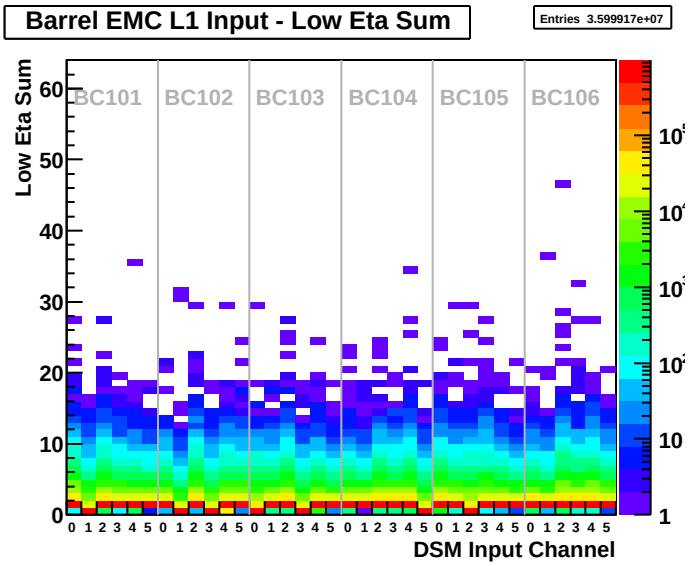
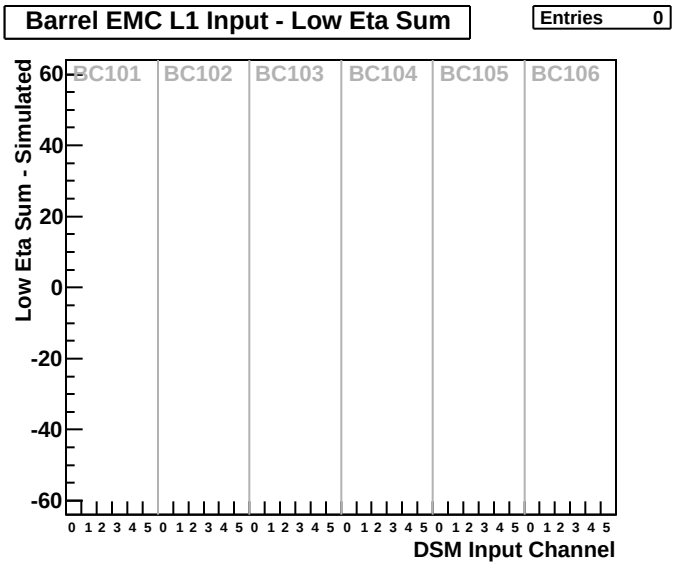
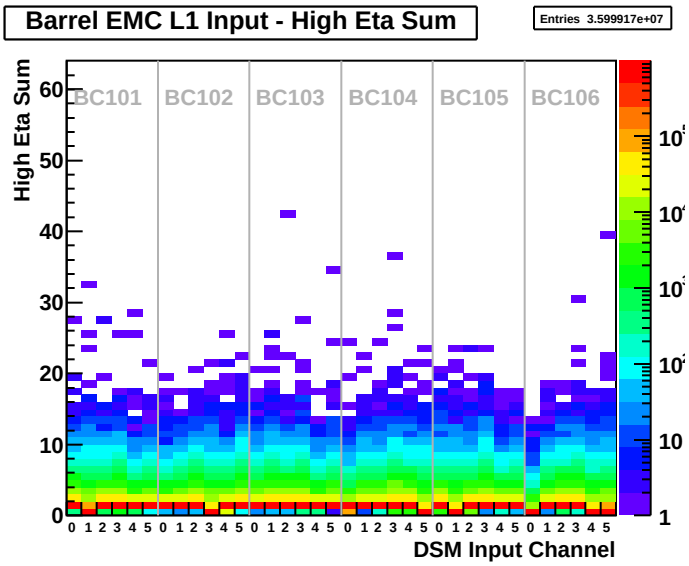
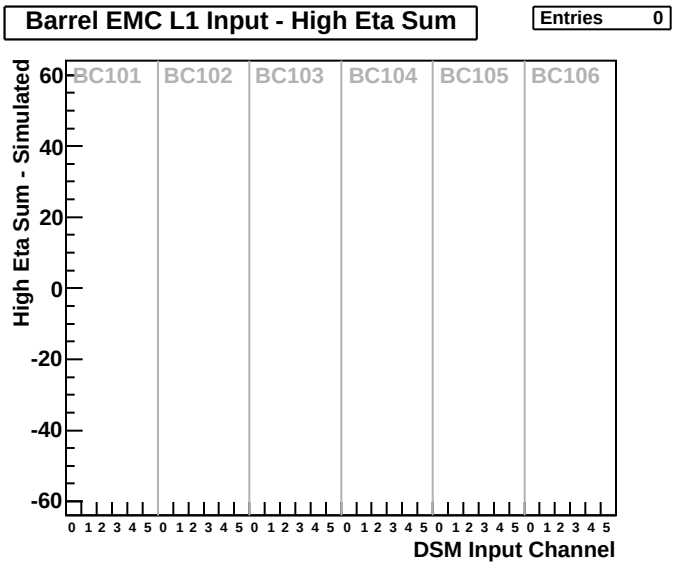
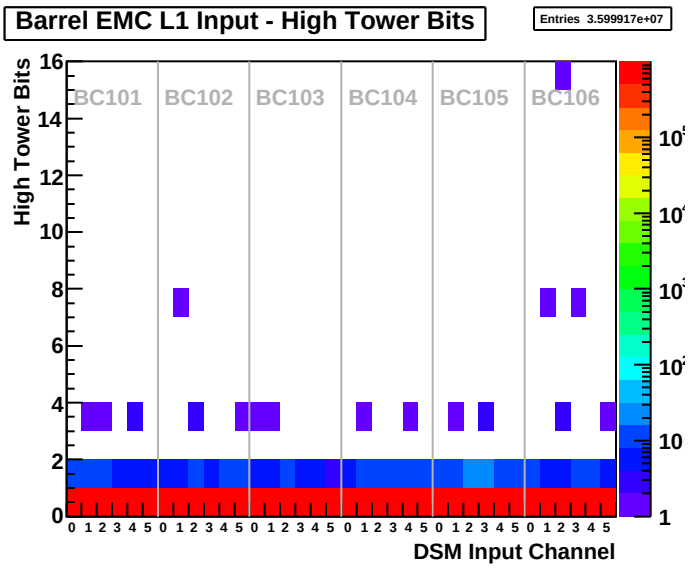
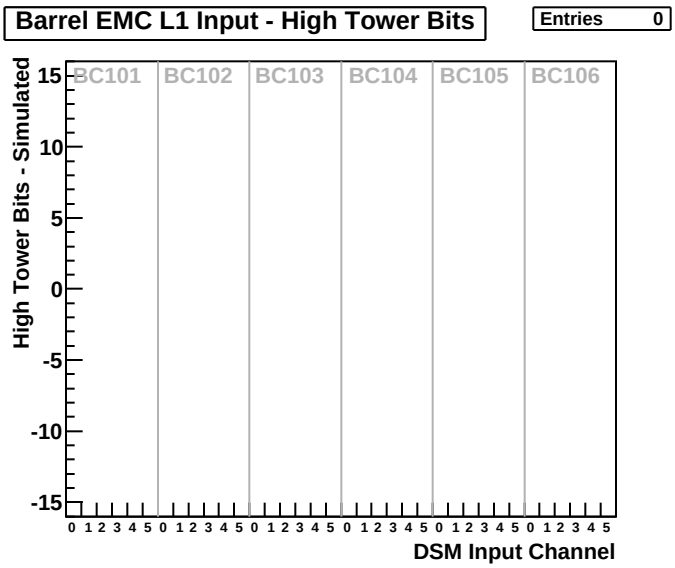

Barrel EMC L1 Input - Low Eta Sum
Entries 3.599917e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

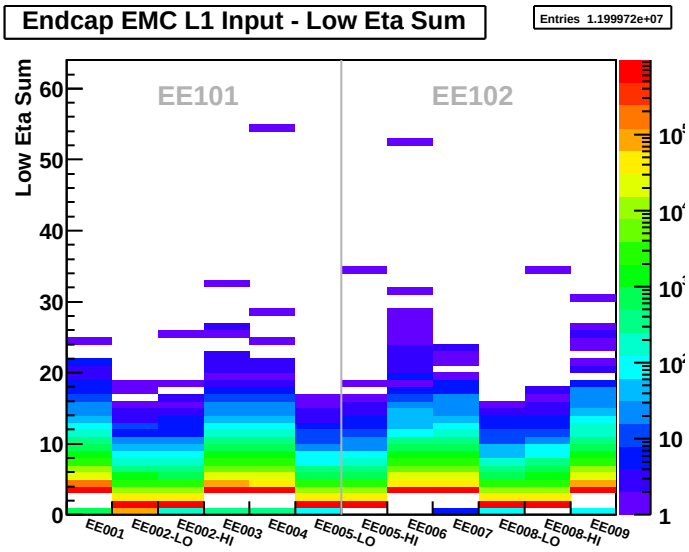

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

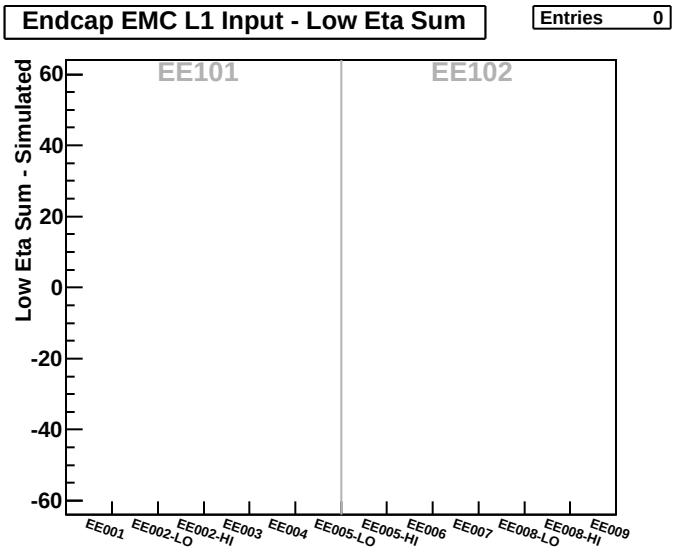

Barrel EMC L1 Input - High Eta Sum
Entries 3.599917e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

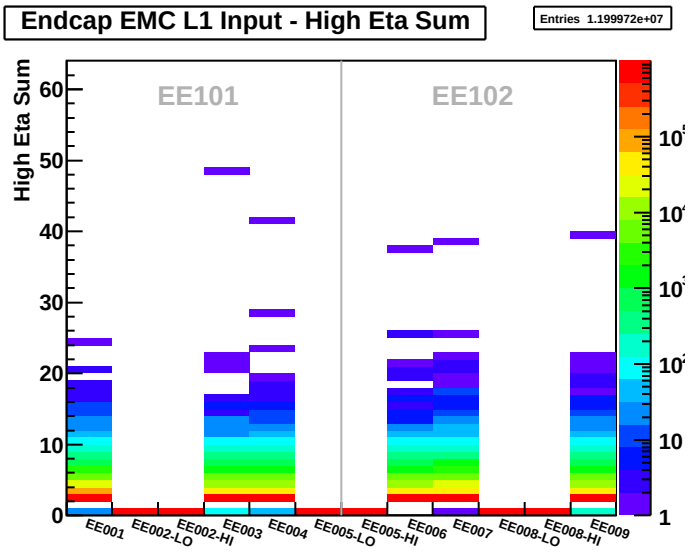

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

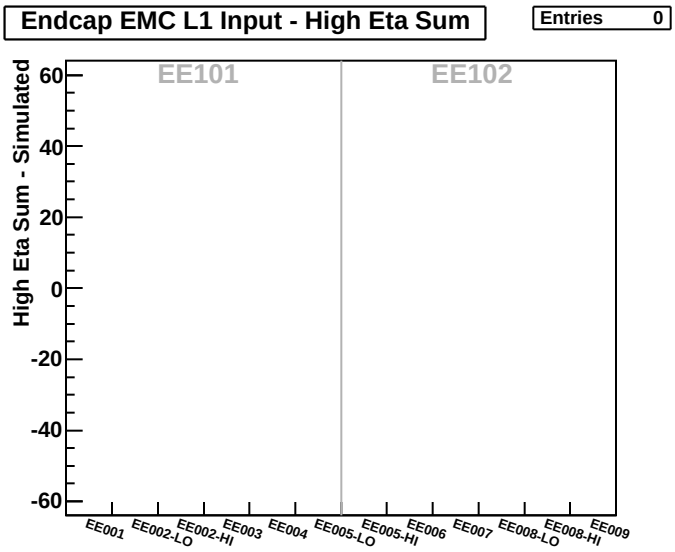

Barrel EMC L1 Input - High Tower Bits
Entries 3.599917e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

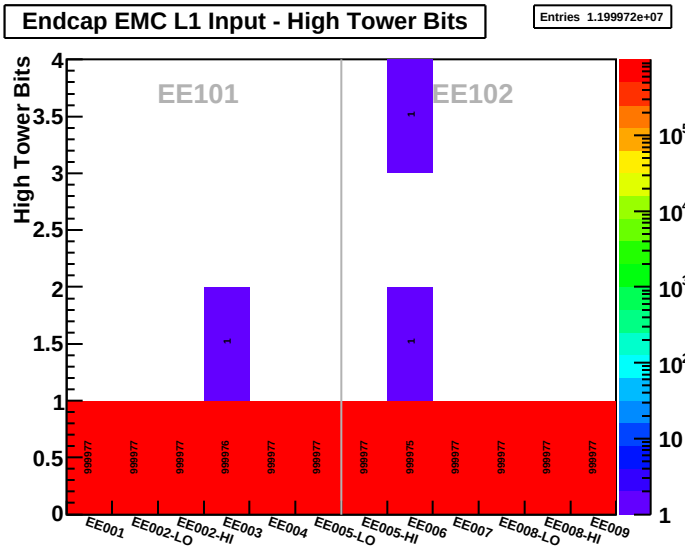

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

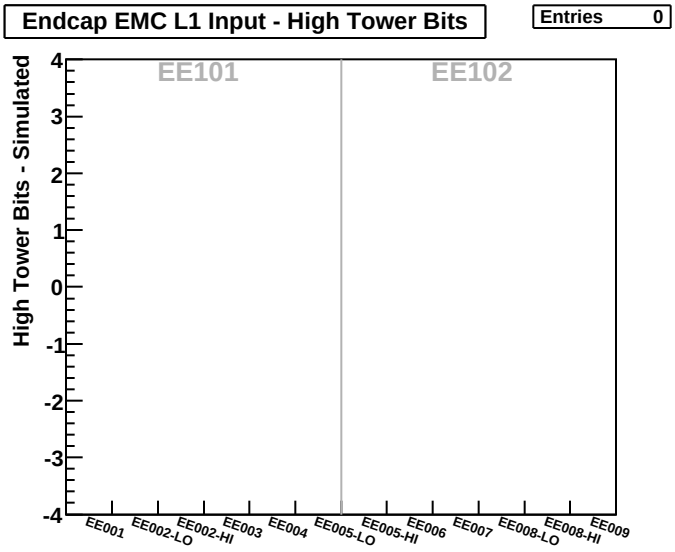

Endcap EMC L1 Input - Low Eta Sum
Entries 1.199972e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

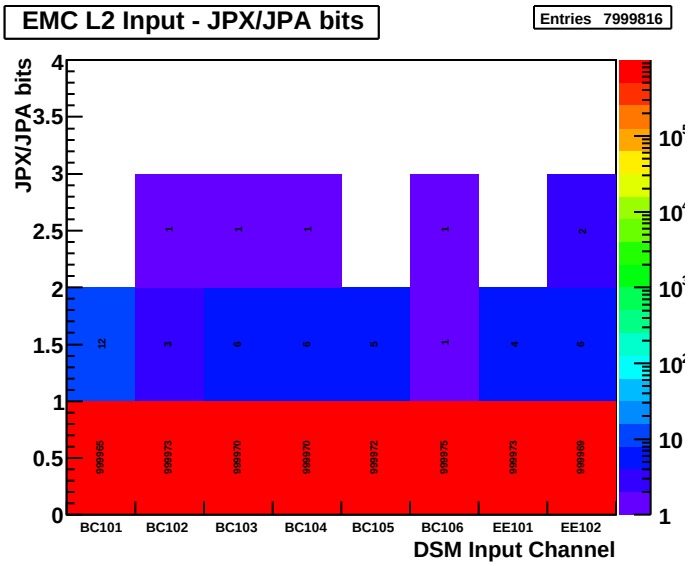

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

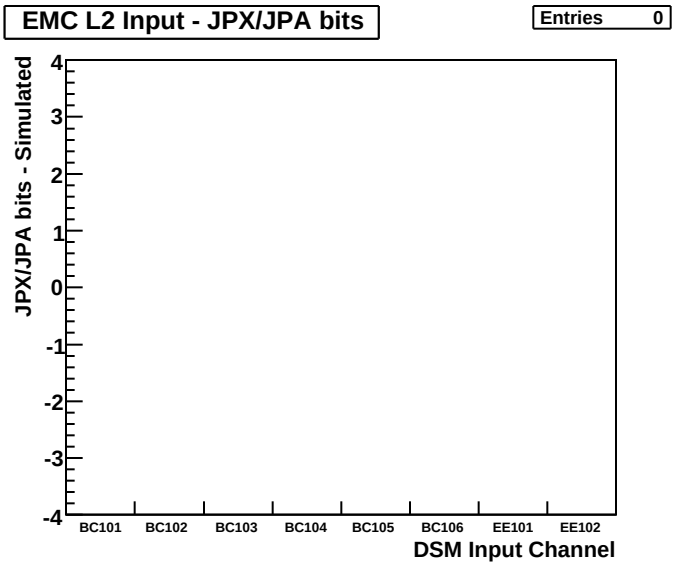

Endcap EMC L1 Input - High Eta Sum
Entries 1.199972e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

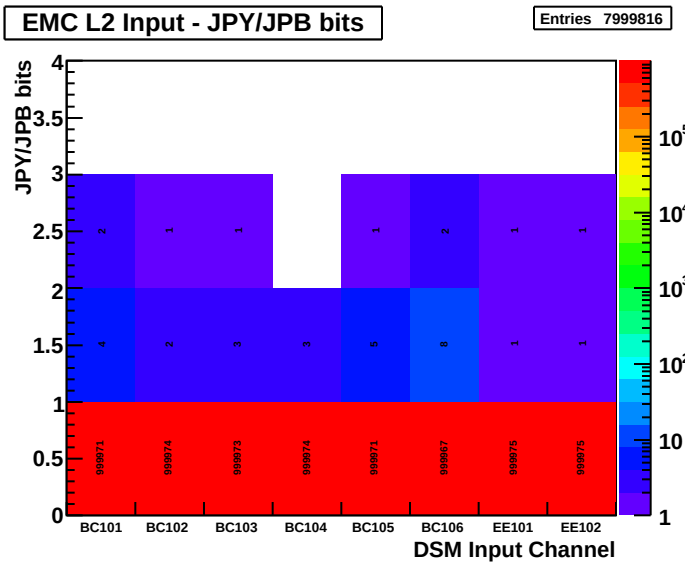

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

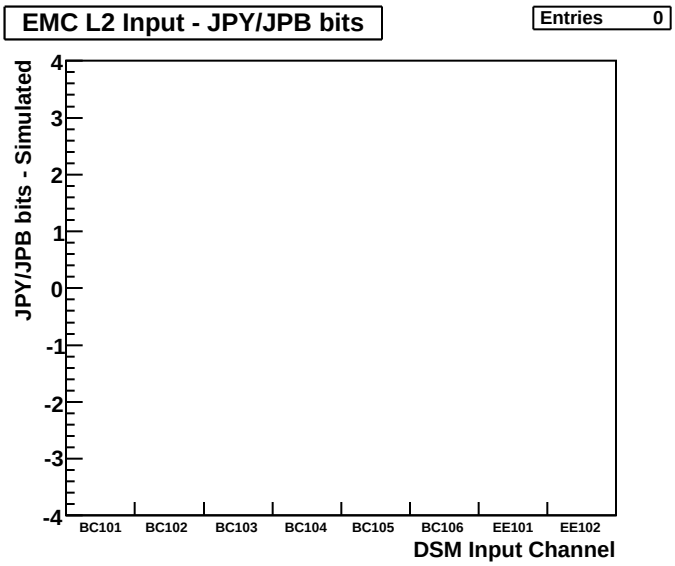

Endcap EMC L1 Input - High Tower Bits
Entries 1.199972e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

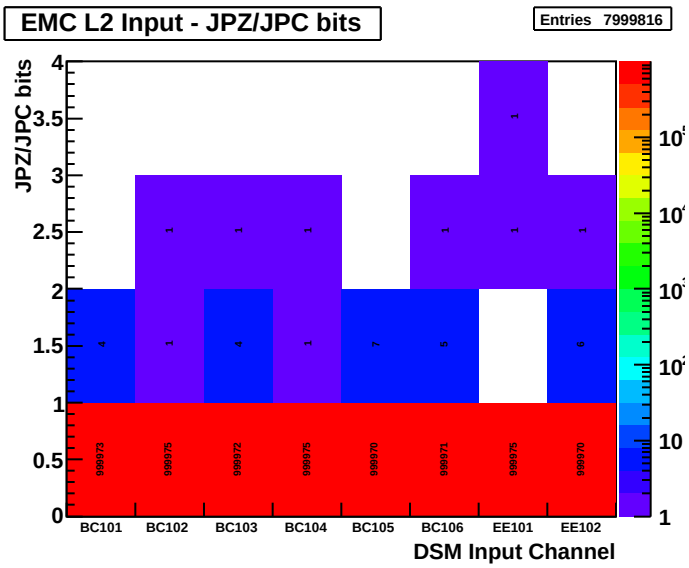

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

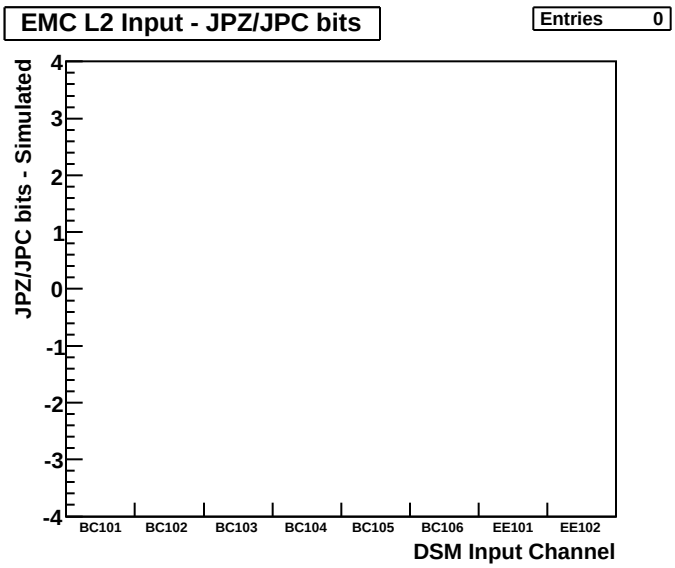

EMC L2 Input - JPX/JPA bits
Entries 7999816
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

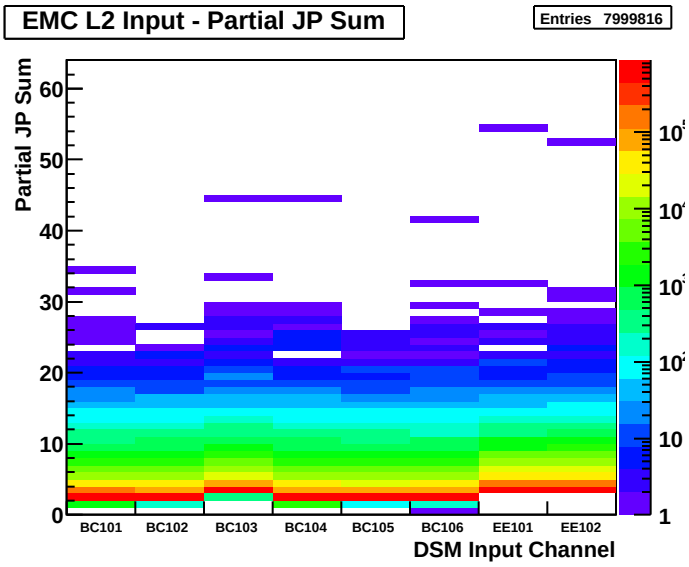

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

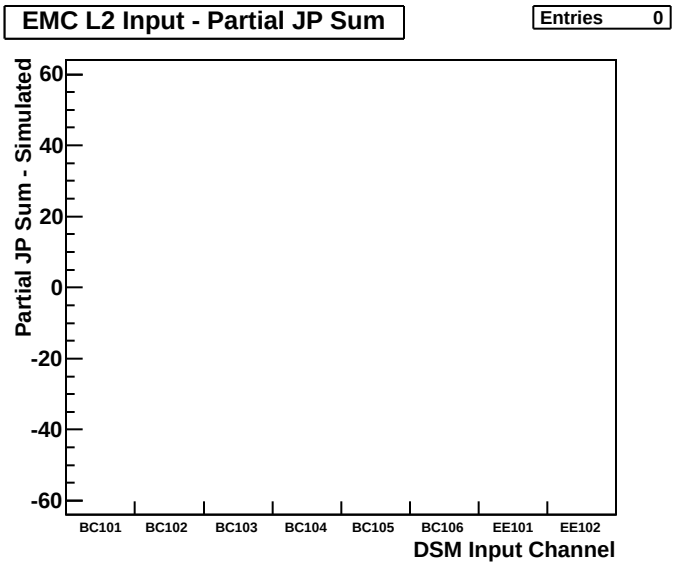

EMC L2 Input - JPY/JPB bits
Entries 7999816
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

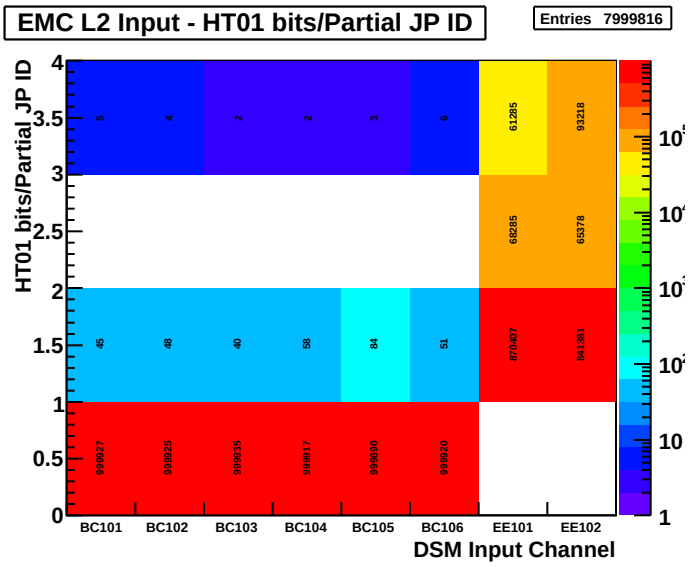

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

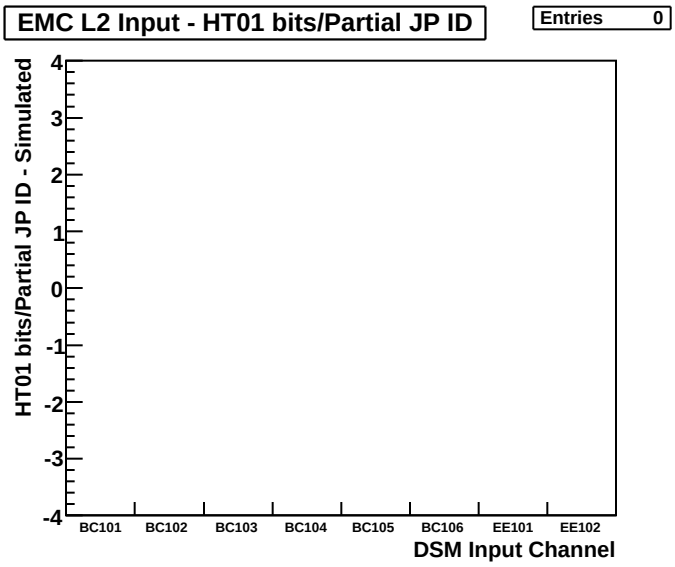

EMC L2 Input - JPZ/JPC bits
Entries 7999816
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

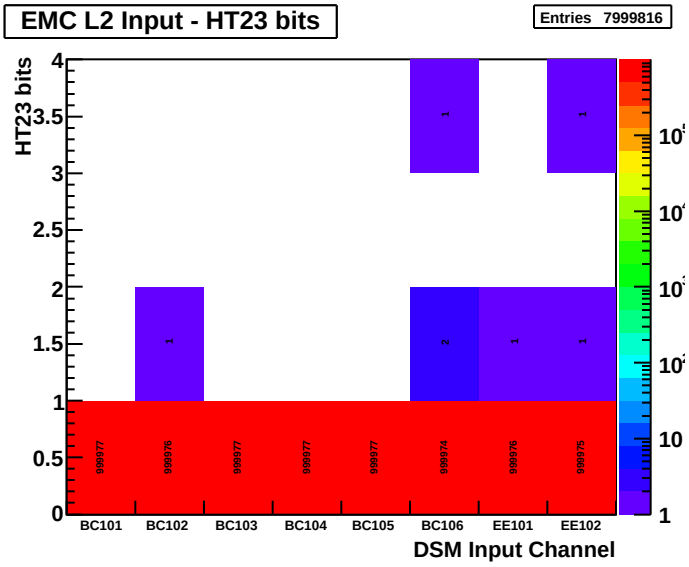

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

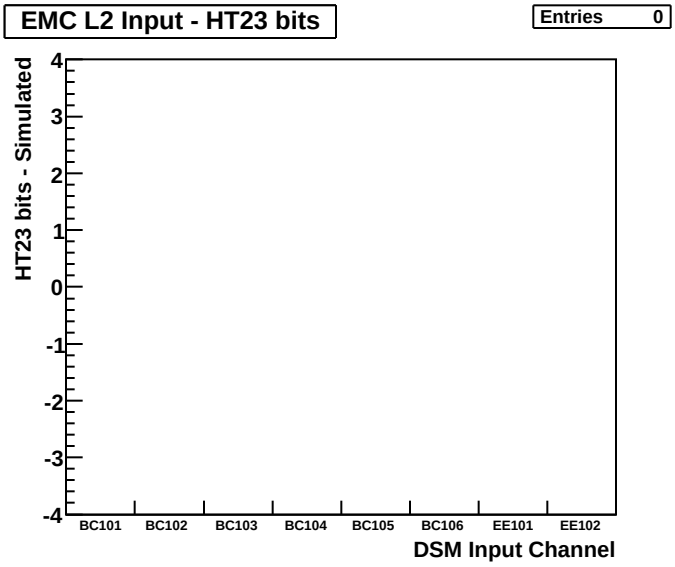

EMC L2 Input - Partial JP Sum
Entries 7999816
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

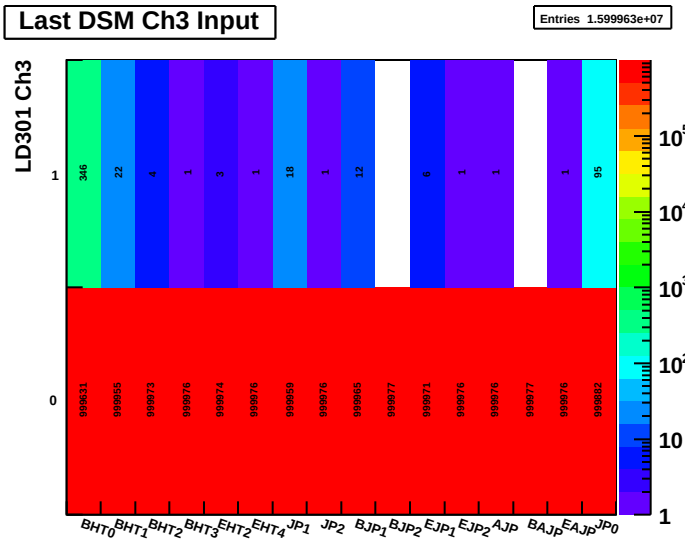

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

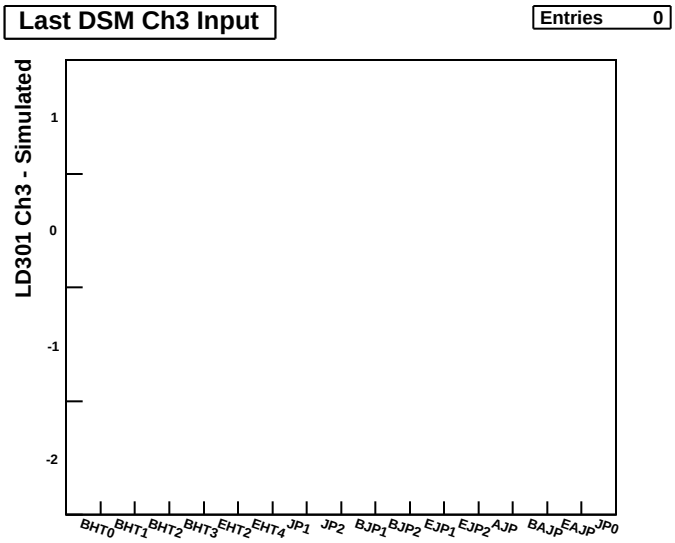

EMC L2 Input - HT01 bits/Partial JP ID
Entries 7999816
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

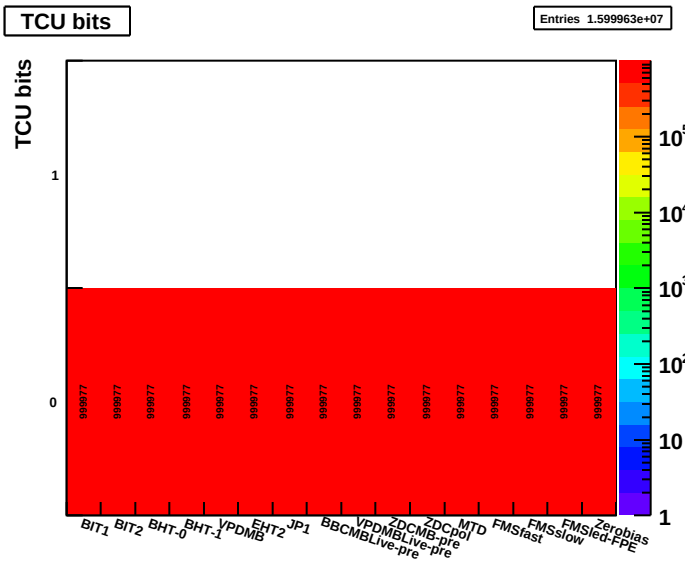

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

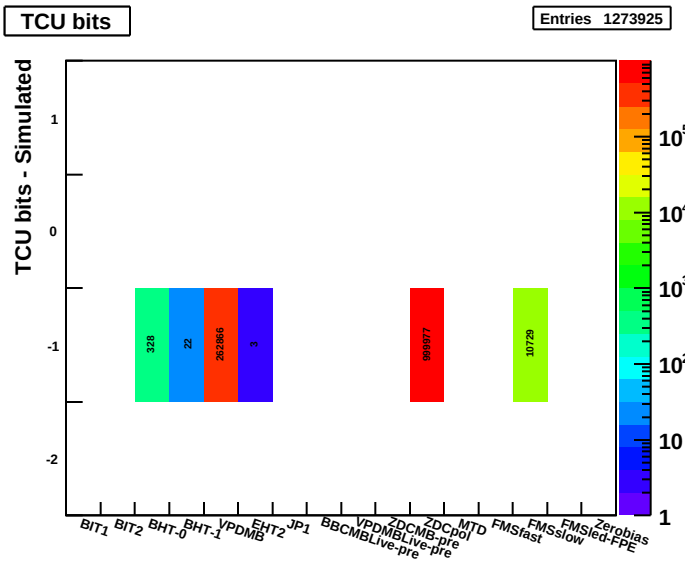

EMC L2 Input - HT23 bits
Entries 7999816
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

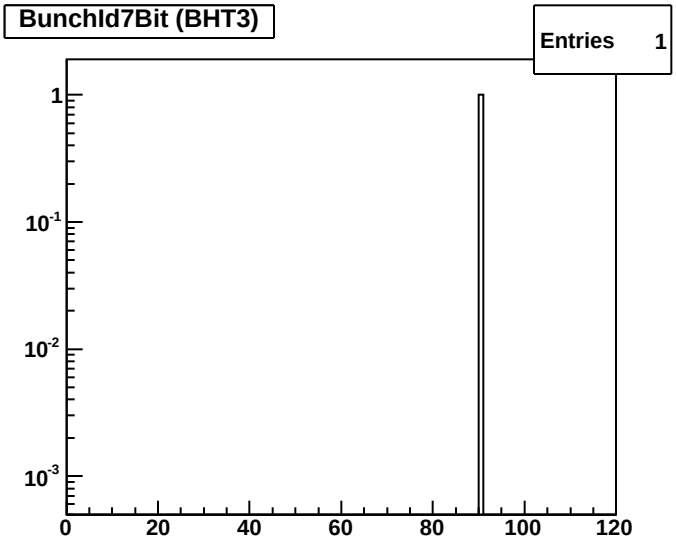

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

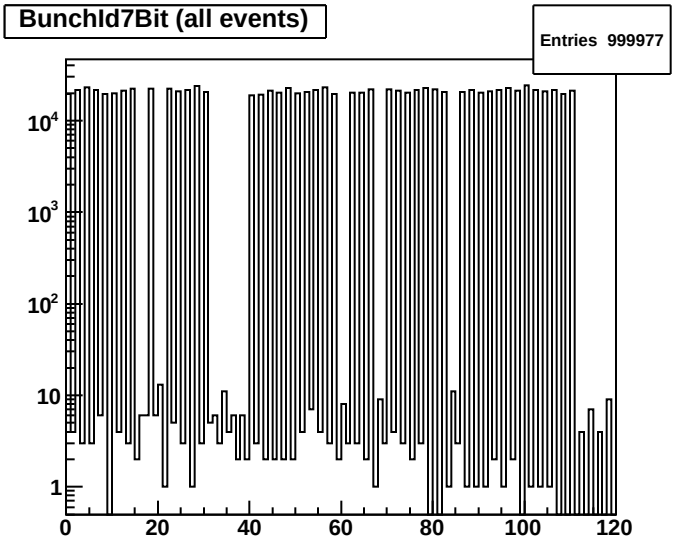

Last DSM Ch3 Input
Entries 1.599963e+07
LD301 Ch3
346 22 4 1 3 1 18 1 12 6 1 1 1 95
999631 999955 999973 999976 999974 999976 999959 999976 999965 999977 999971 999976 999976 999977 999976 999982
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

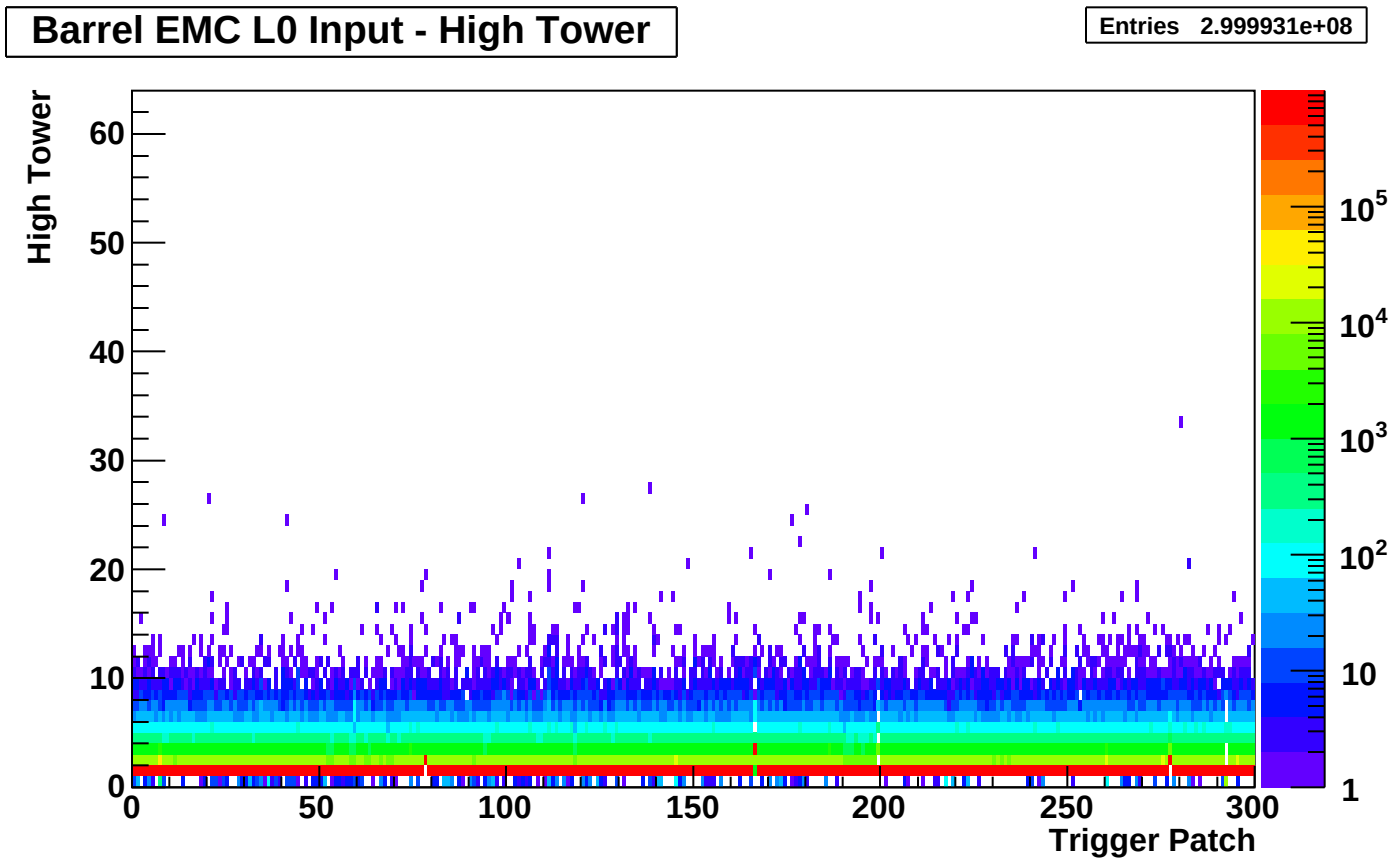

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

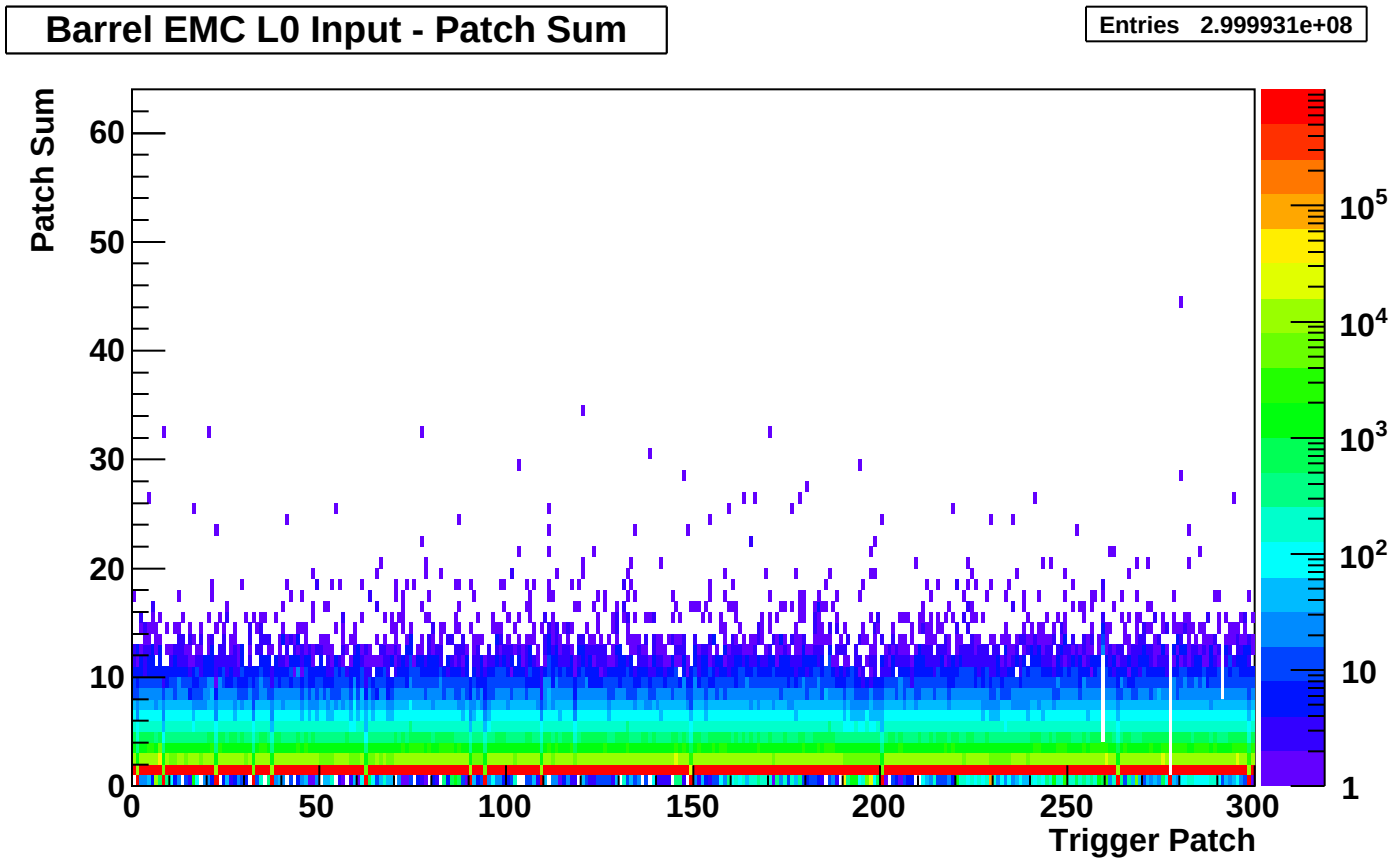

TCU bits
Entries 1.599963e+07
TCU bits
999977 999977 999977 999977 999977 999977 999977 999977 999977 999977 999977 999977 999977 999977 999977 999977
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

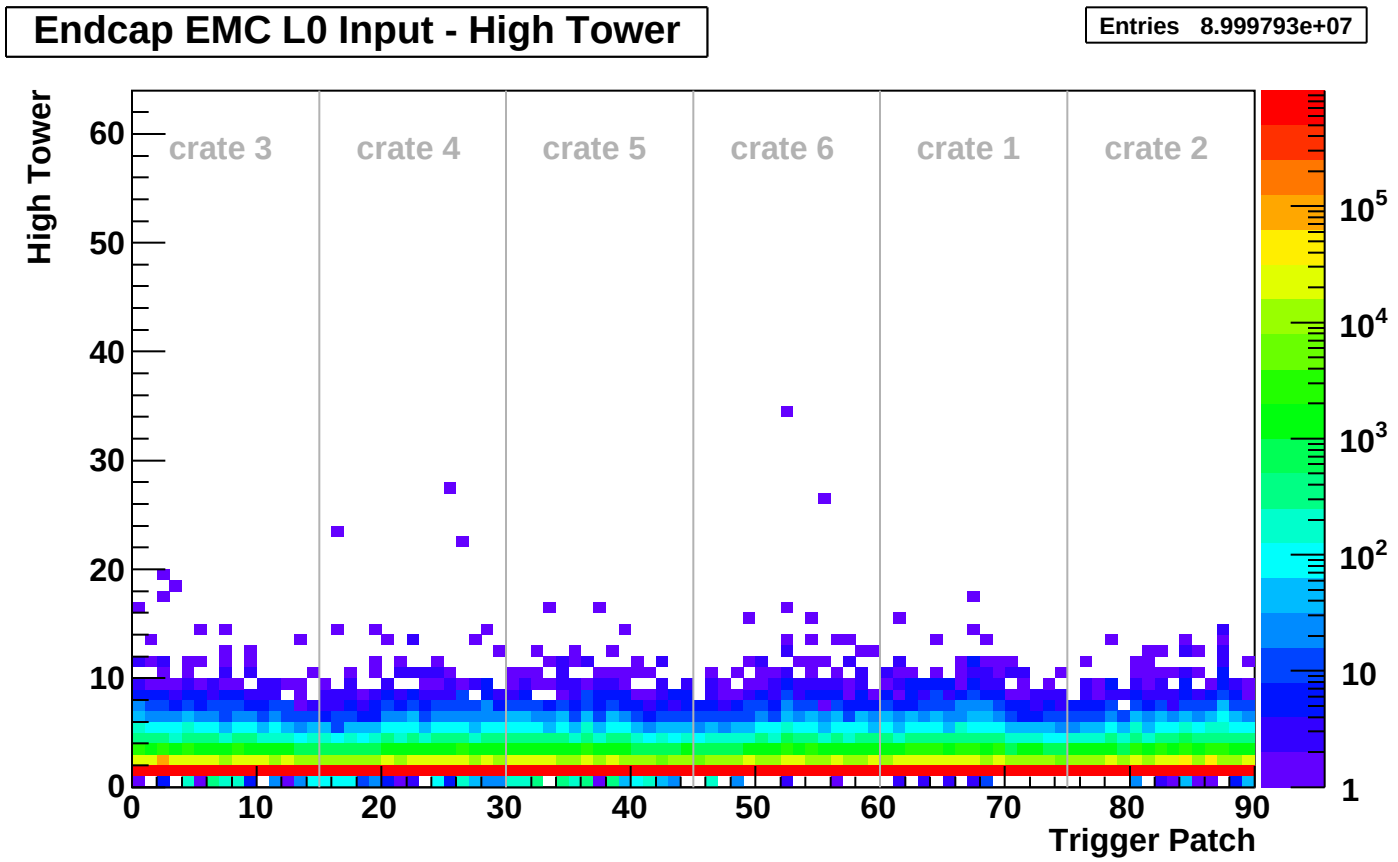

TCU bits
Entries 1273925
TCU bits - Simulated
328 22 262866 3 999977 10729
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

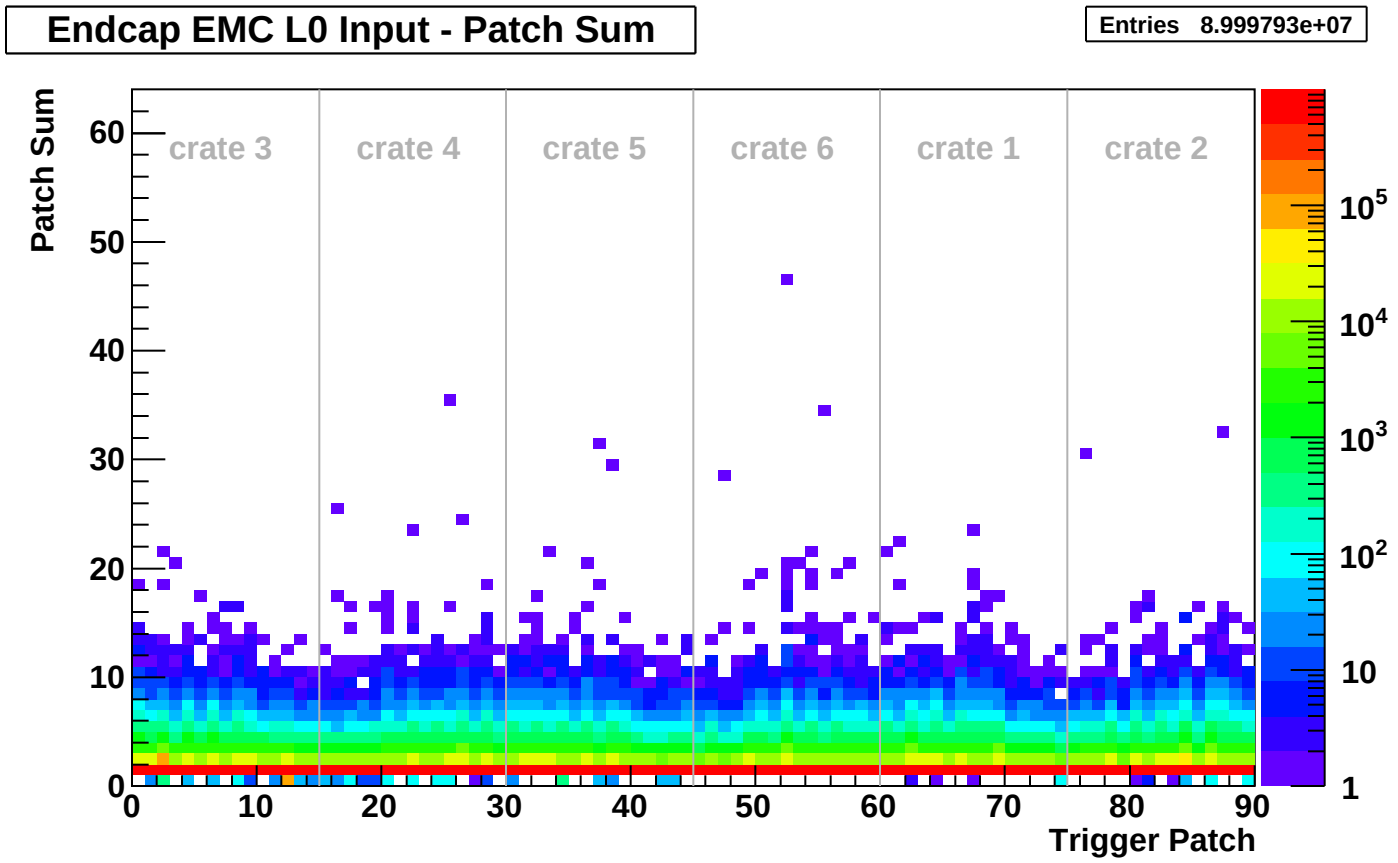

BunchId7Bit (BHT3)
Entries 1

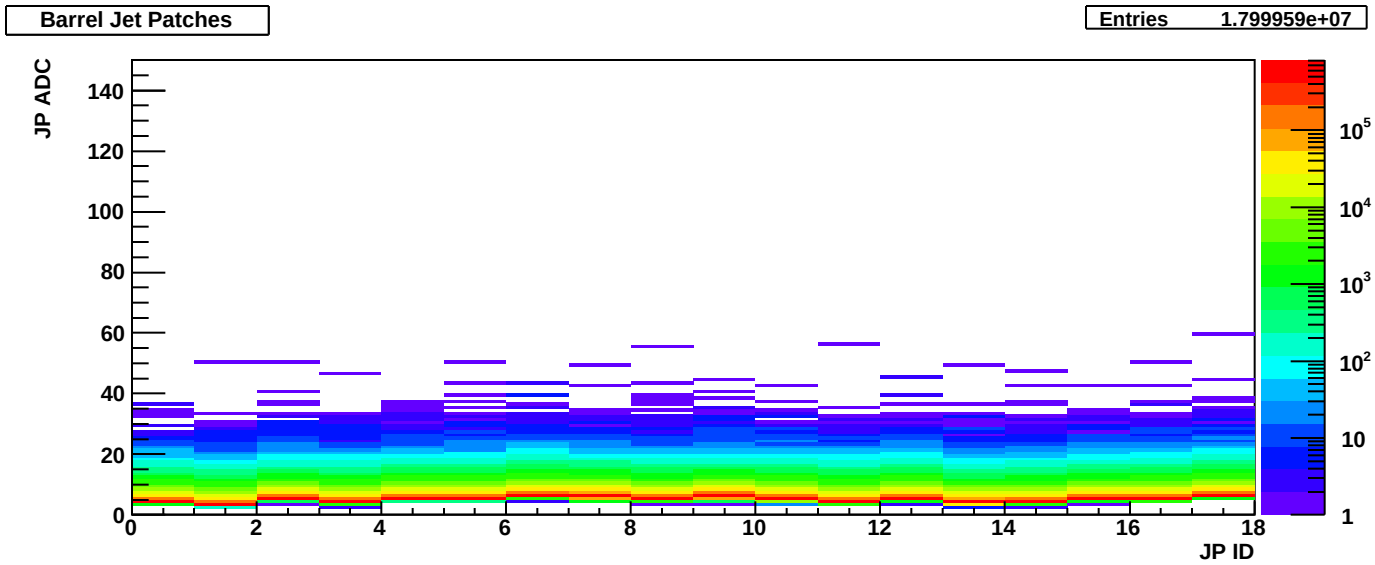

BunchId7Bit (all events)
Entries 999977

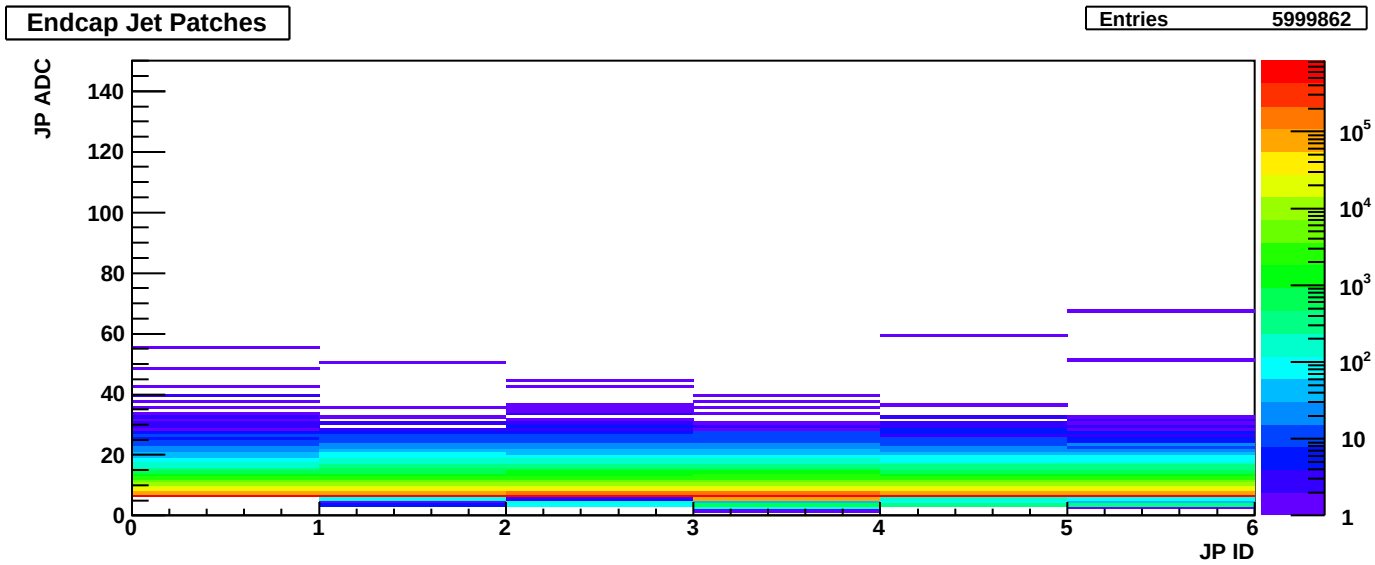

Barrel EMC L0 Input - High Tower
Entries 2.999931e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

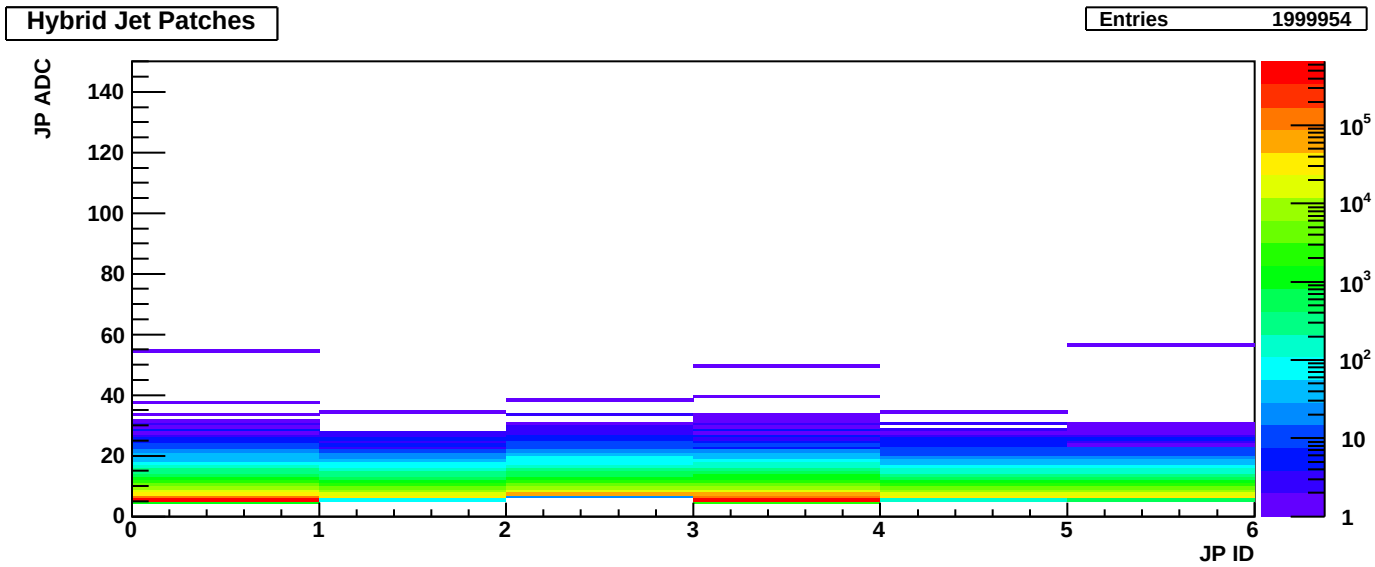

Barrel EMC L0 Input - Patch Sum
Entries 2.999931e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

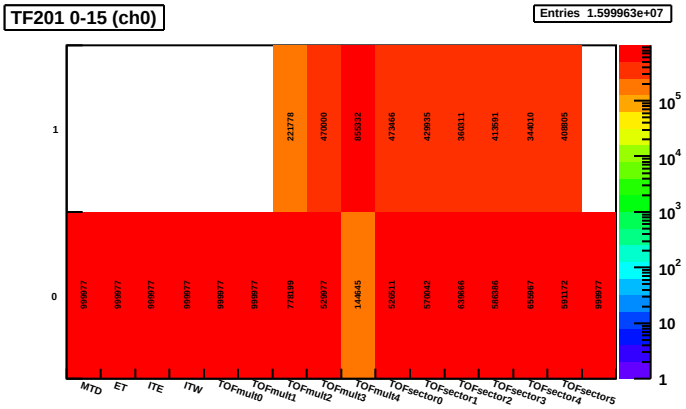

Endcap EMC L0 Input - High Tower
Entries 8.999793e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3
10^4
10^5

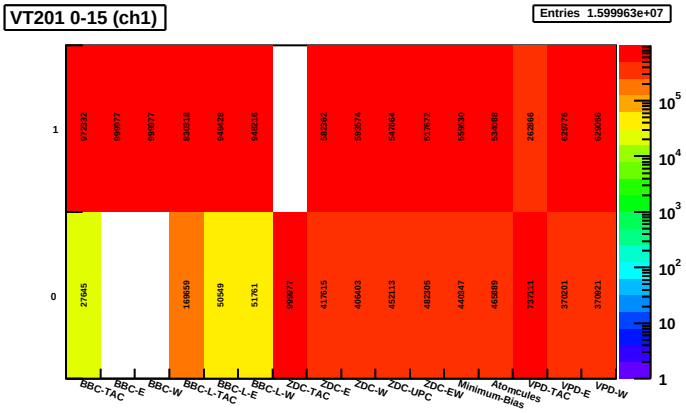

Endcap EMC L0 Input - Patch Sum
Entries 8.999793e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3
10^4
10^5

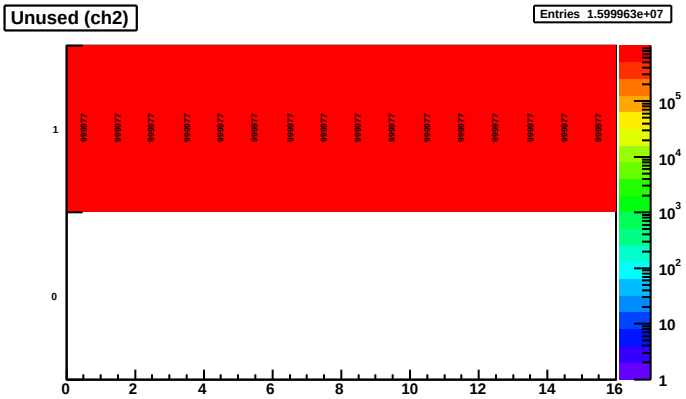

Barrel Jet Patches
Entries 1.799959e+07
JP ADC
JP ID

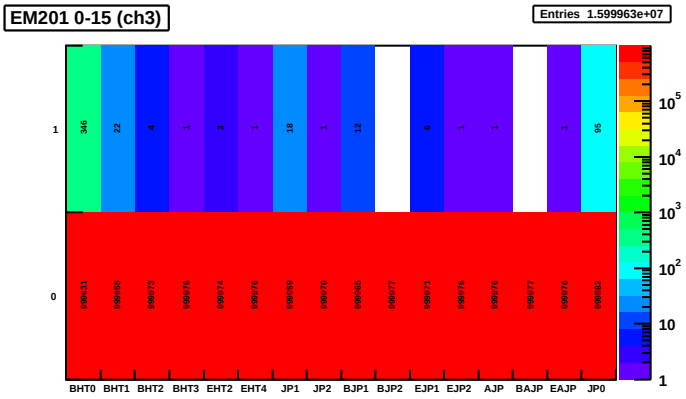

Endcap Jet Patches
Entries 5999862
JP ADC
JP ID

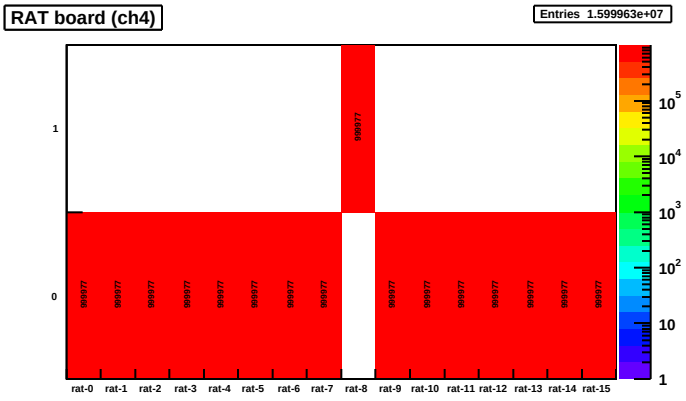

Hybrid Jet Patches
Entries 1999954
JP ADC
JP ID

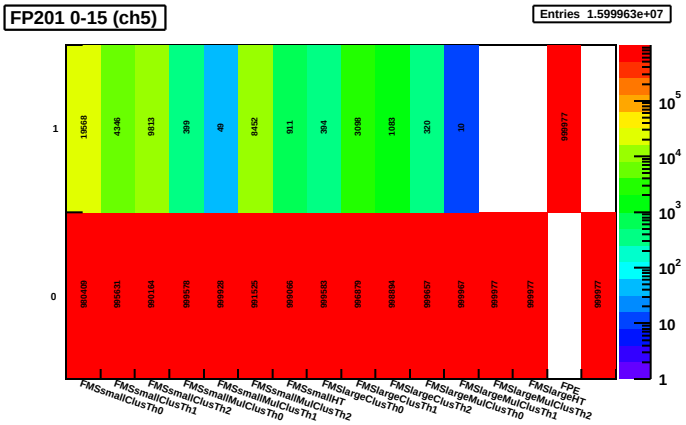

TF201 0-15 (ch0)
Entries 1.599963e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

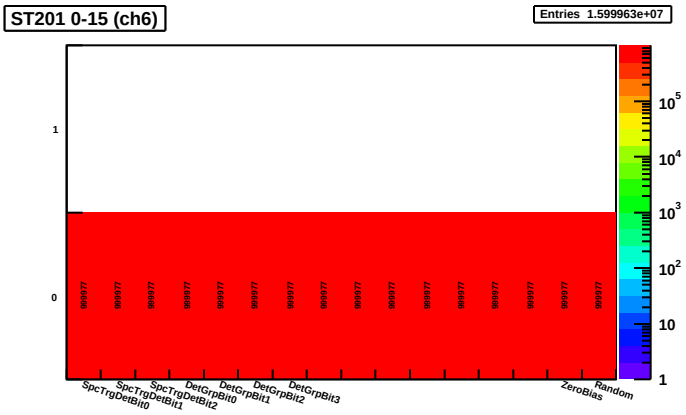

VT201 0-15 (ch1)
Entries 1.599963e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

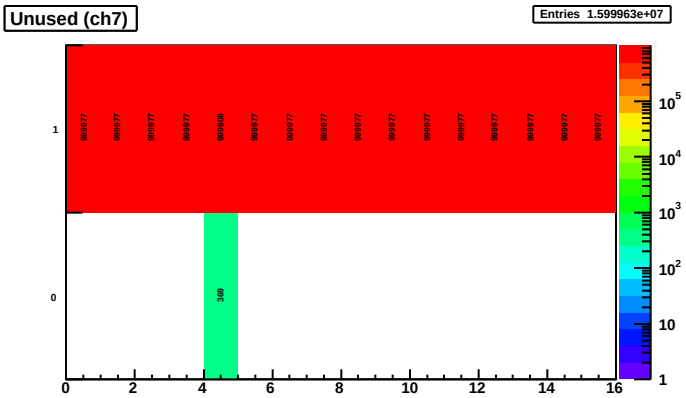

Unused (ch2)
Entries 1.599963e+07

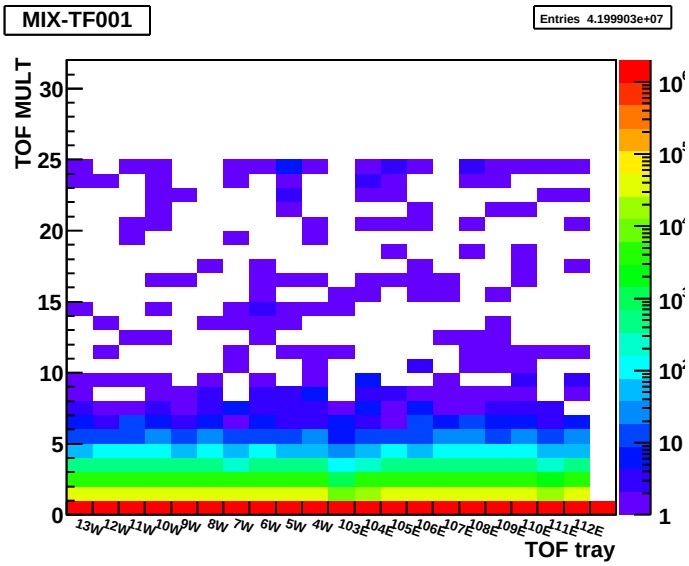

EM201 0-15 (ch3)
Entries 1.599963e+07
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

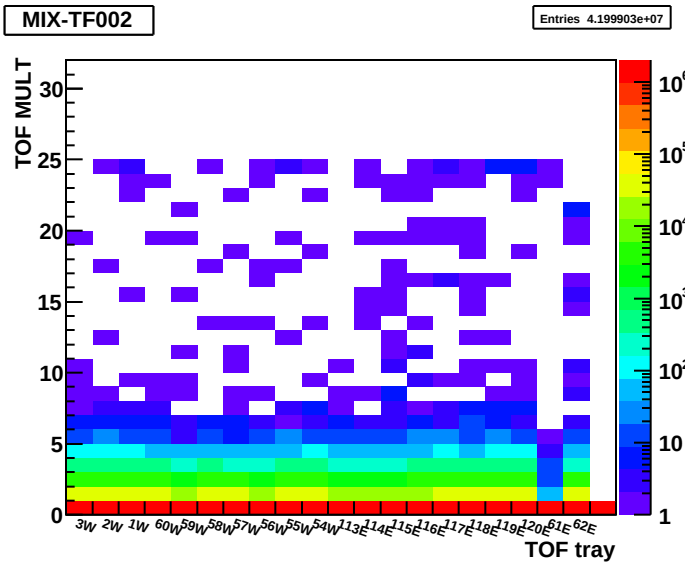

RAT board (ch4)
Entries 1.599963e+07
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

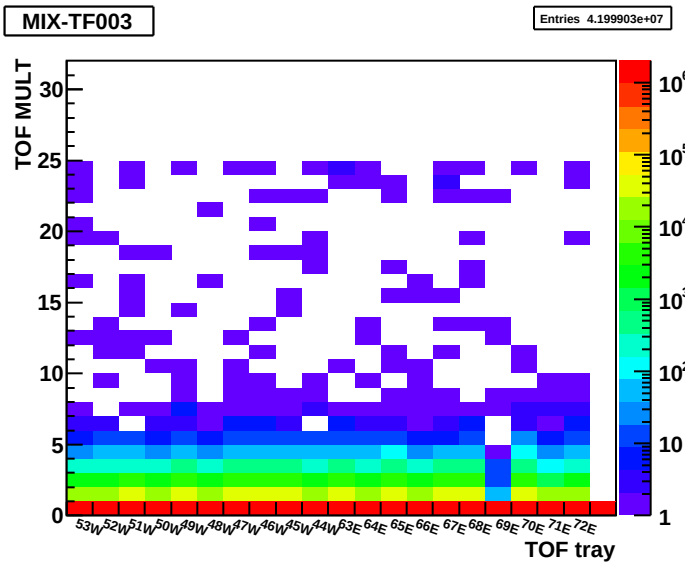

FP201 0-15 (ch5)
Entries 1.599963e+07
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

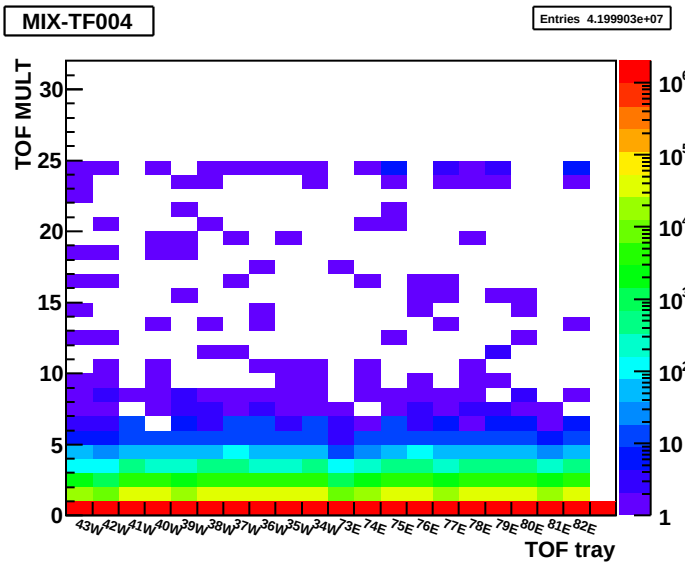

ST201 0-15 (ch6)
Entries 1.599963e+07
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

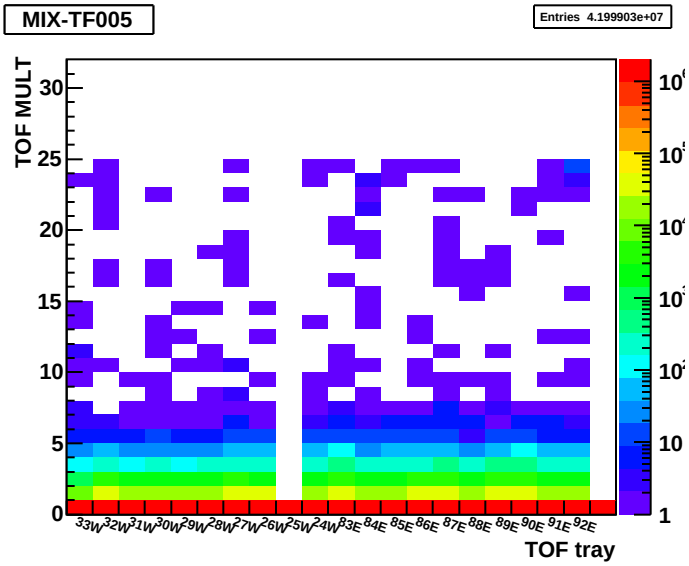

Unused (ch7)
Entries 1.599963e+07

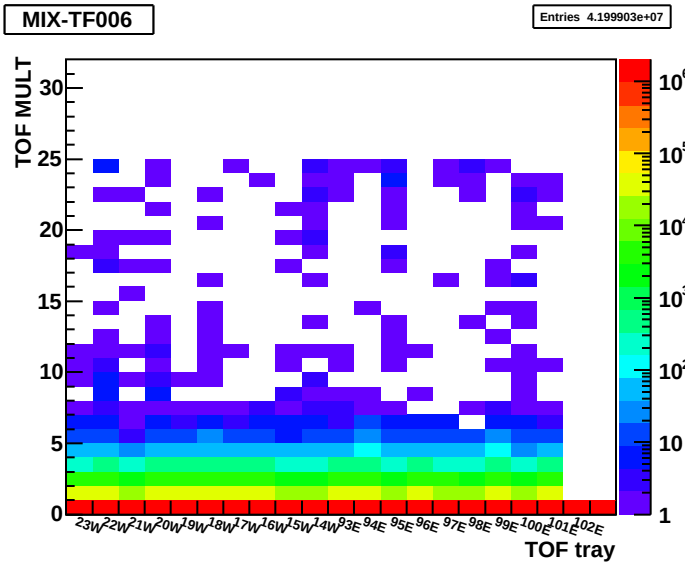

MIX-TF001
Entries 4.199903e+07
TOF MULT
TOF tray

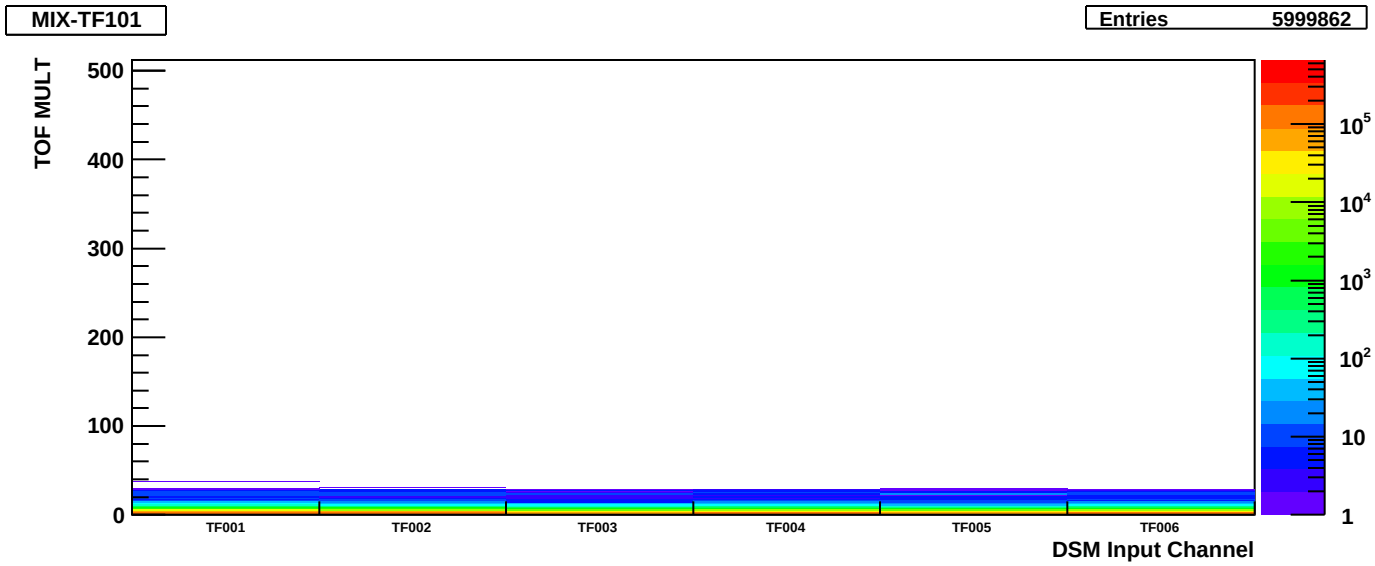

MIX-TF002
Entries 4.199903e+07
TOF MULT
TOF tray

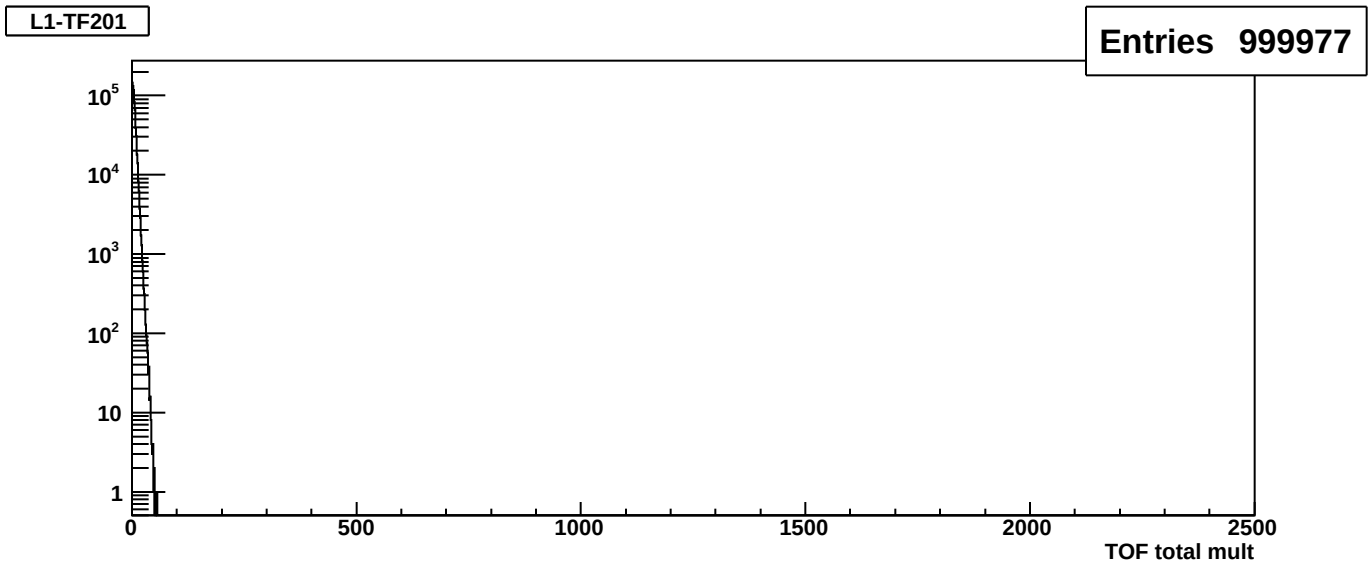

MIX-TF003
Entries 4.199903e+07
TOF MULT
TOF tray

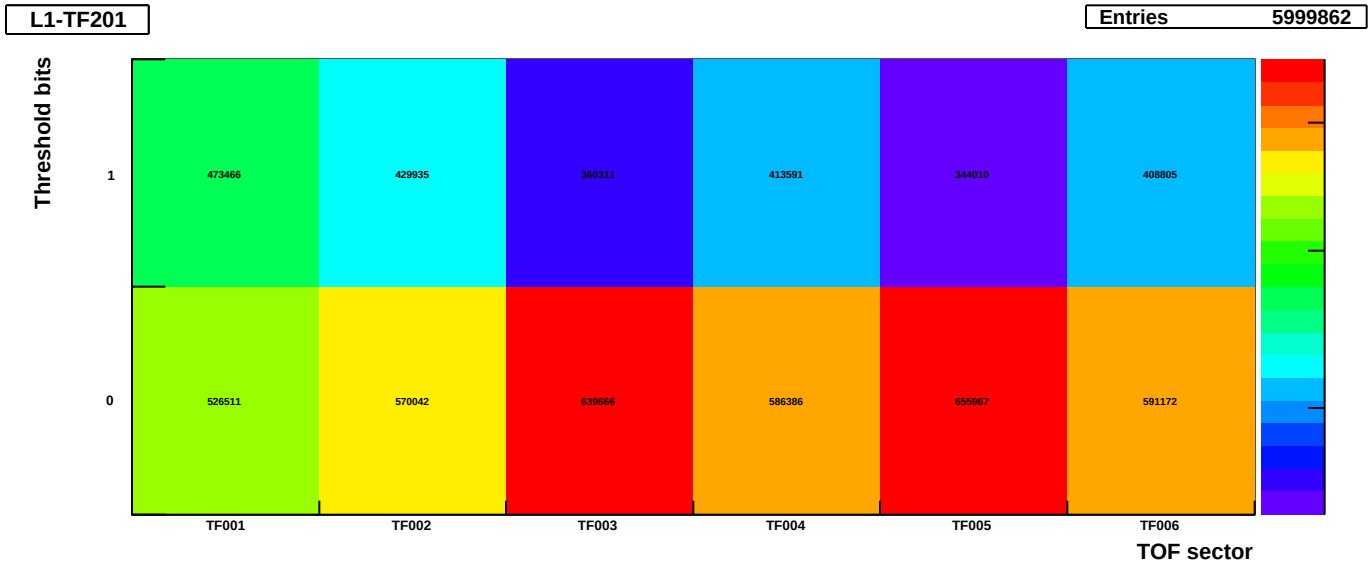

MIX-TF004
Entries 4.199903e+07
TOF MULT
TOF tray

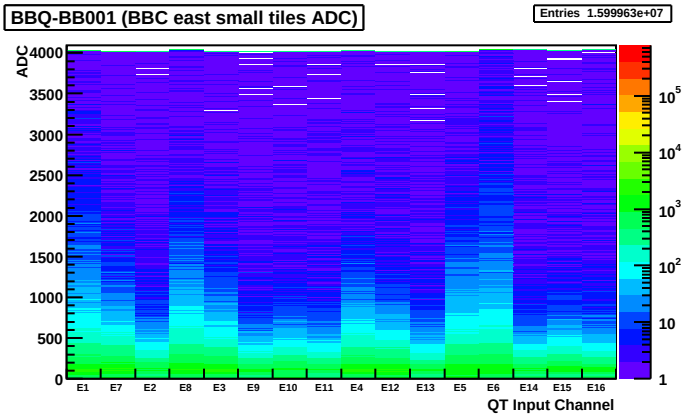

MIX-TF005
Entries 4.199903e+07
TOF MULT
TOF tray

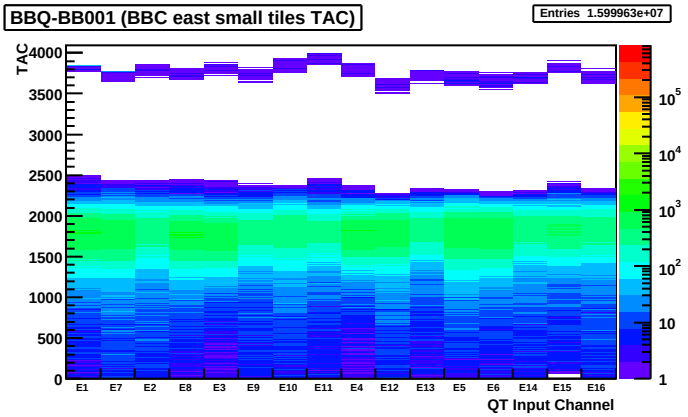

MIX-TF006
Entries 4.199903e+07
TOF MULT
TOF tray

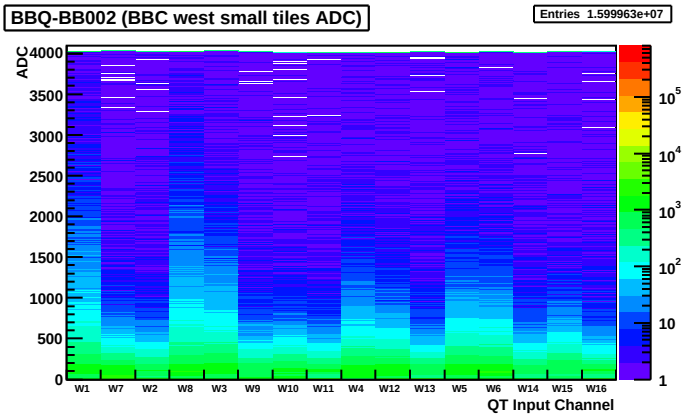

MIX-TF101
Entries 5999862
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

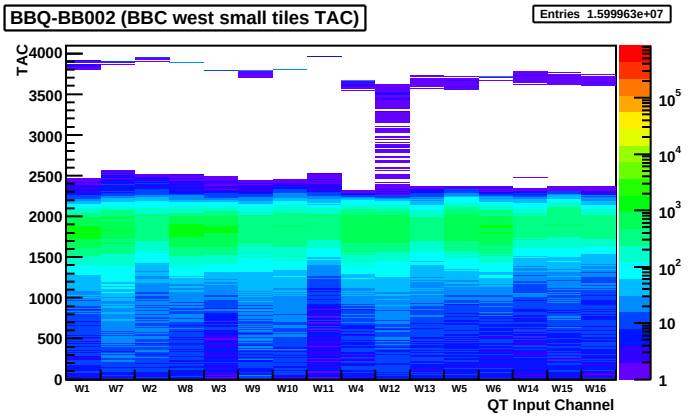

L1-TF201
Entries 999977
10^5
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

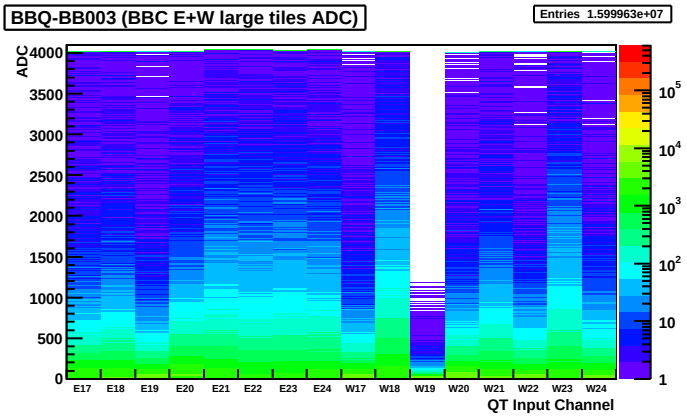

L1-TF201
Entries 5999862
Threshold bits
1
0
473466
429935
360311
413591
344010
408805
526511
570042
639666
586386
655967
591172
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

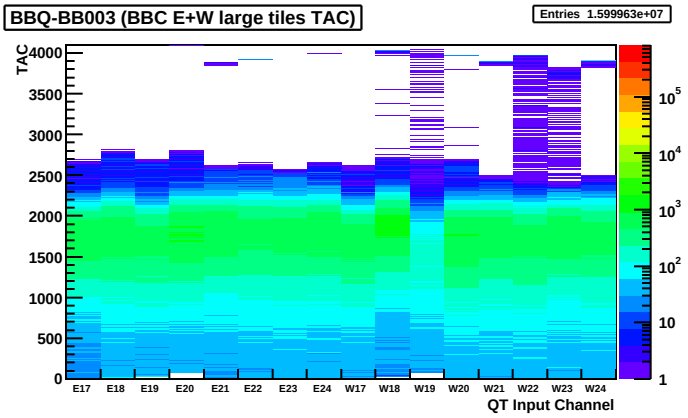

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.599963e+07
ADC
QT Input Channel

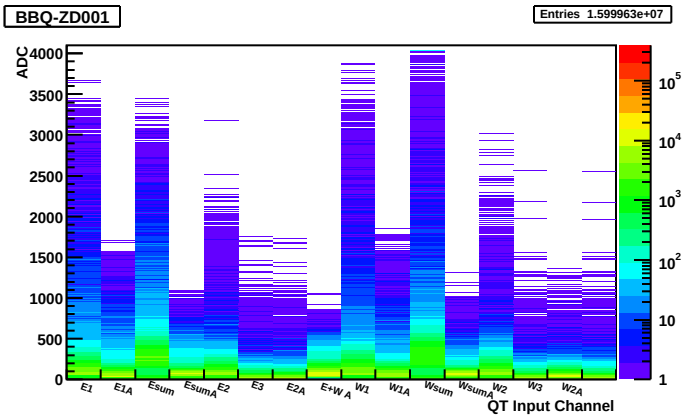

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.599963e+07
TAC
QT Input Channel

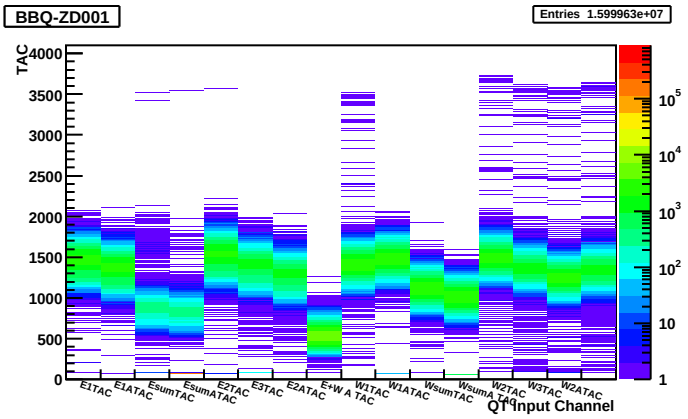

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.599963e+07
ADC
QT Input Channel

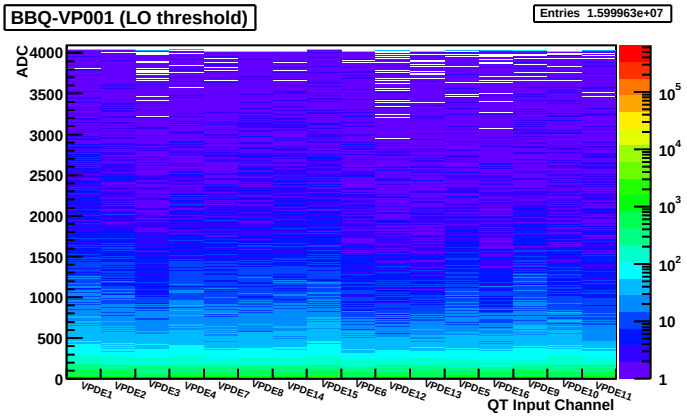

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.599963e+07
TAC
QT Input Channel

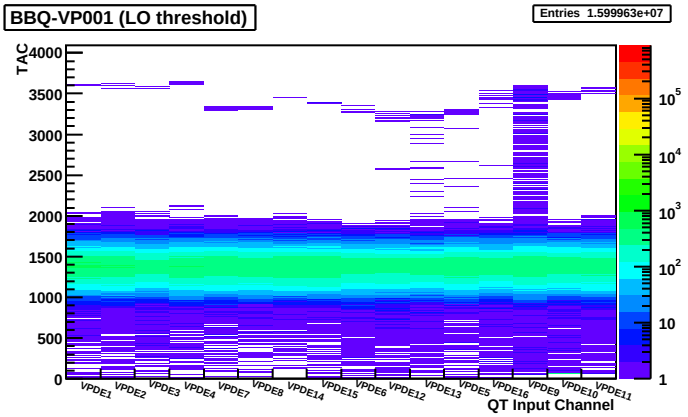

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.599963e+07
ADC
QT Input Channel

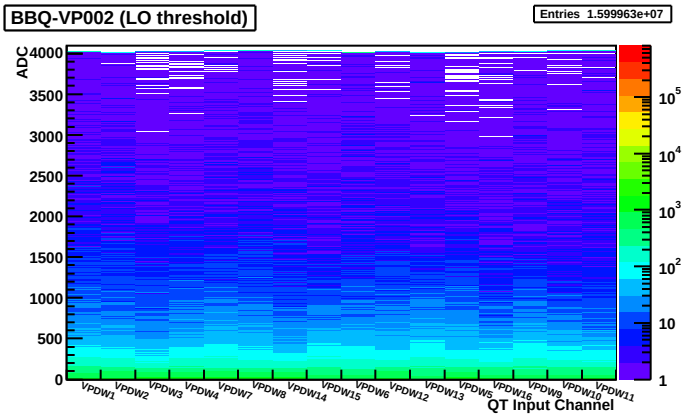

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.599963e+07
TAC
QT Input Channel

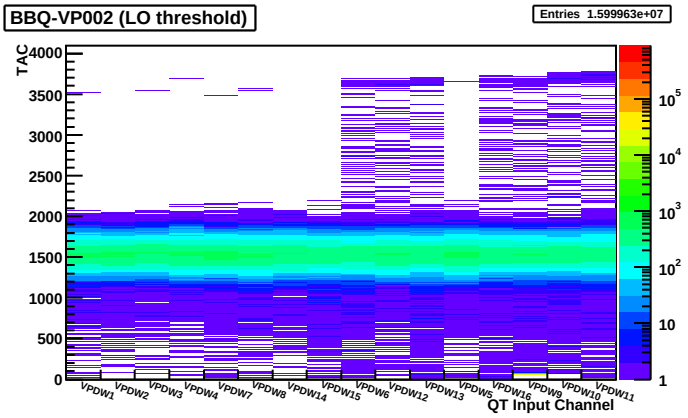

BBQ-ZD001
Entries 1.599963e+07
ADC
QT Input Channel

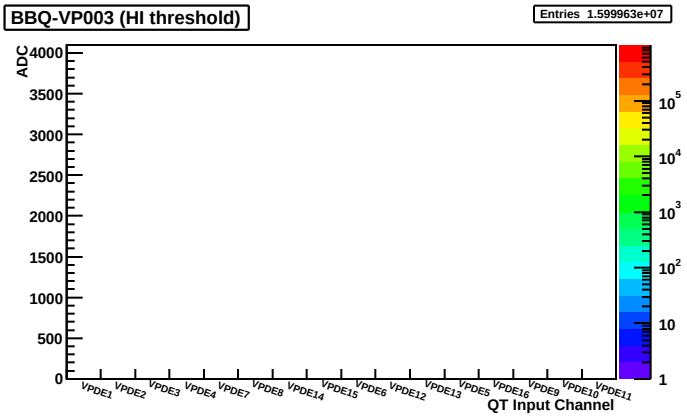

BBQ-ZD001
Entries 1.599963e+07
TAC
QT Input Channel

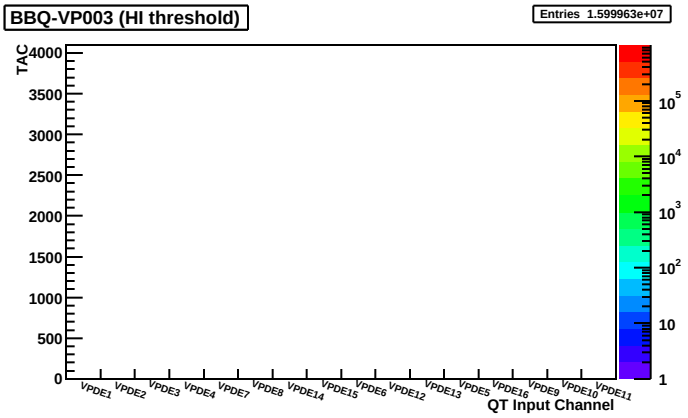

BBQ-VP001 (LO threshold)
Entries 1.599963e+07
ADC
QT Input Channel

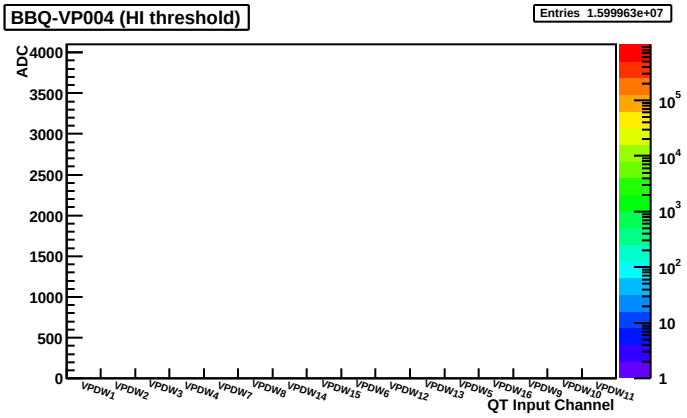

BBQ-VP001 (LO threshold)
Entries 1.599963e+07
TAC
QT Input Channel

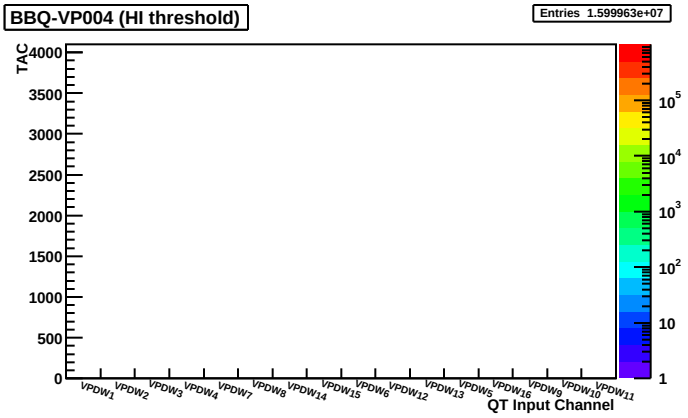

BBQ-VP002 (LO threshold)
Entries 1.599963e+07
ADC
QT Input Channel

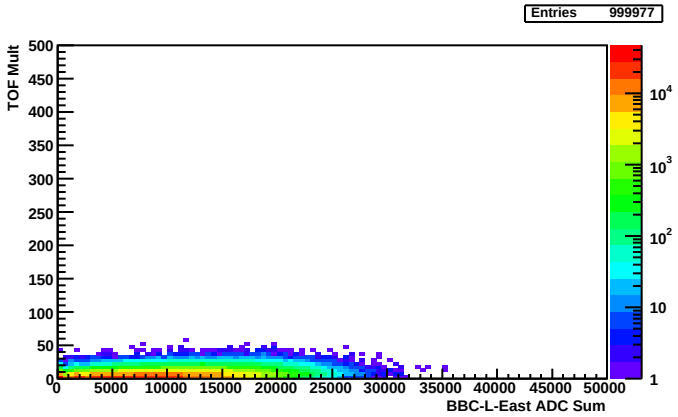

BBQ-VP002 (LO threshold)
Entries 1.599963e+07
TAC
QT Input Channel

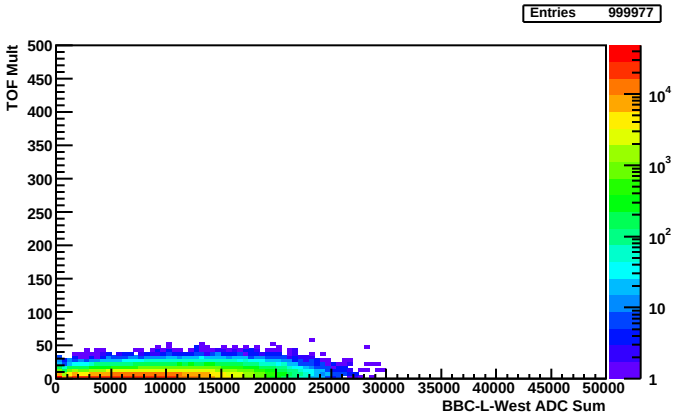

BBQ-VP003 (HI threshold)
Entries 1.599963e+07
ADC
QT Input Channel

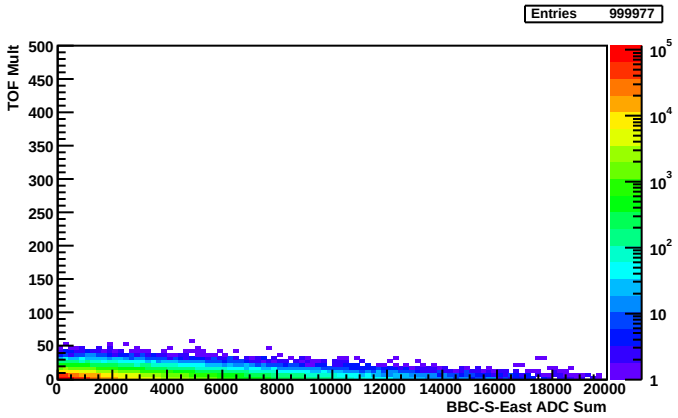

BBQ-VP003 (HI threshold)
Entries 1.599963e+07
TAC
QT Input Channel

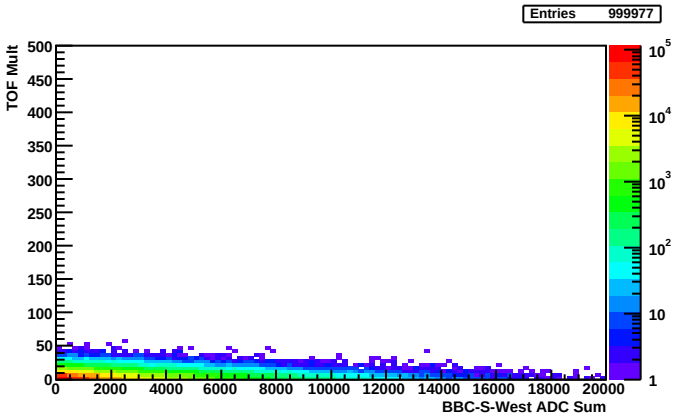

BBQ-VP004 (HI threshold)
Entries 1.599963e+07
ADC
QT Input Channel

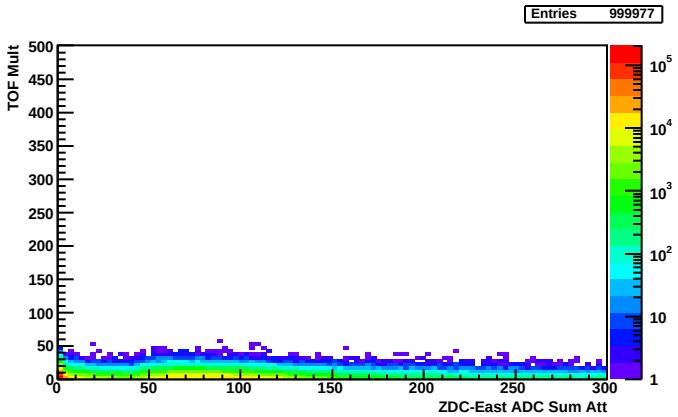

BBQ-VP004 (HI threshold)
Entries 1.599963e+07
TAC
QT Input Channel

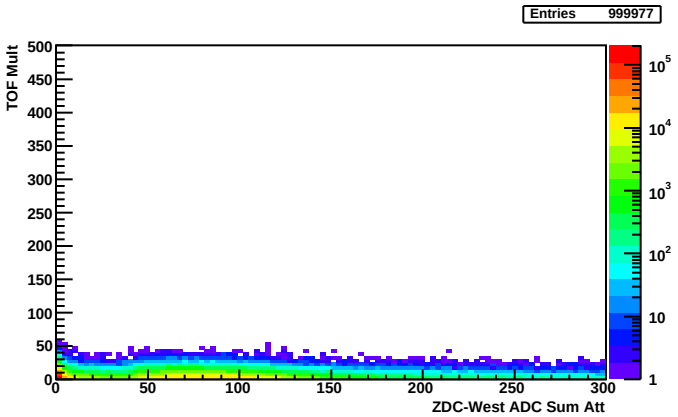

Entries 999977
TOF Mult
BBC-L-East ADC Sum

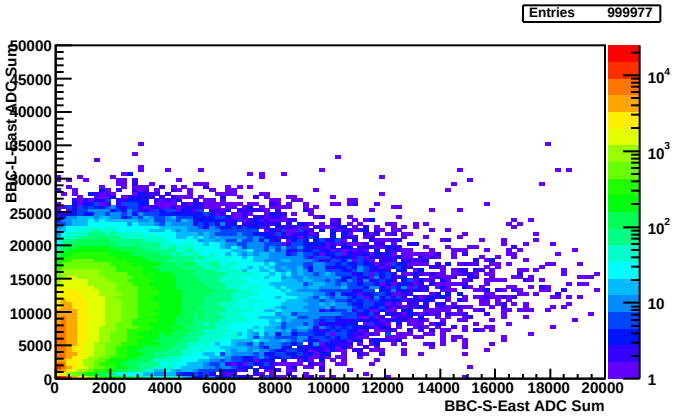

Entries 999977
TOF Mult
BBC-L-West ADC Sum

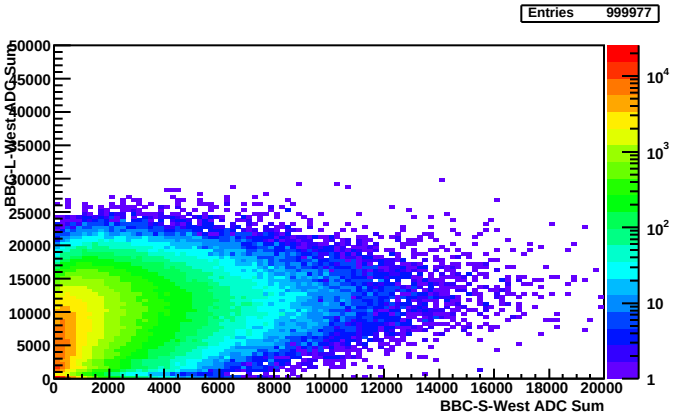

Entries 999977
TOF Mult
BBC-S-East ADC Sum

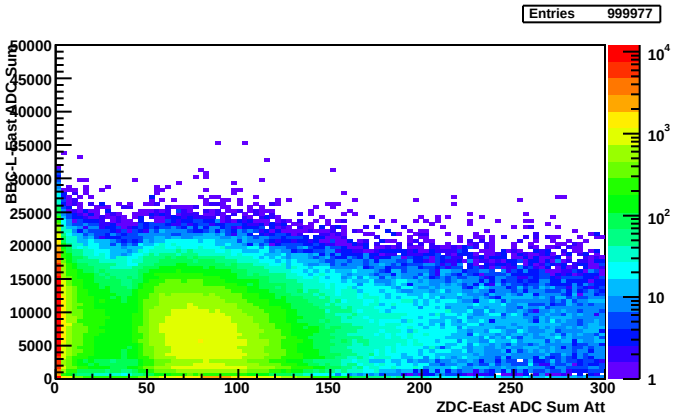

Entries 999977
TOF Mult
BBC-S-West ADC Sum

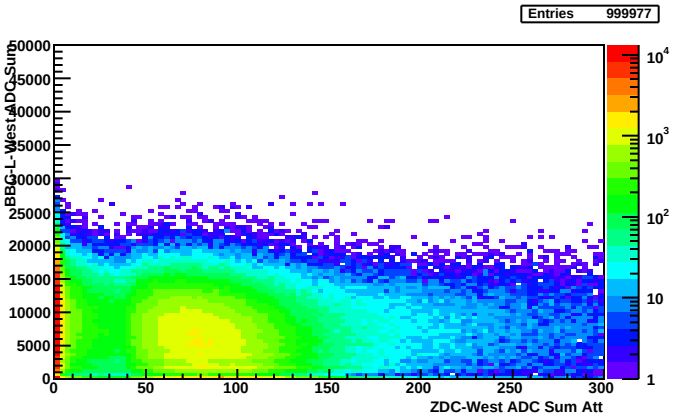

Entries 999977
TOF Mult
ZDC-East ADC Sum Att

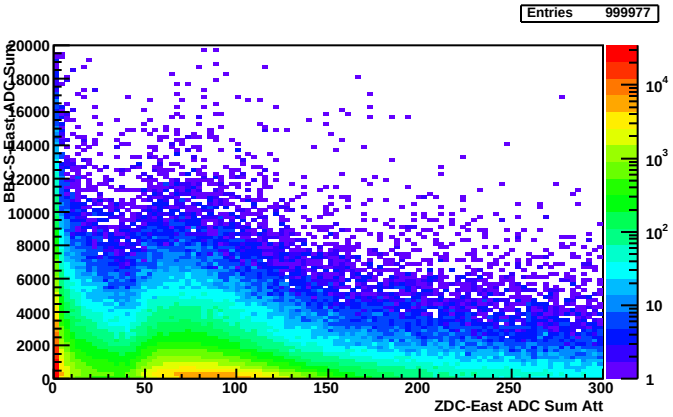

Entries 999977
TOF Mult
ZDC-West ADC Sum Att

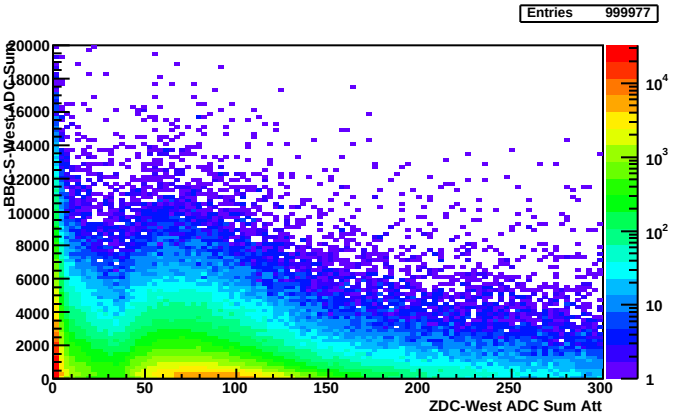

Entries 999977
BBC-L-East ADC Sum
BBC-S-East ADC Sum

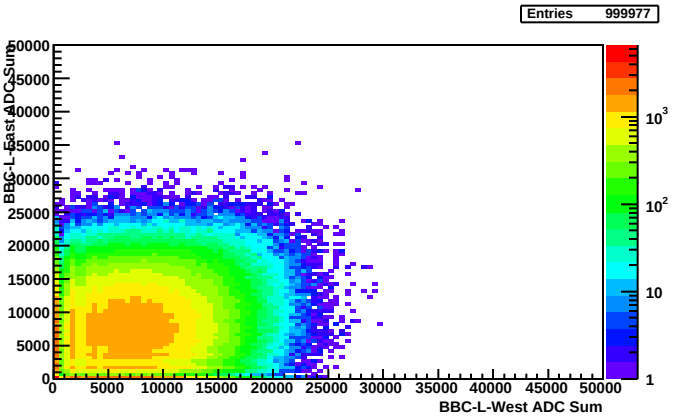

Entries 999977
BBC-L-West ADC Sum
BBC-S-West ADC Sum

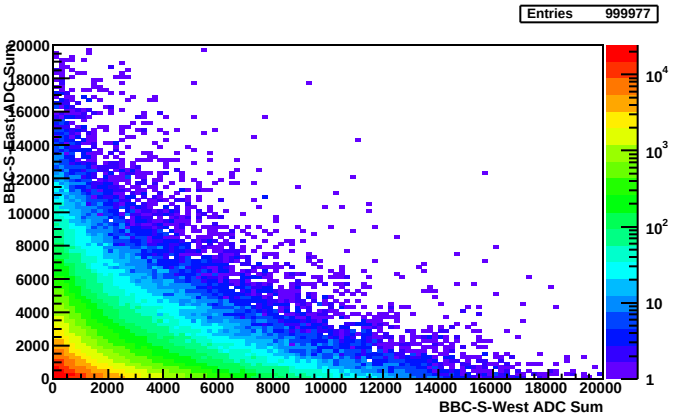

Entries 999977
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

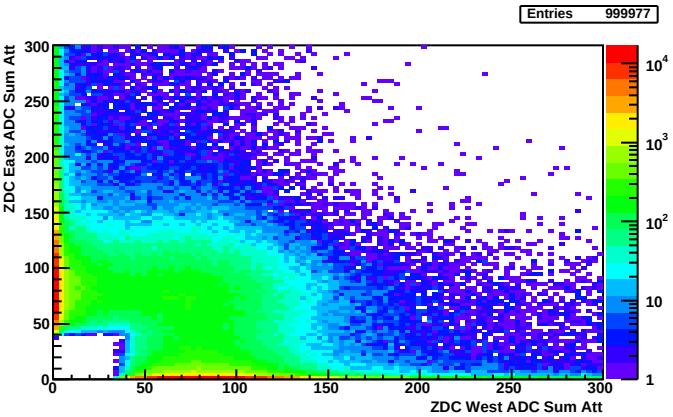

Entries 999977
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

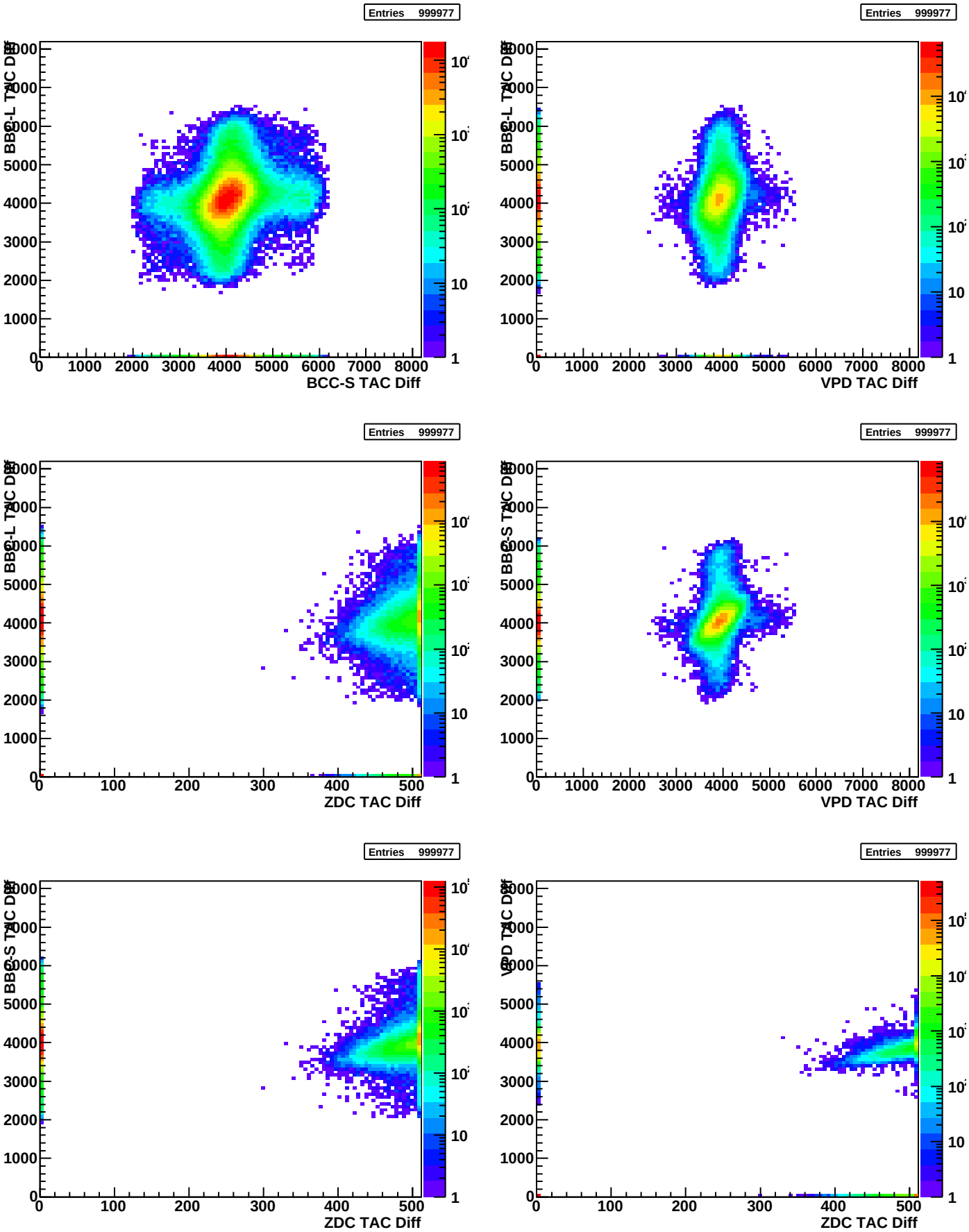

Entries 999977
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

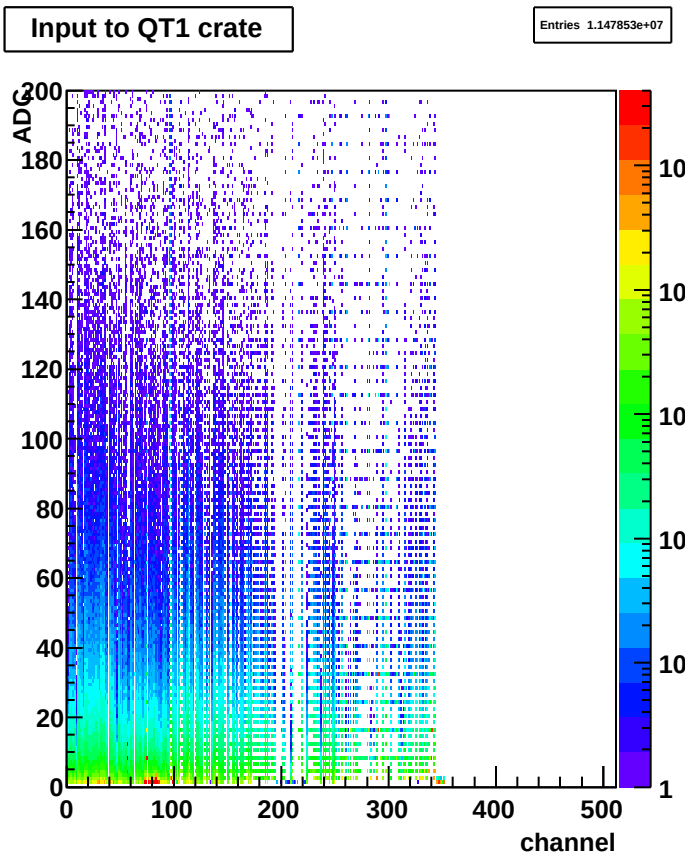

Entries 999977
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

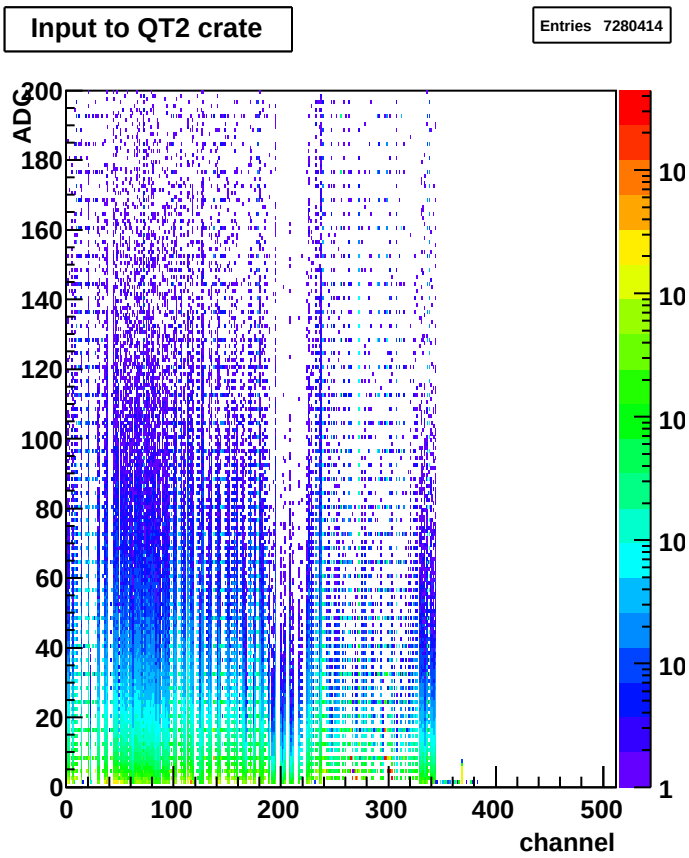

Entries 999977
BBC-L-East ADC Sum
BBC-L-West ADC Sum

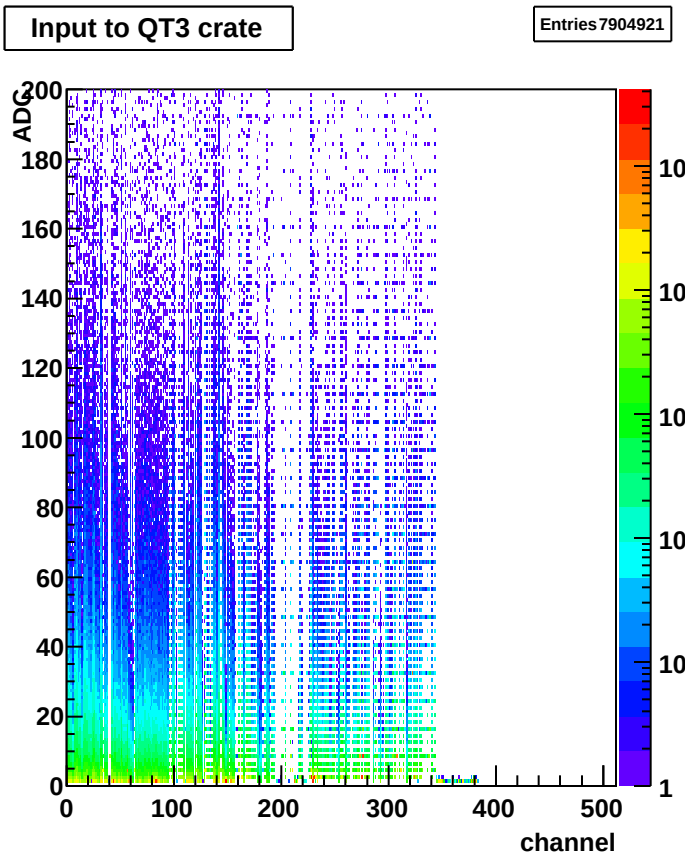

Entries 999977
BBC-S-East ADC Sum
BBC-S-West ADC Sum

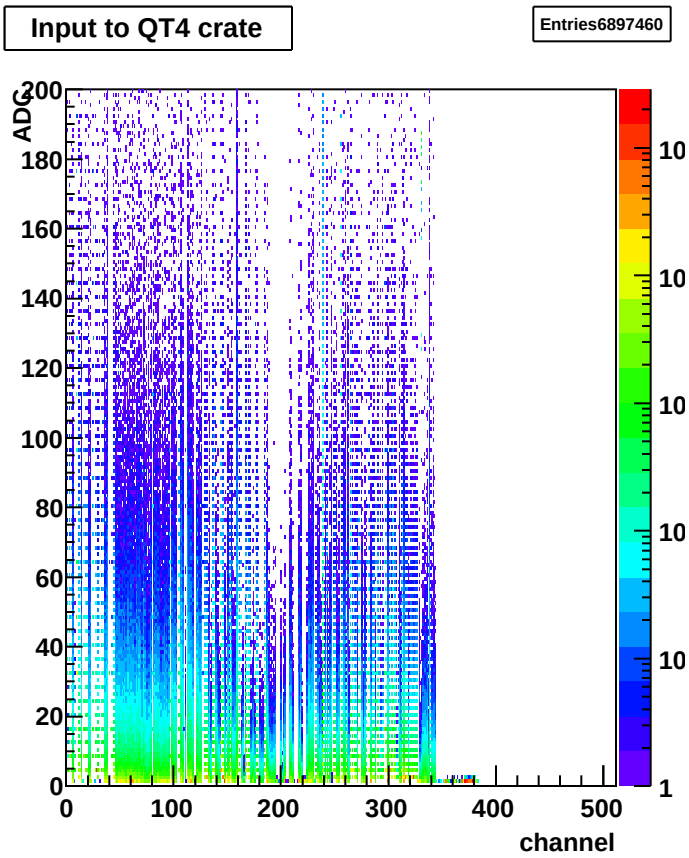

Entries 999977
ZDC East ADC Sum Att
ZDC West ADC Sum Att

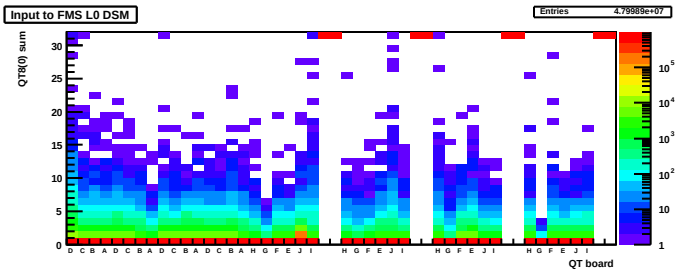

Entries 999977
BBC-L TAC Diff
BCC-S TAC Diff
Entries 999977
BBC-L TAC Diff
VPD TAC Diff
Entries 999977
BBC-L TAC Diff
ZDC TAC Diff
Entries 999977
BBC-S TAC Diff
VPD TAC Diff
Entries 999977
BBC-S TAC Diff
ZDC TAC Diff
Entries 999977
VPD TAC Diff
ZDC TAC Diff

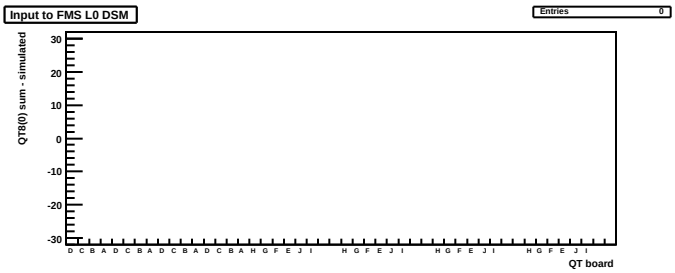

Input to QT1 crate
Entries 1.147853e+07
ADC
channel

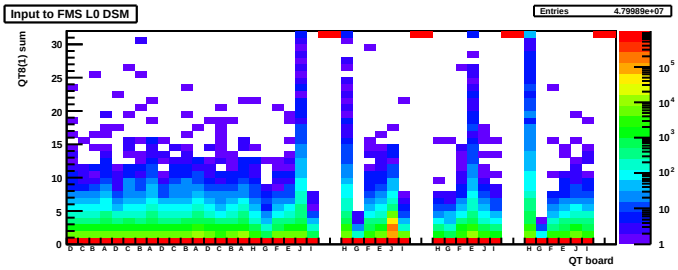

Input to QT2 crate
Entries 7280414
ADC
channel

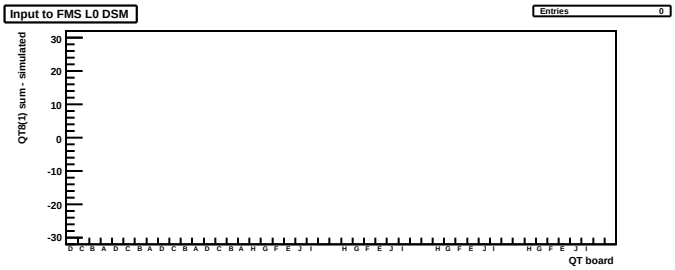

Input to QT3 crate
Entries 7904921
ADC
channel

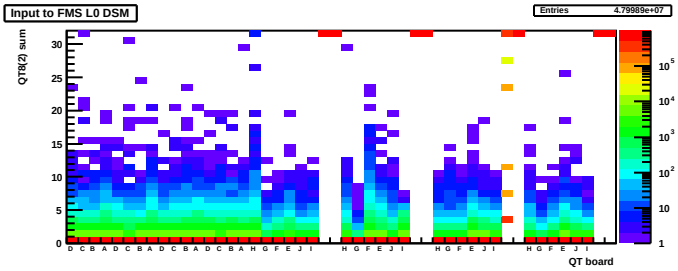

Input to QT4 crate
Entries 6897460
ADC
channel

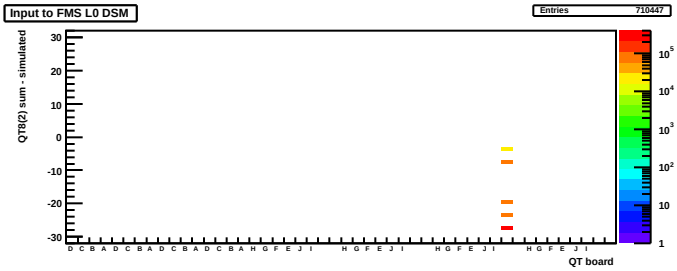

Input to FMS L0 DSM
Entries 4.79989e+07
QT8(0) sum
QT board

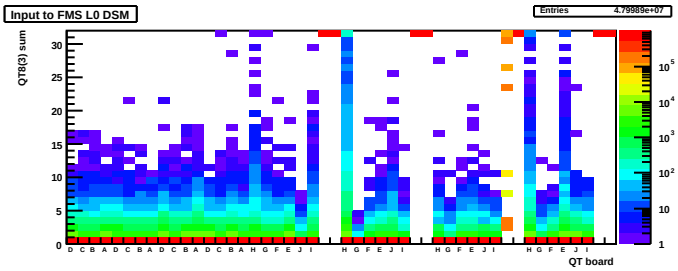

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

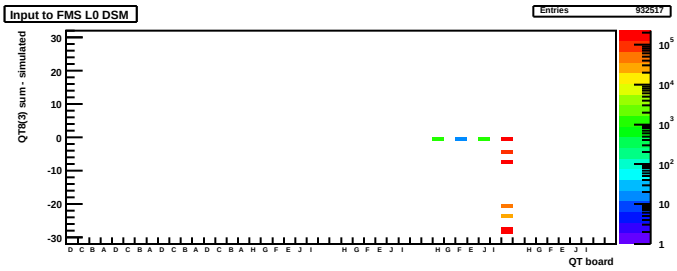

Input to FMS L0 DSM
Entries 4.79989e+07
QT8(1) sum
QT board

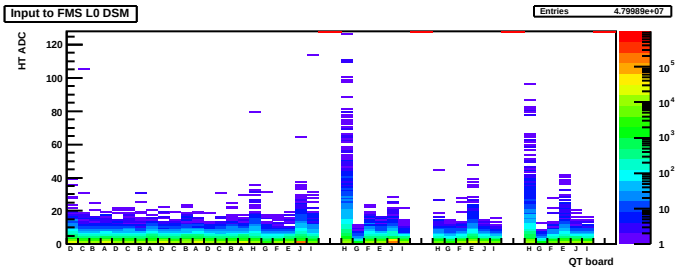

Input to FMS L0 DSM
Entries 0
QT8(1) sum - simulated
QT board

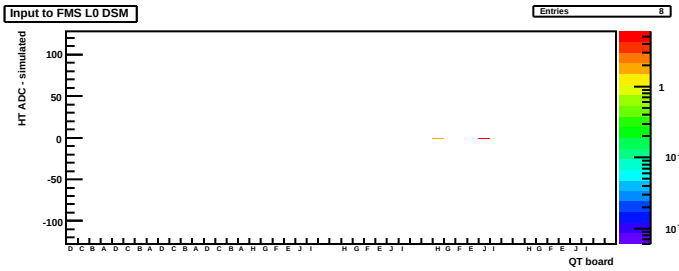

Input to FMS L0 DSM
Entries 4.79989e+07
QT8(2) sum
QT board

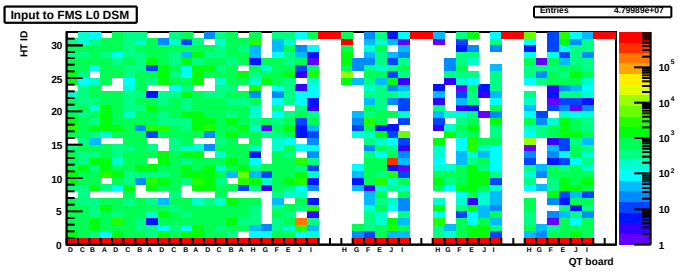

Input to FMS L0 DSM
Entries 710447
QT8(2) sum - simulated
QT board

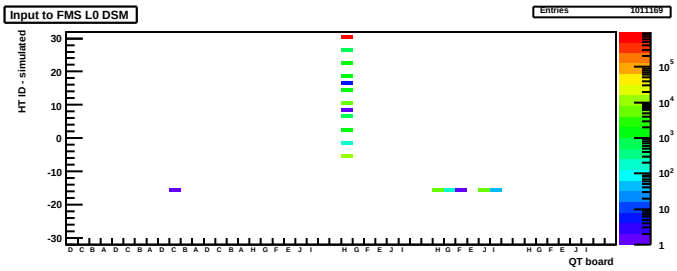

Input to FMS L0 DSM
Entries 4.79989e+07
QT8(3) sum
QT board

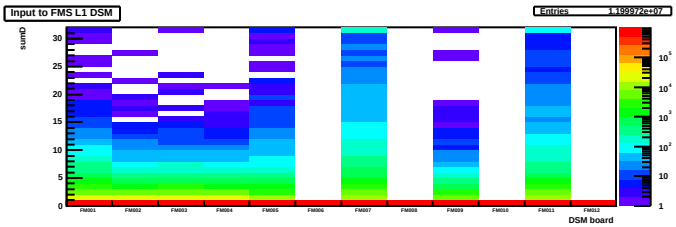

Input to FMS L0 DSM
Entries 932517
QT8(3) sum - simulated
QT board

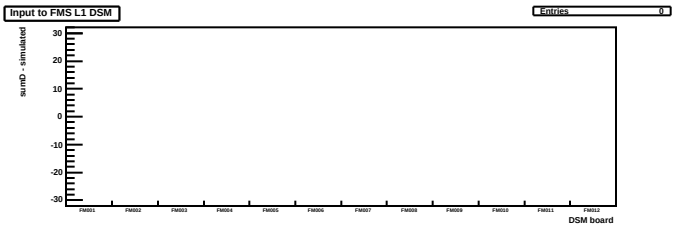

Input to FMS L0 DSM
Entries 4.79989e+07
HT ADC
QT board

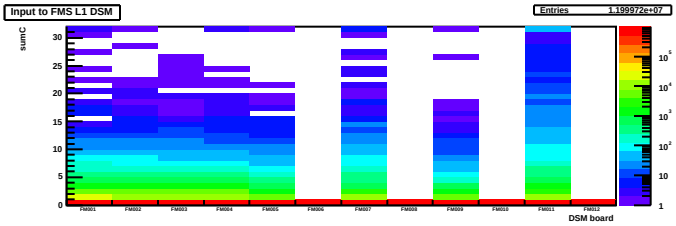

Input to FMS L0 DSM
Entries 8
HT ADC - simulated
QT board

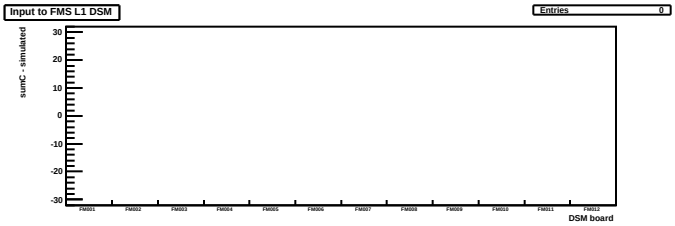

Input to FMS L0 DSM
Entries 4.79989e+07
HT ID
QT board

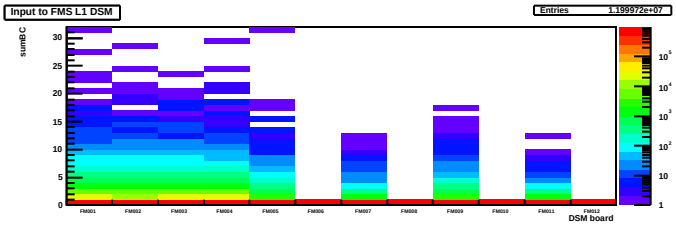

Input to FMS L0 DSM
Entries 1011169
HT ID - simulated
QT board

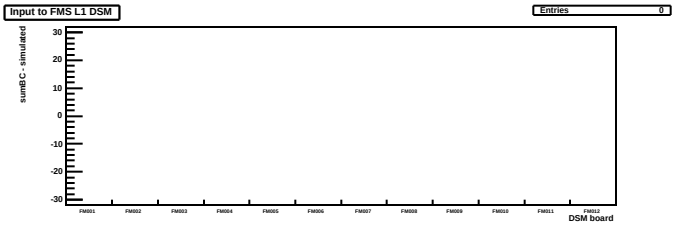

Input to FMS L1 DSM
Entries 1.199972e+07
sumD
DSM board

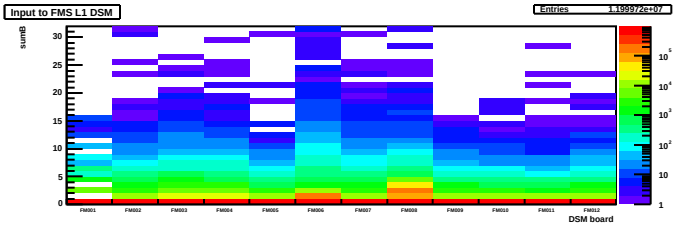

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

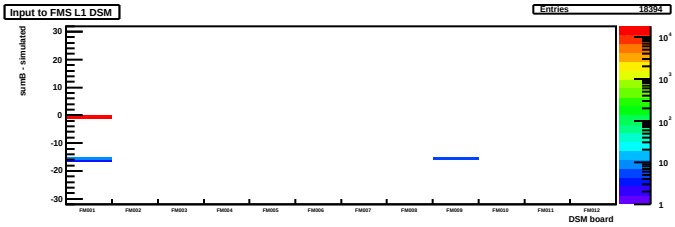

Input to FMS L1 DSM
Entries 1.199972e+07
sumC
DSM board

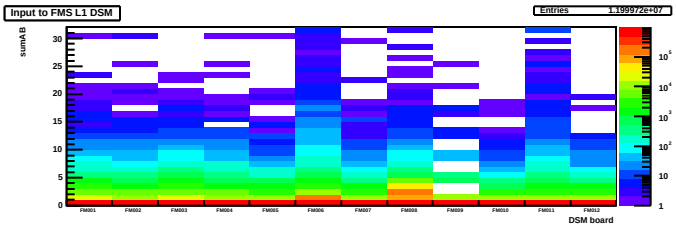

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

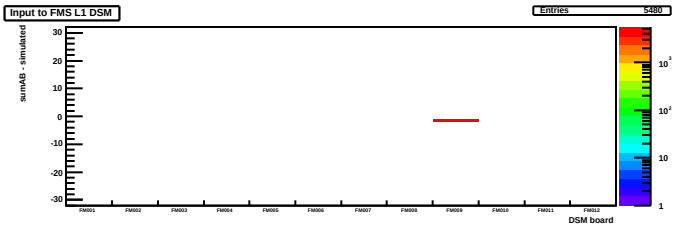

Input to FMS L1 DSM
Entries 1.199972e+07
sumBC
DSM board

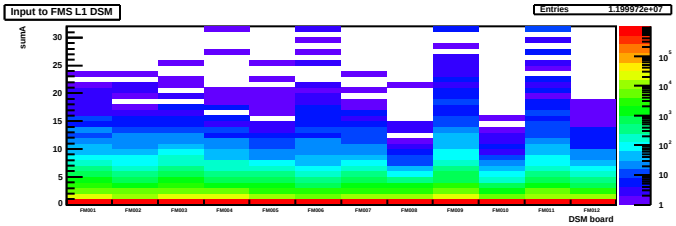

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

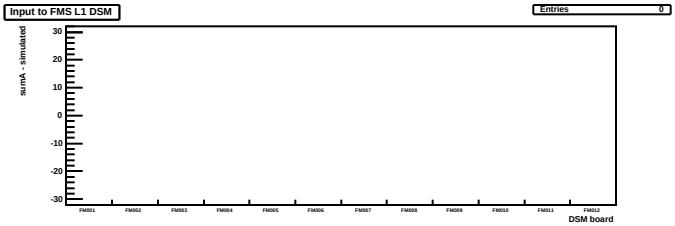

Input to FMS L1 DSM
Entries 1.199972e+07
sumB
DSM board

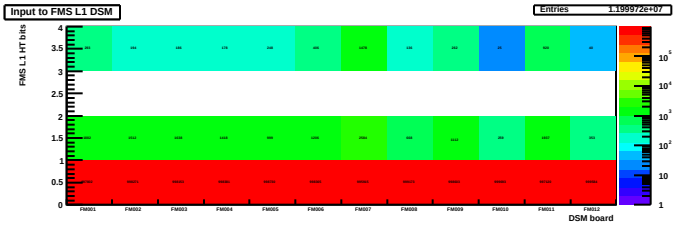

Input to FMS L1 DSM
Entries 18394
sumB - simulated
DSM board

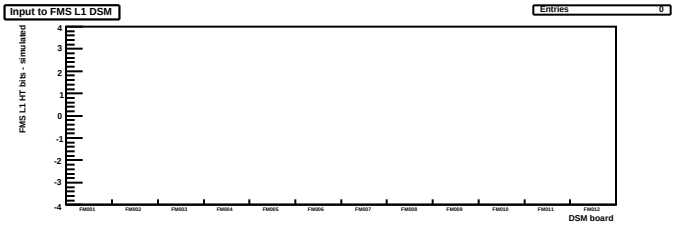

Input to FMS L1 DSM
Entries 1.199972e+07
sumAB
DSM board

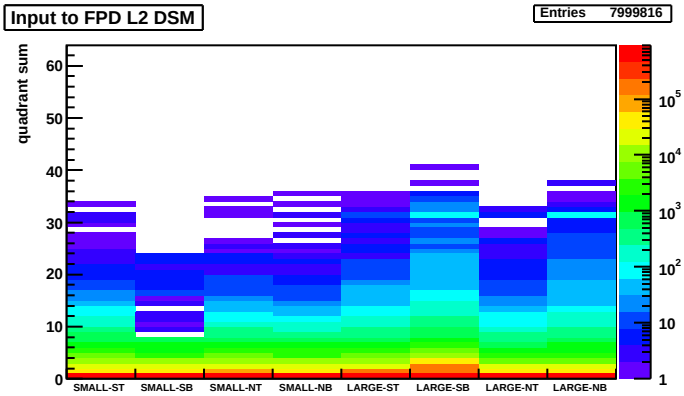

Input to FMS L1 DSM
Entries 5480
sumAB - simulated
DSM board

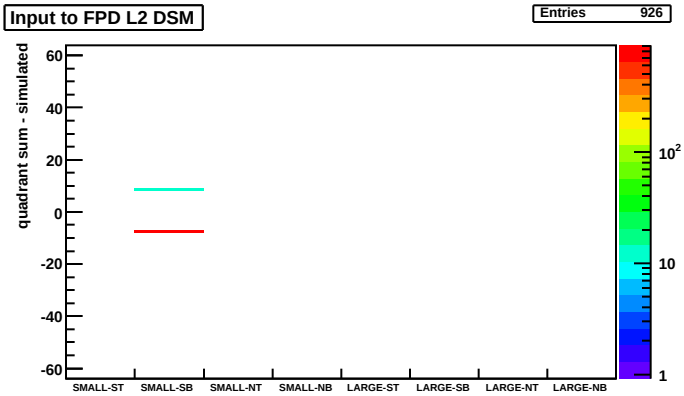

Input to FMS L1 DSM
Entries 1.199972e+07
sumA
DSM board

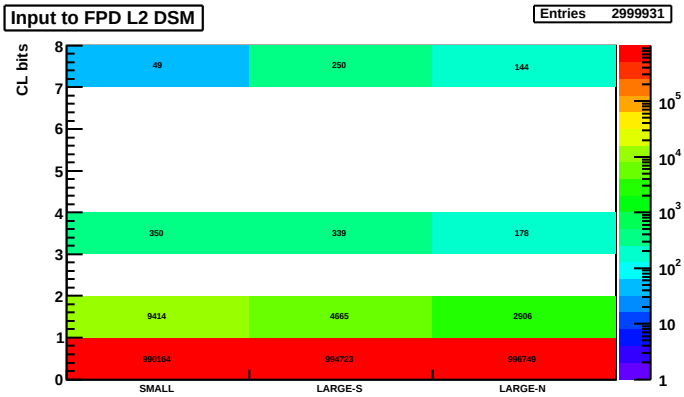

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

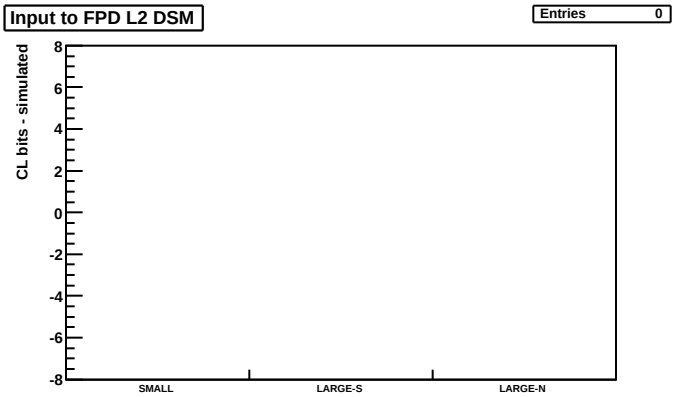

Input to FMS L1 DSM
Entries 1.199972e+07
FMS L1 HT bits
DSM board

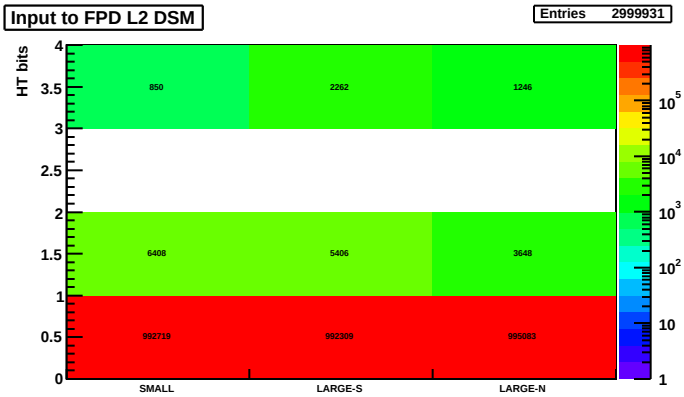

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

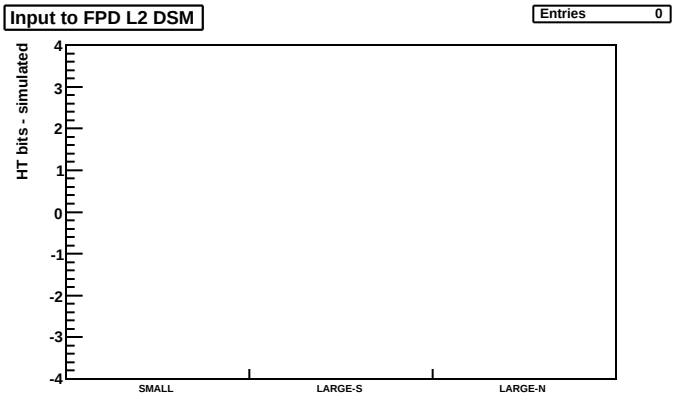

Input to FPD L2 DSM
Entries 7999816
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

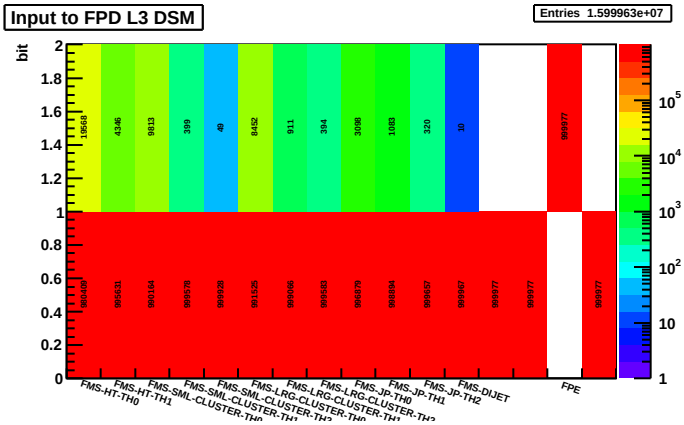

Input to FPD L2 DSM
Entries 926
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

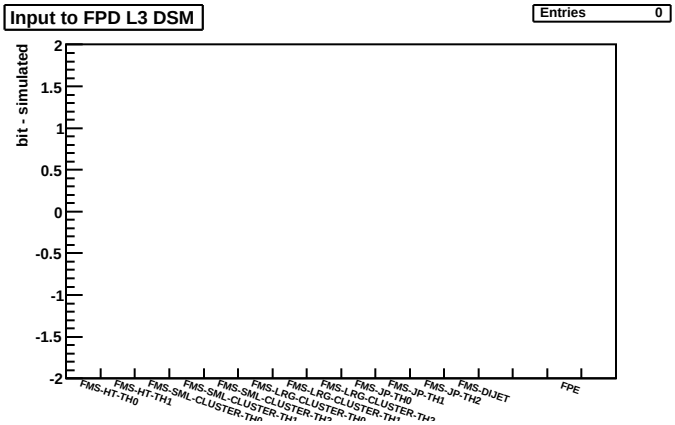

Input to FPD L2 DSM
Entries 2999931
CL bits
49
250
144
350
339
178
9414
4665
2906
990164
994723
996749
SMALL
LARGE-S
LARGE-N

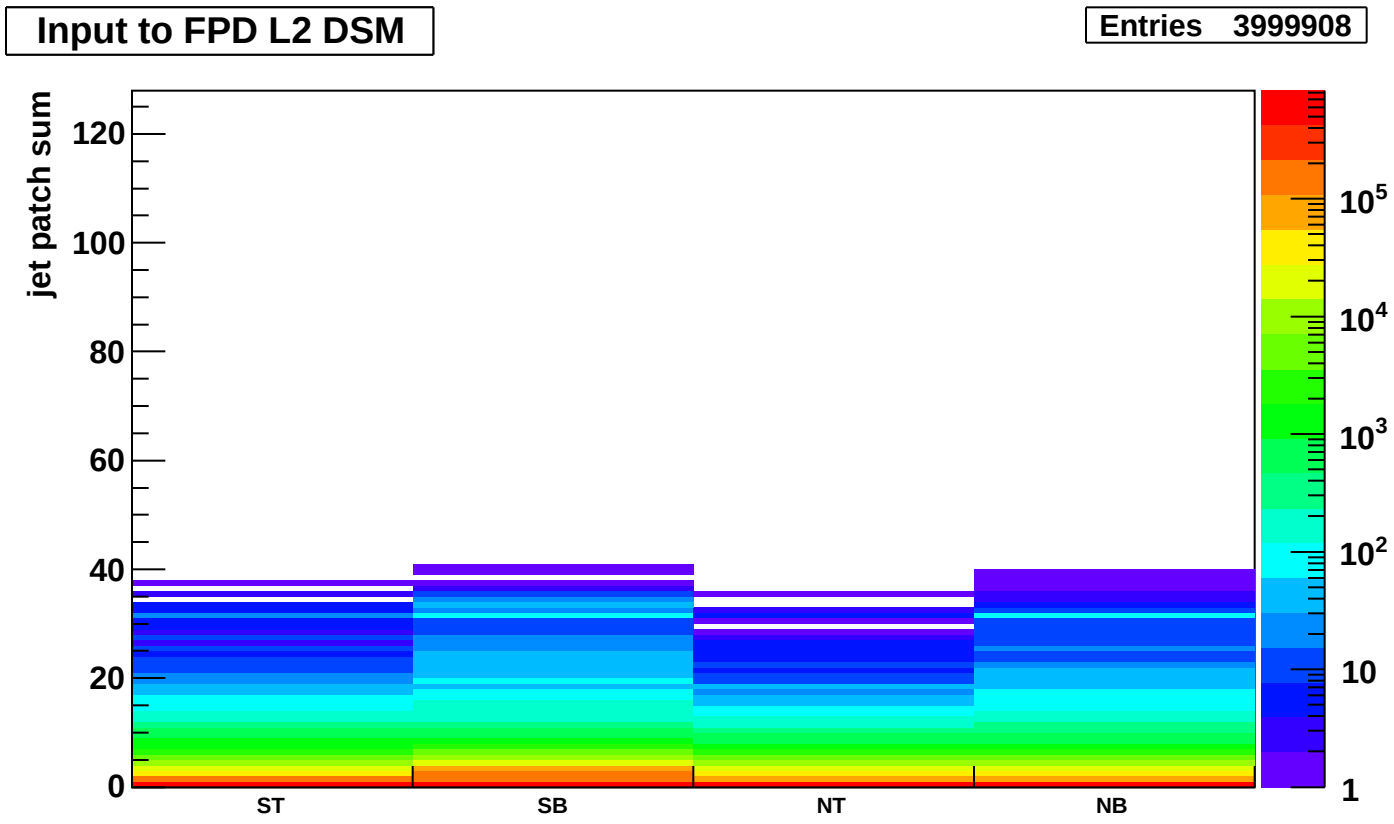

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

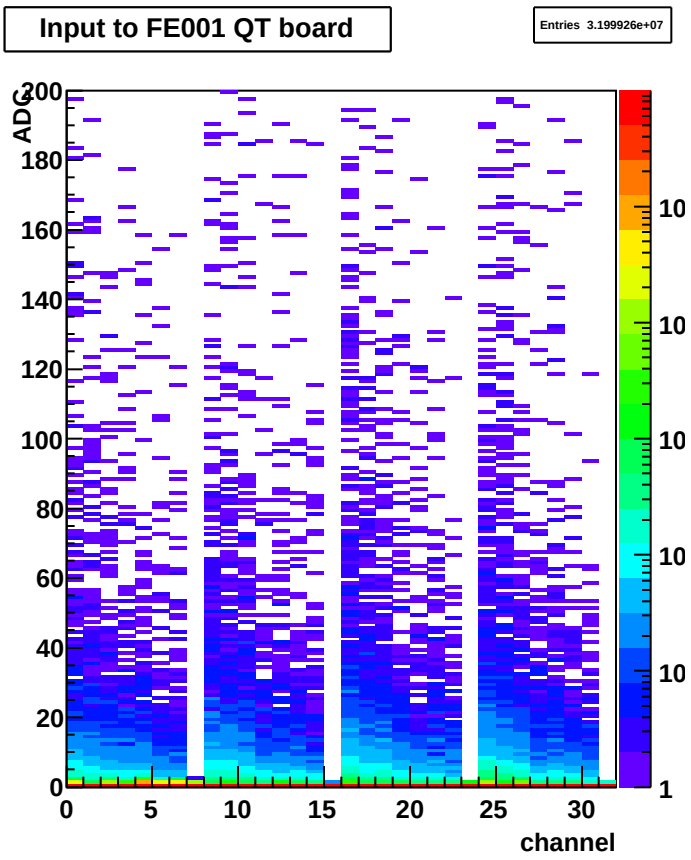

Input to FPD L2 DSM
Entries 2999931
HT bits
850
2262
1246
6408
5406
3648
992719
992309
995083
SMALL
LARGE-S
LARGE-N

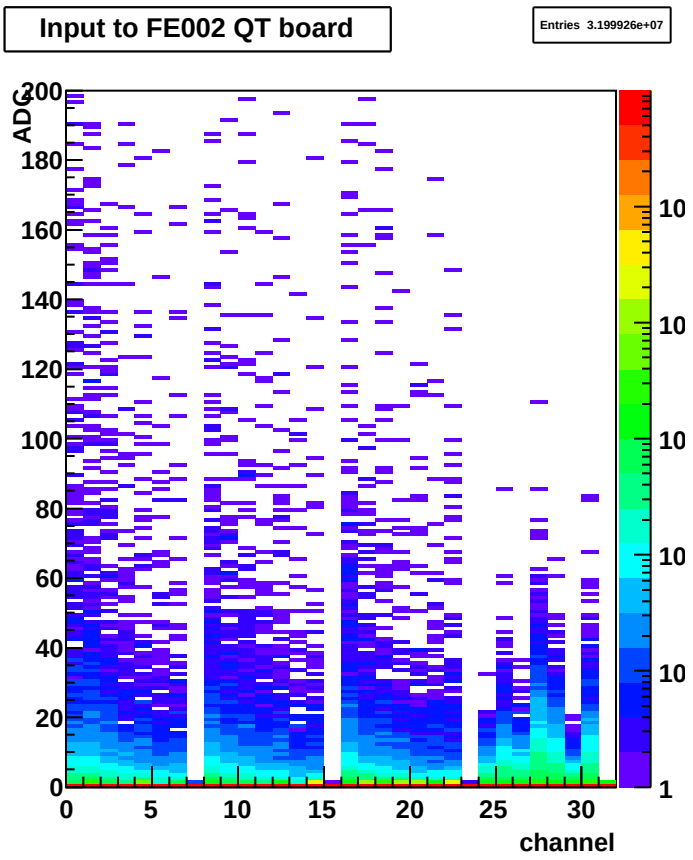

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

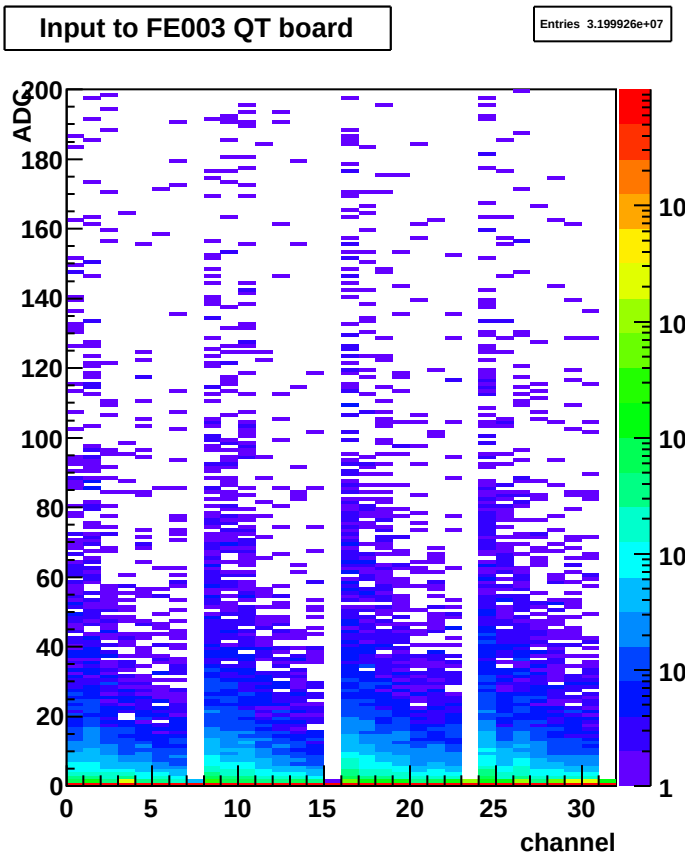

Input to FPD L3 DSM
Entries 1.599963e+07
bit
15608
4346
9813
399
49
8452
911
394
3098
1083
320
10
999977
990409
995631
990164
999578
999928
991325
999066
999583
996879
998094
999657
999967
999977
999977
999977
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

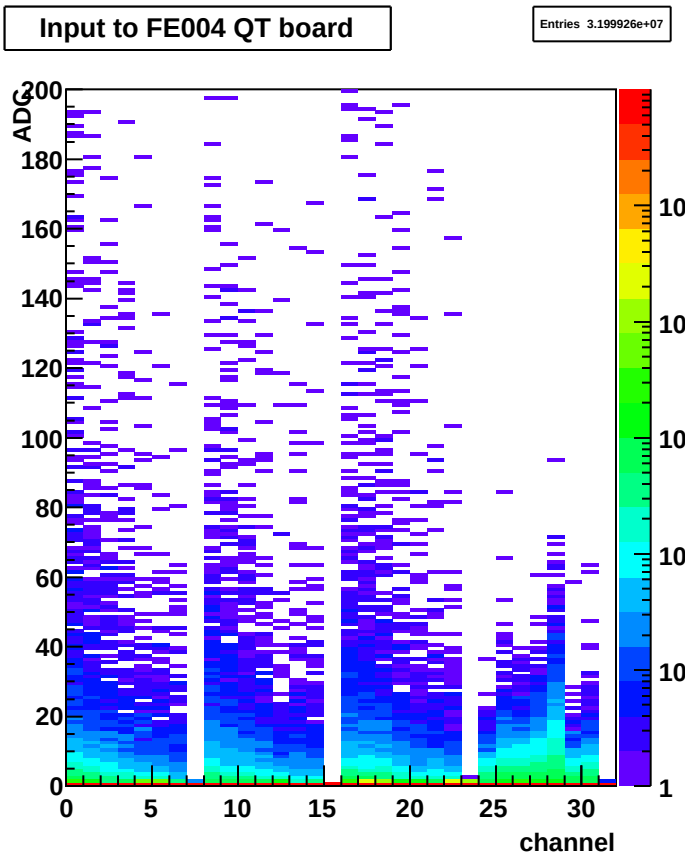

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

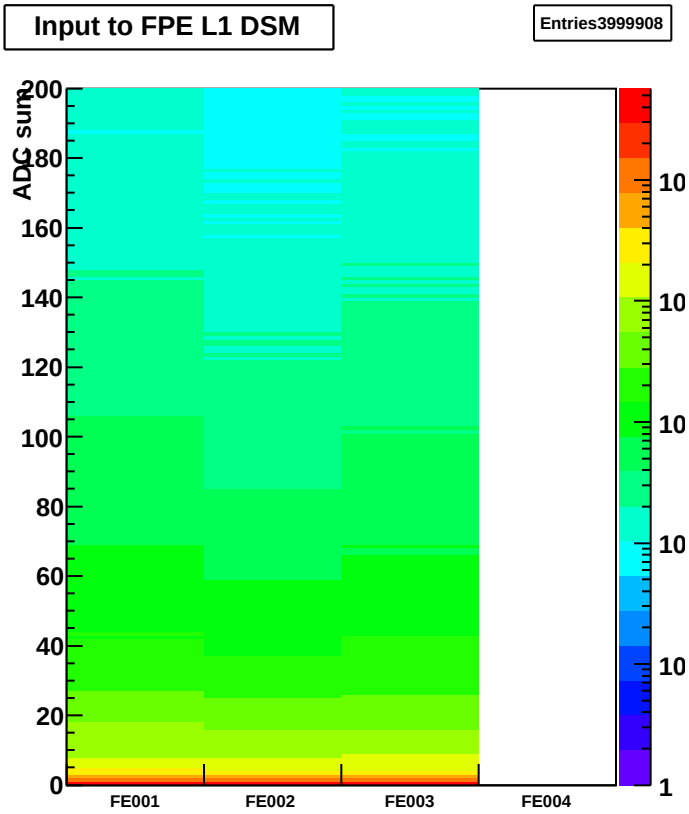

Input to FPD L2 DSM
Entries 3999908
jet patch sum
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

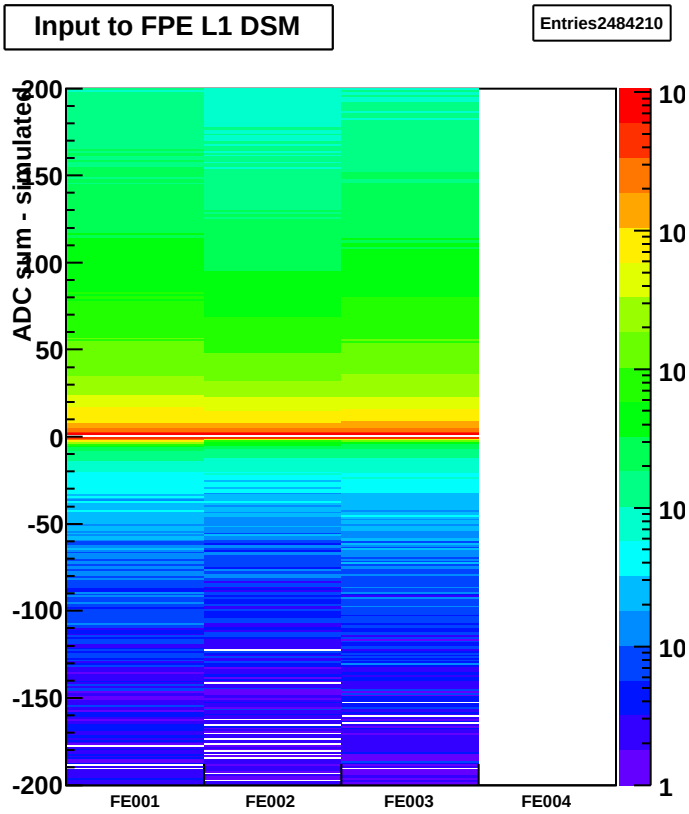

Input to FE001 QT board
Entries 3.199926e+07
ADC
channel

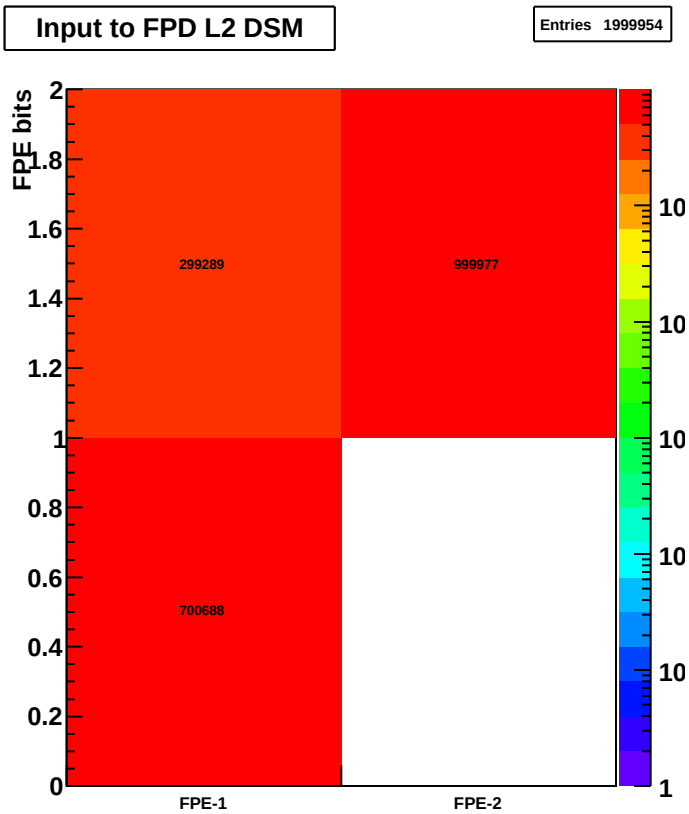

Input to FE002 QT board
Entries 3.199926e+07
ADC
channel

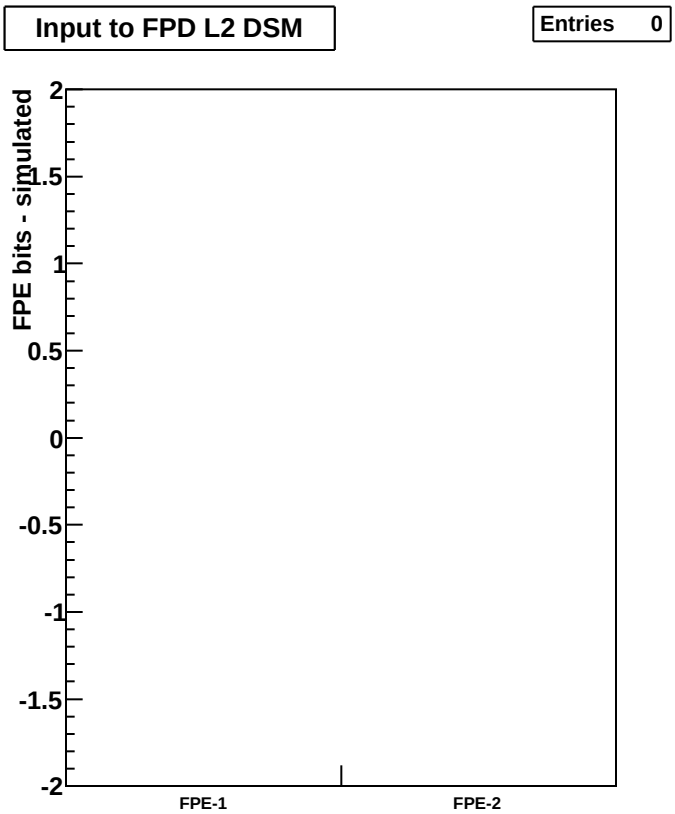

Input to FE003 QT board
Entries 3.199926e+07
ADC
channel


Input to FE004 QT board
Entries 3.199926e+07
ADC
channel


Input to FPE L1 DSM
Entries3999908
ADC sum
FE001
FE002
FE003
FE004


Input to FPE L1 DSM
Entries2484210
ADC sum - simulated
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries 1999954
FPE bits
299289
999977
700688
FPE-1
FPE-2


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