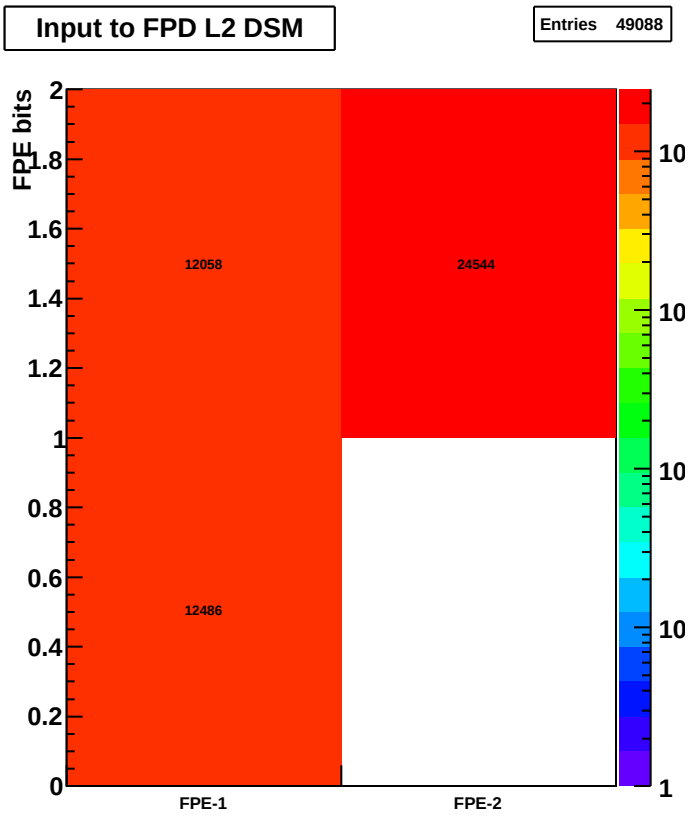

Input to FE002 QT board
Entries 785408
ADC
channel

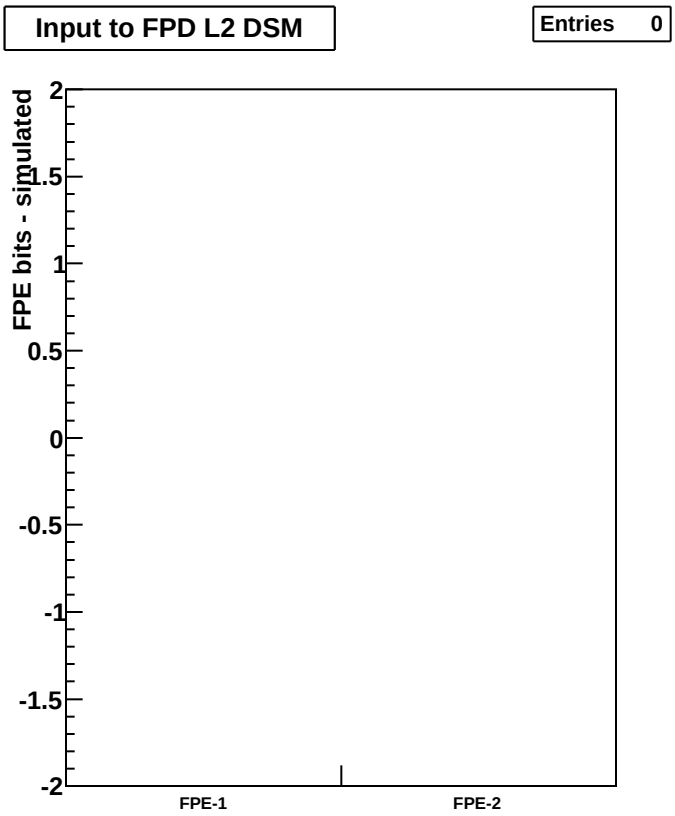

Input to FE003 QT board
Entries 785408
ADC
channel


Input to FE004 QT board
Entries 785408
ADC
channel


Input to FPE L1 DSM
Entries 98176
ADC sum
FE001
FE002
FE003
FE004


Input to FPE L1 DSM
Entries 73206
ADC sum - simulated
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries 49088
FPE bits
12058
24544
12486
FPE-1
FPE-2


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