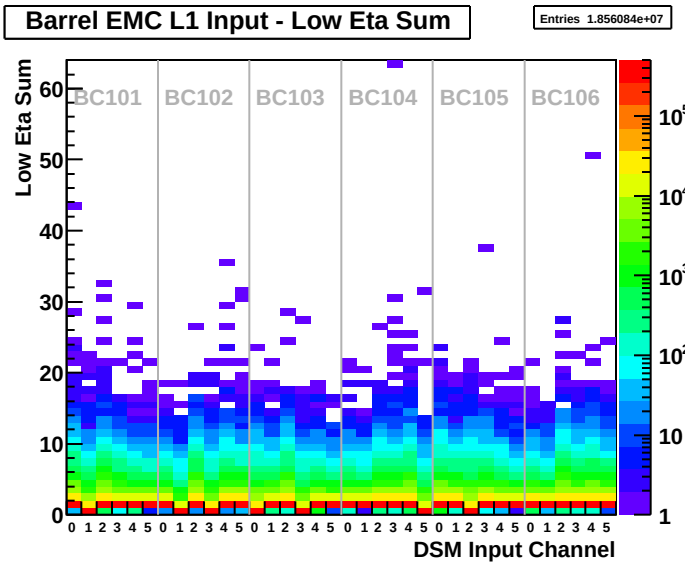
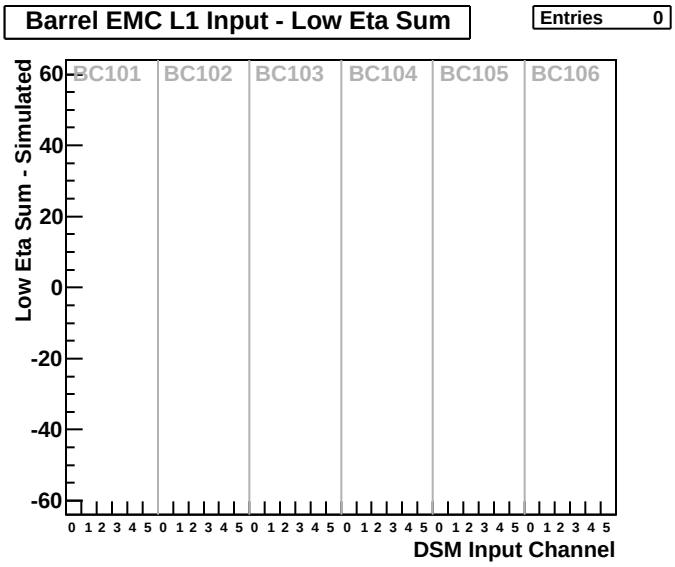
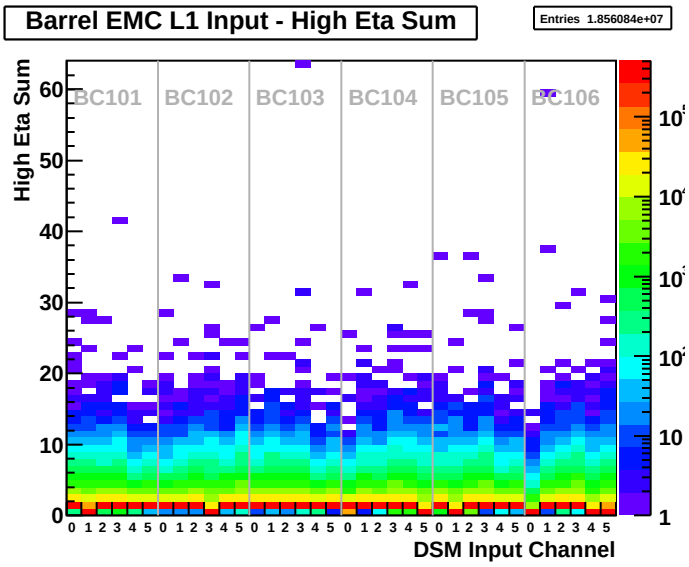
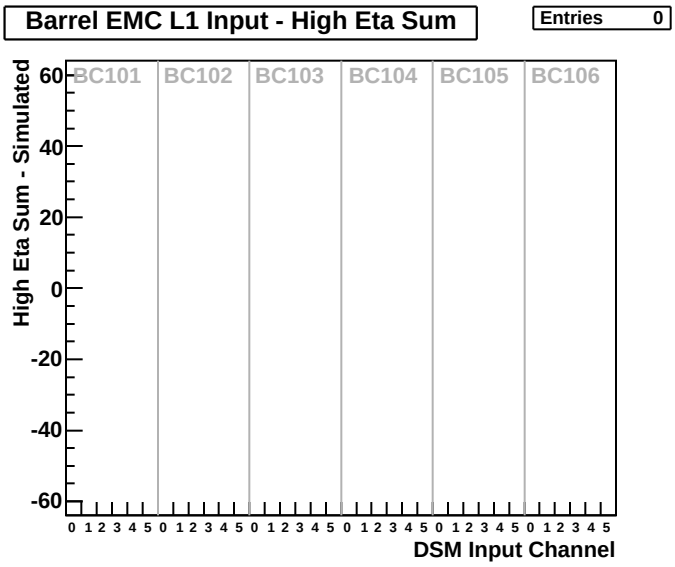
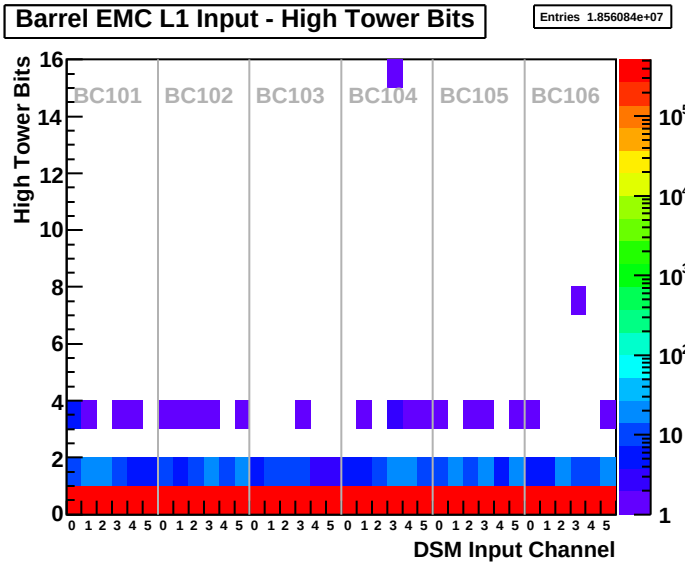
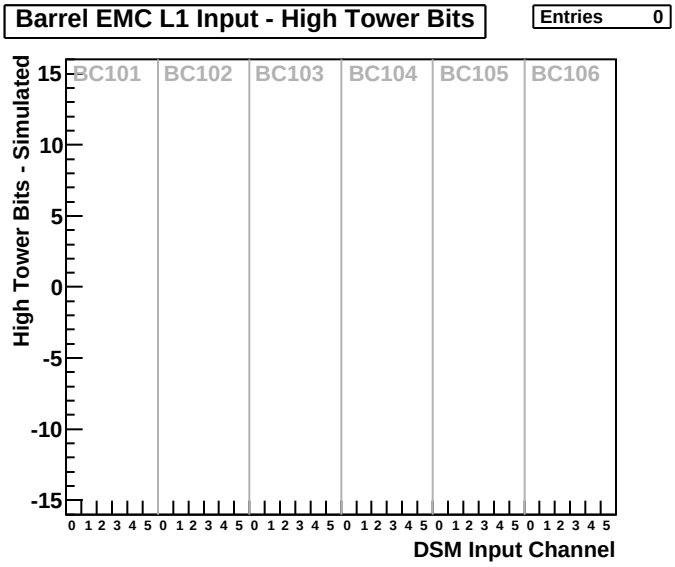

Barrel EMC L1 Input - Low Eta Sum
Entries 1.856084e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

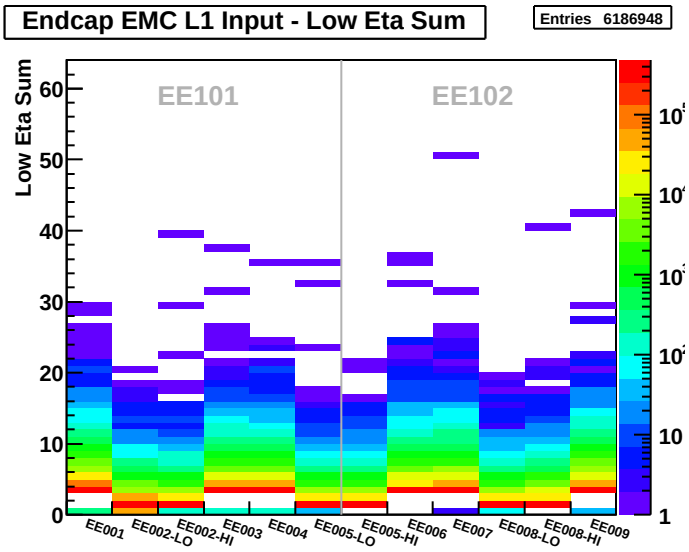

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

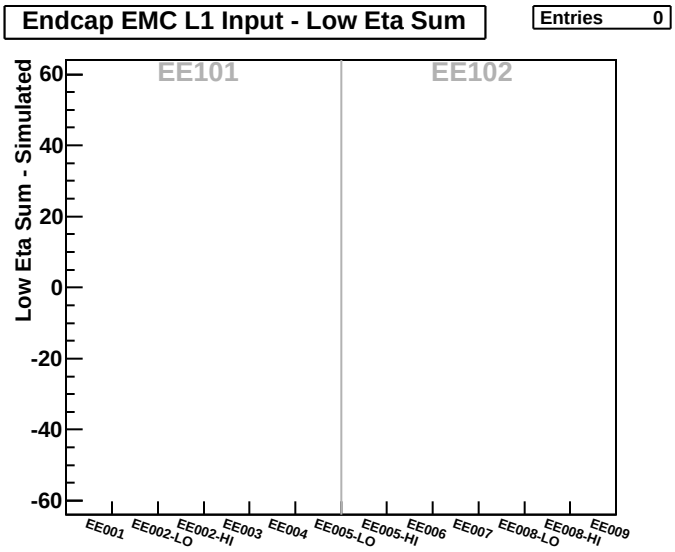

Barrel EMC L1 Input - High Eta Sum
Entries 1.856084e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

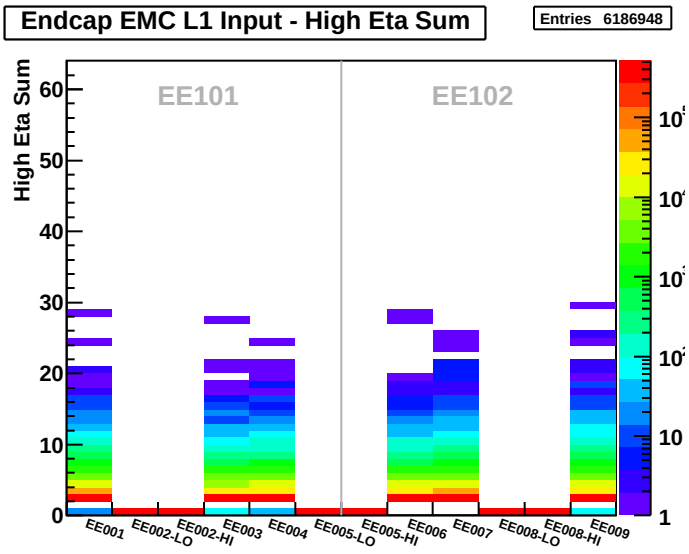

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

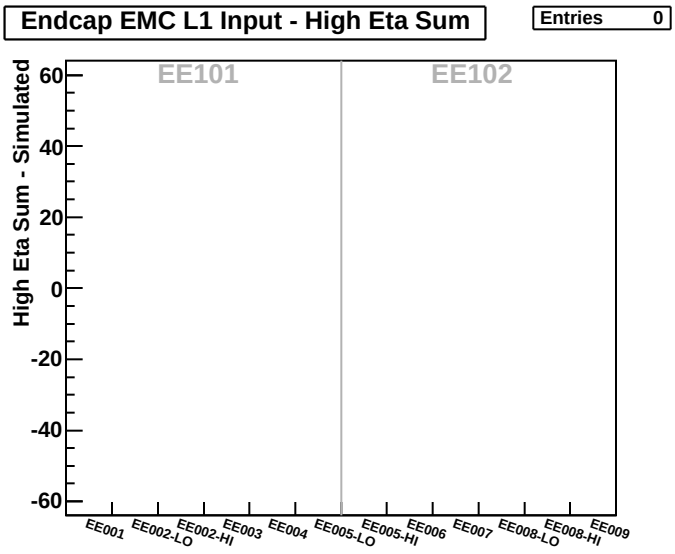

Barrel EMC L1 Input - High Tower Bits
Entries 1.856084e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

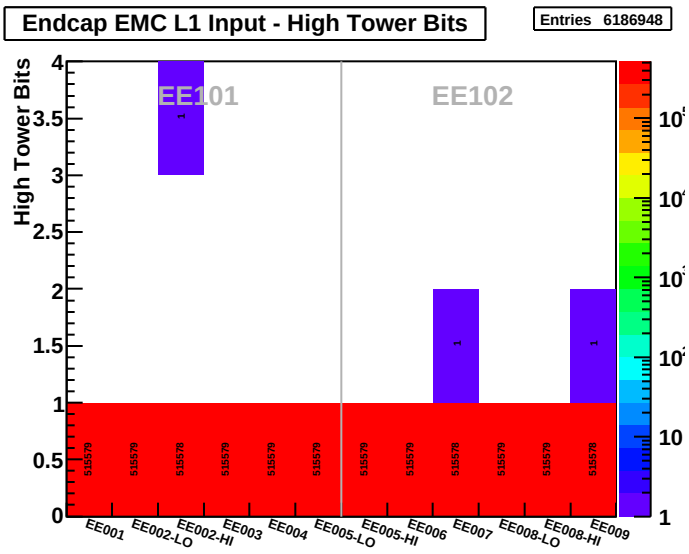

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

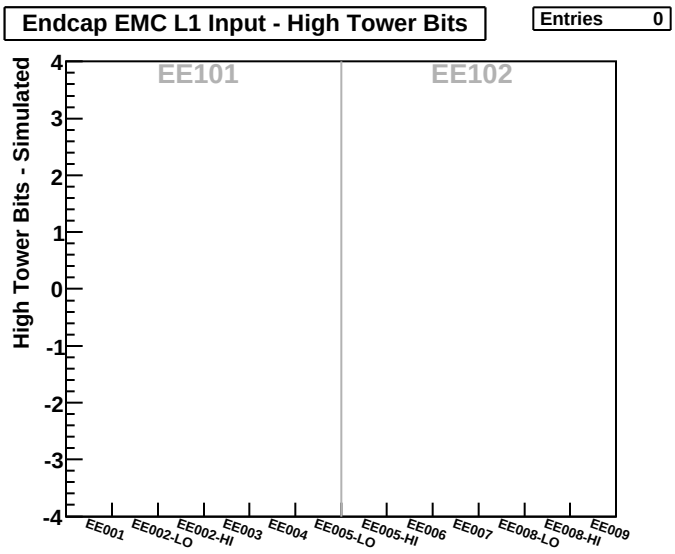

Endcap EMC L1 Input - Low Eta Sum
Entries 6186948
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

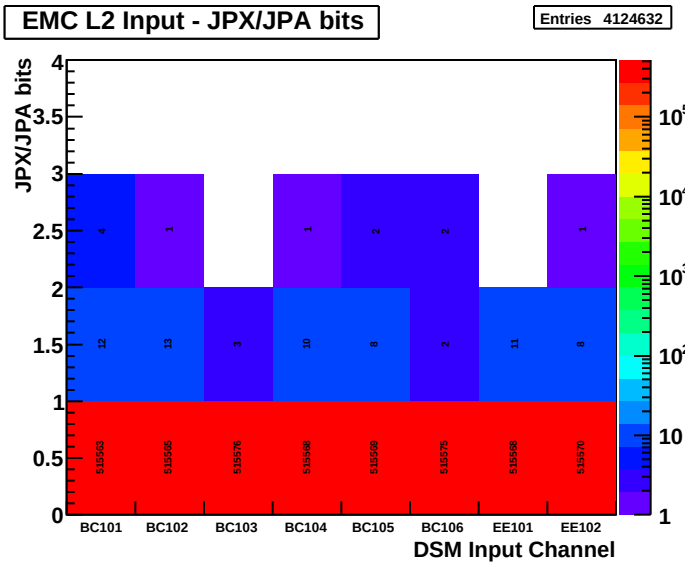

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

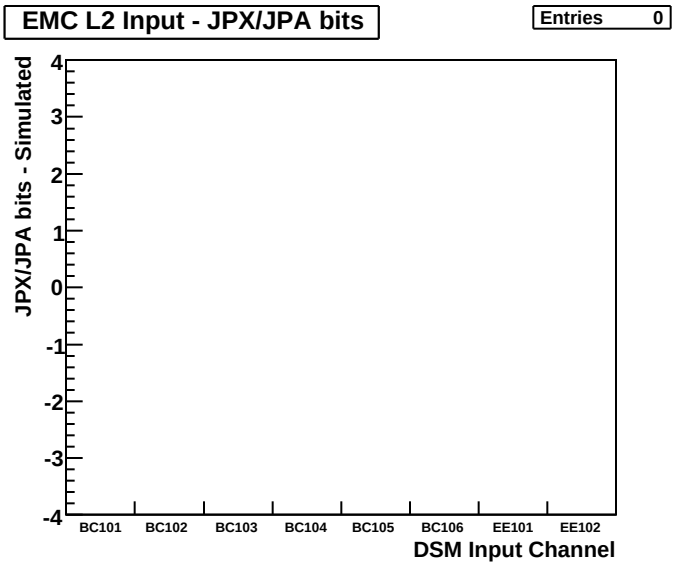

Endcap EMC L1 Input - High Eta Sum
Entries 6186948
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

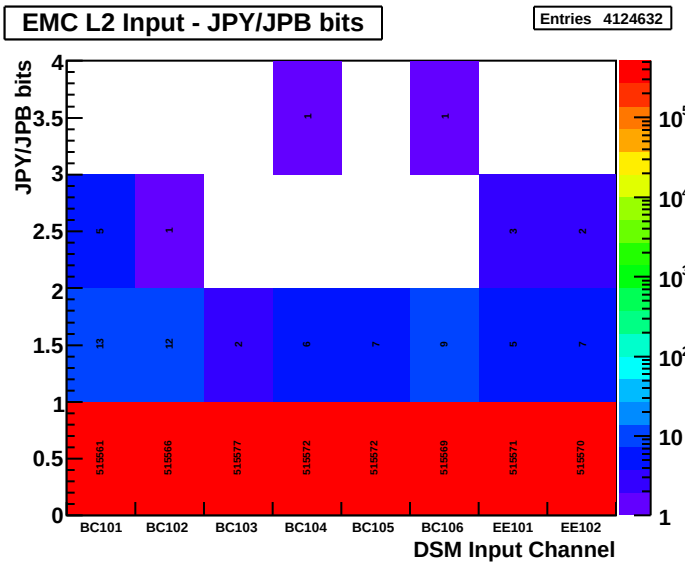

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

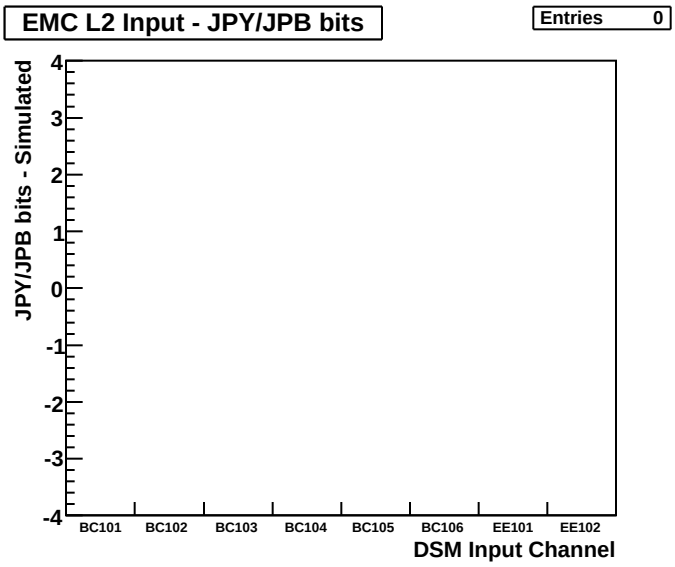

Endcap EMC L1 Input - High Tower Bits
Entries 6186948
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

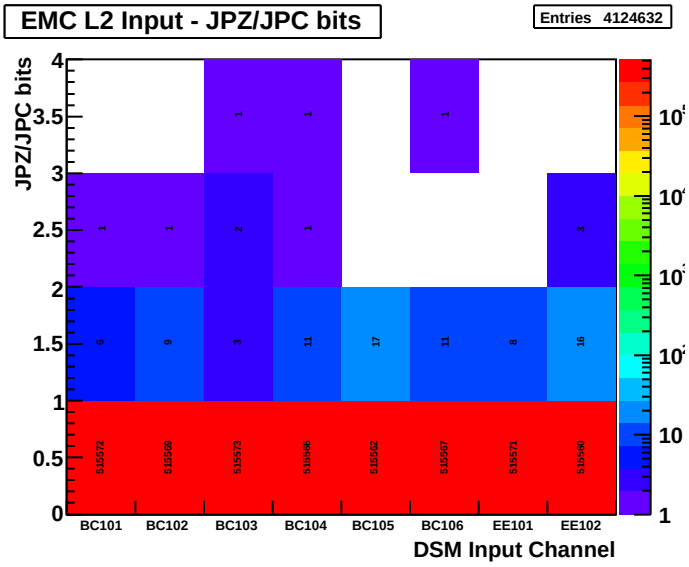

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

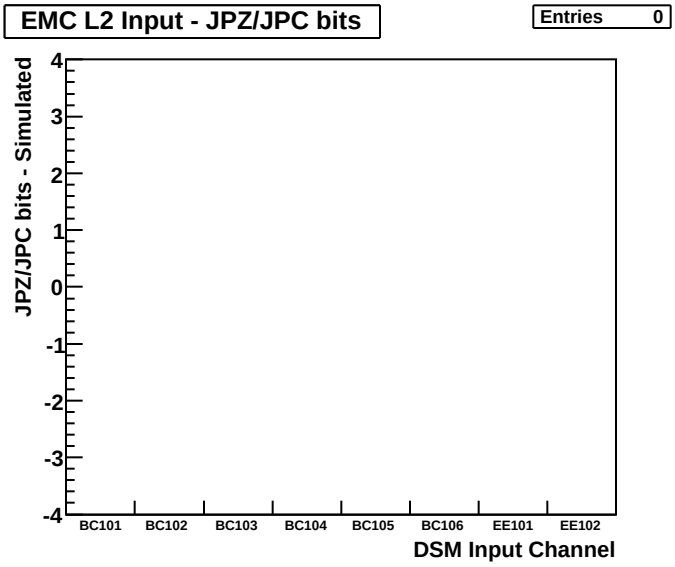

EMC L2 Input - JPX/JPA bits
Entries 4124632
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

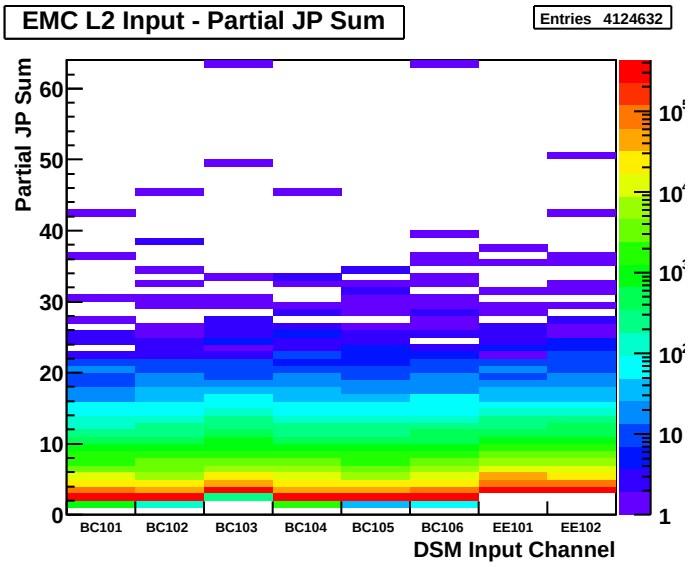

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

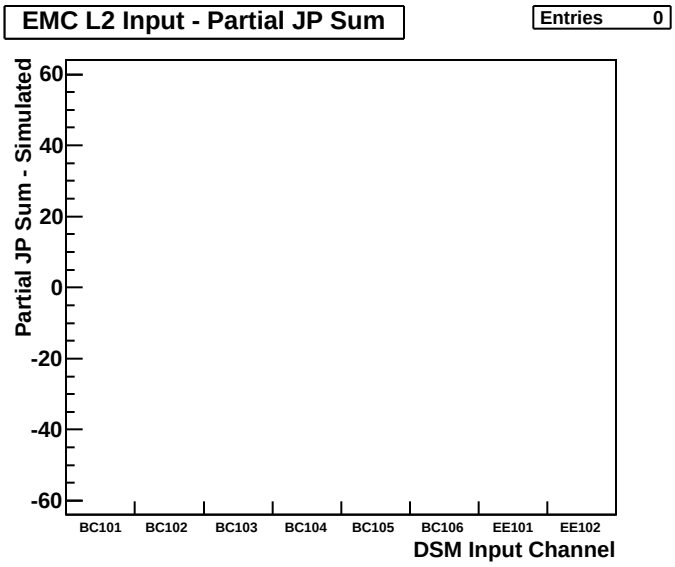

EMC L2 Input - JPY/JPB bits
Entries 4124632
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

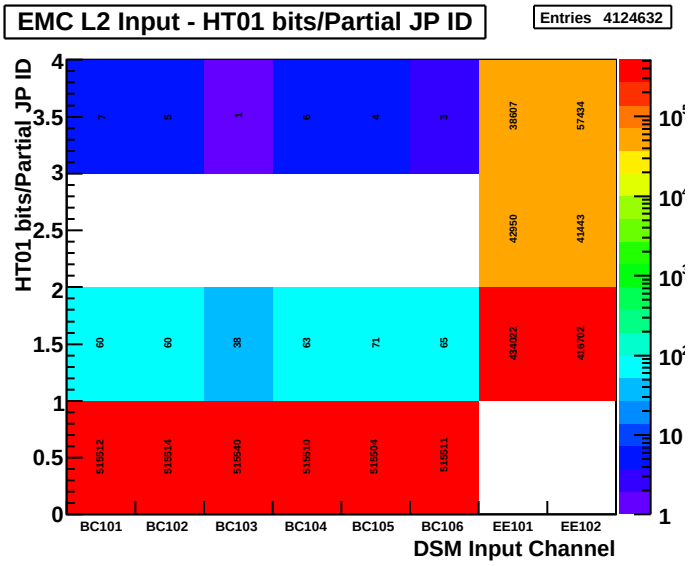

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

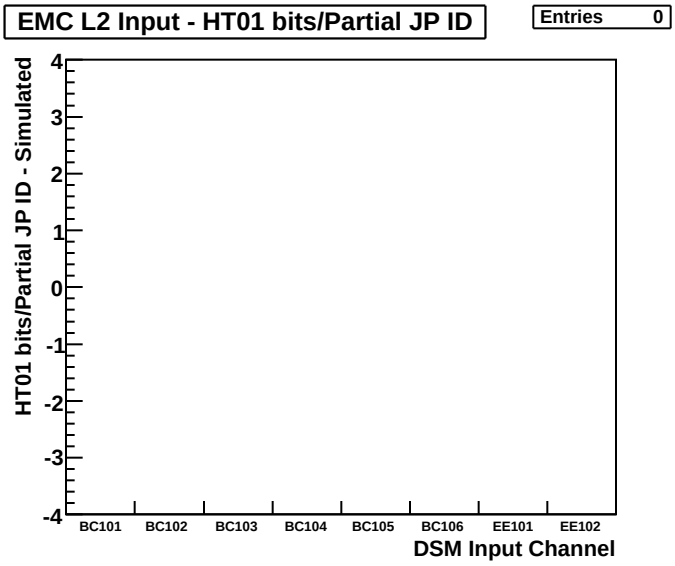

EMC L2 Input - JPZ/JPC bits
Entries 4124632
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

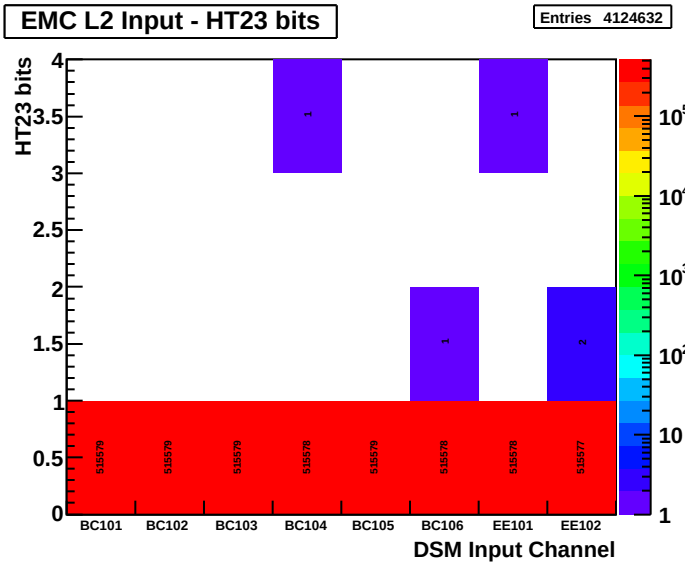

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

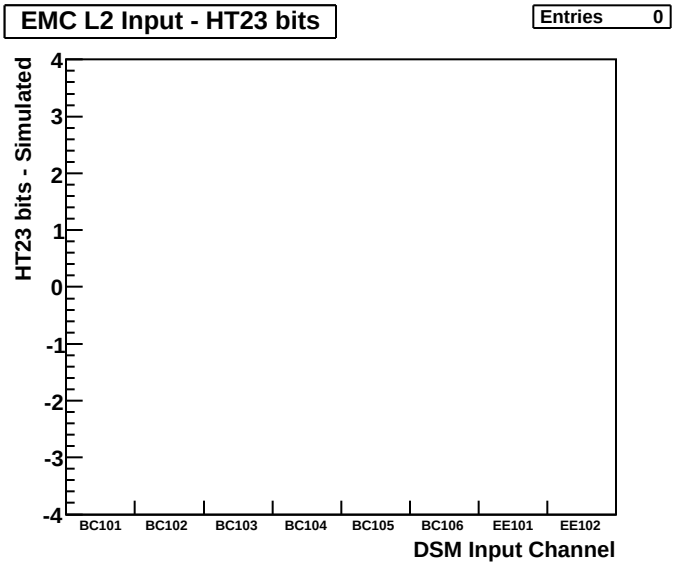

EMC L2 Input - Partial JP Sum
Entries 4124632
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

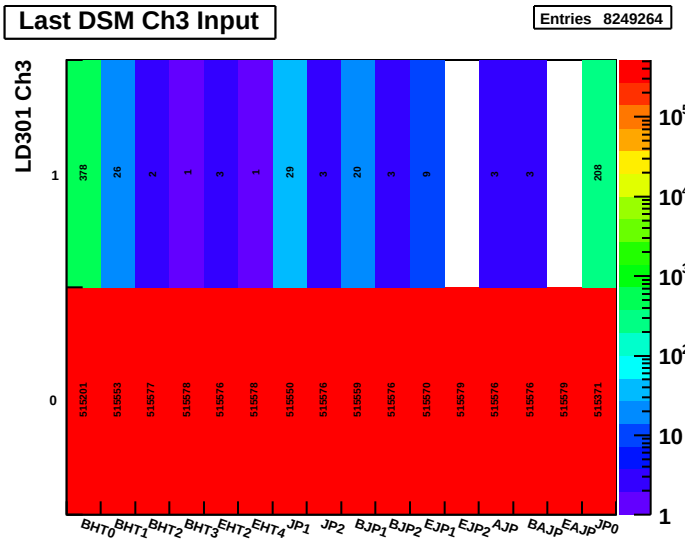

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

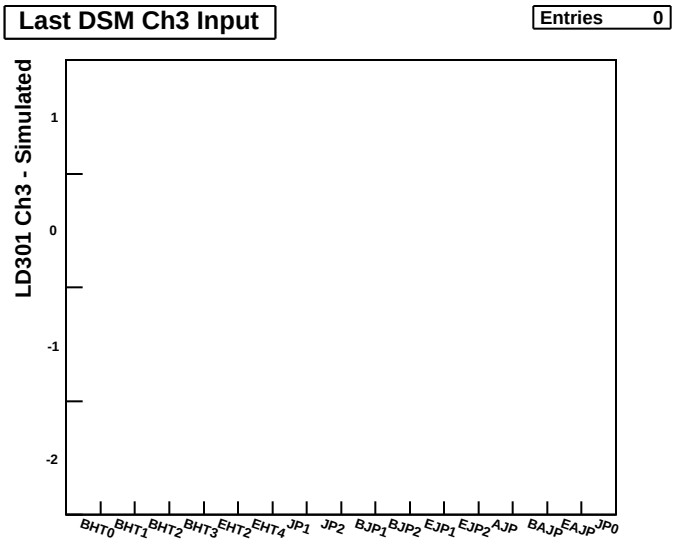

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4124632
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

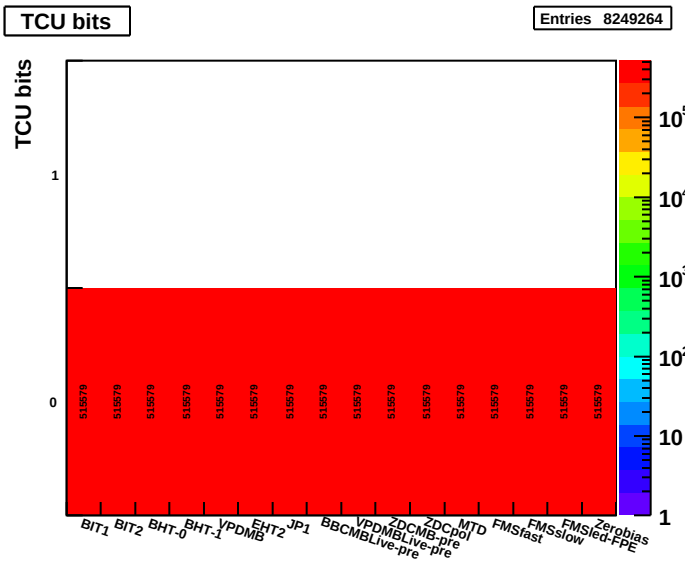

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

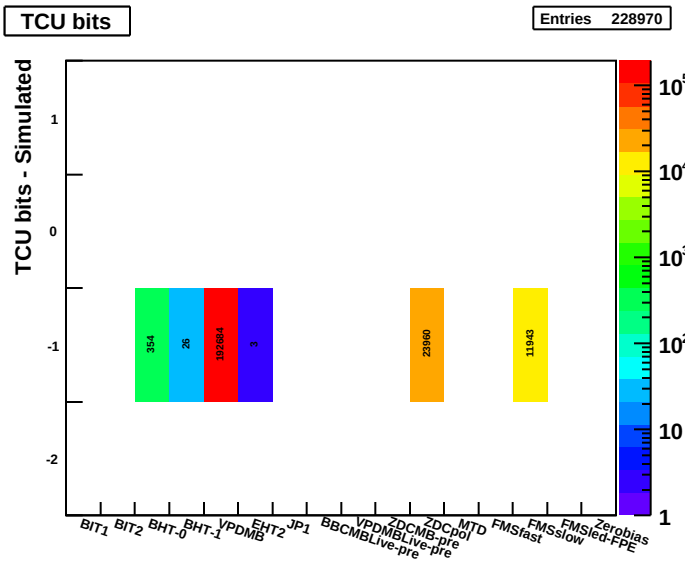

EMC L2 Input - HT23 bits
Entries 4124632
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

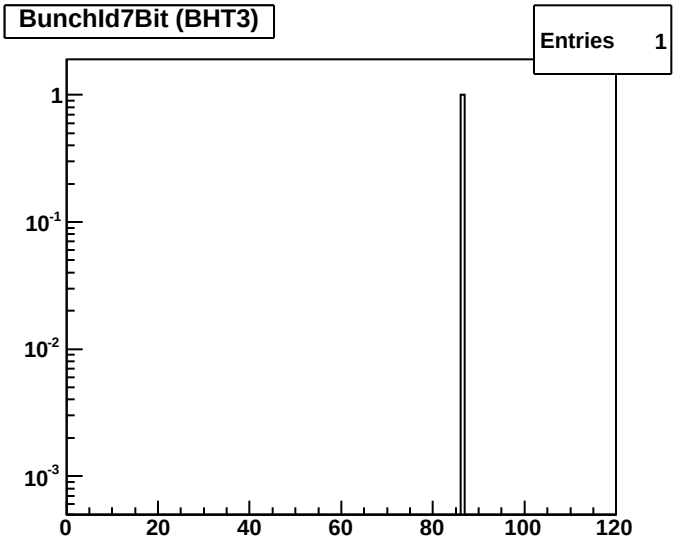

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

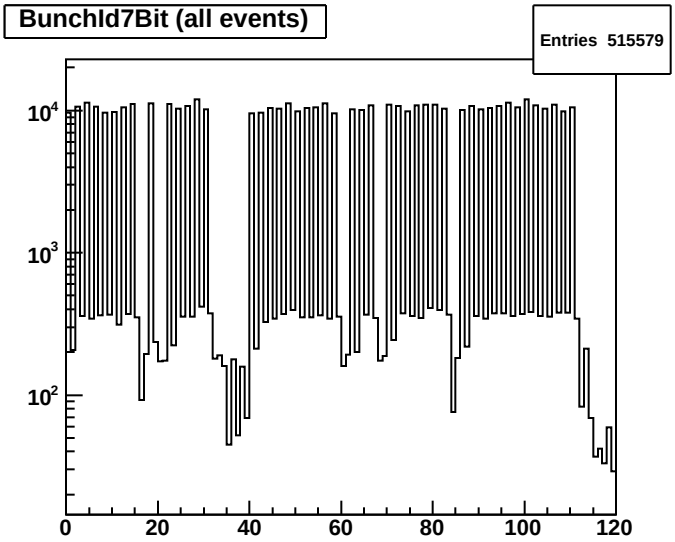

Last DSM Ch3 Input
Entries 8249264
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

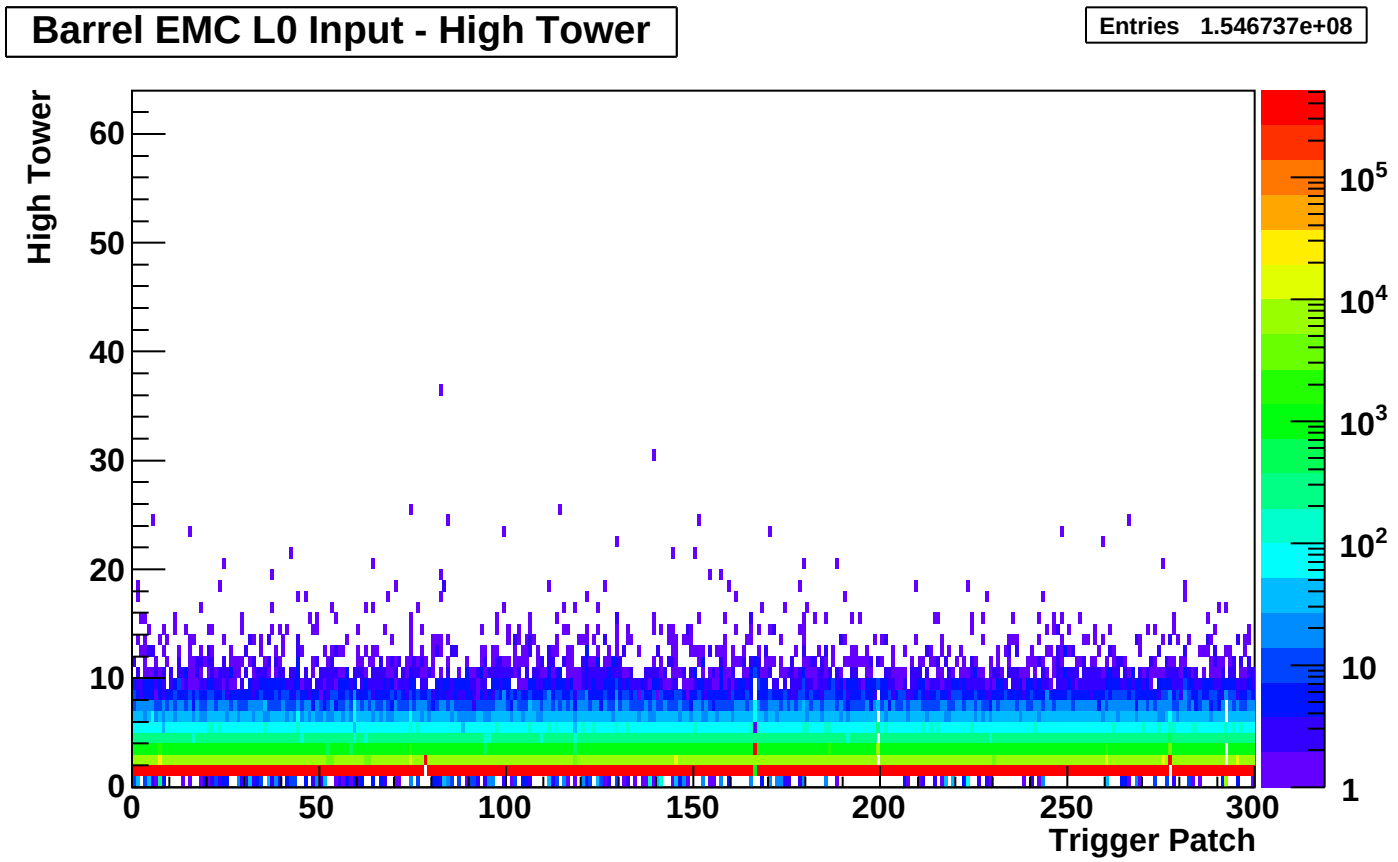

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

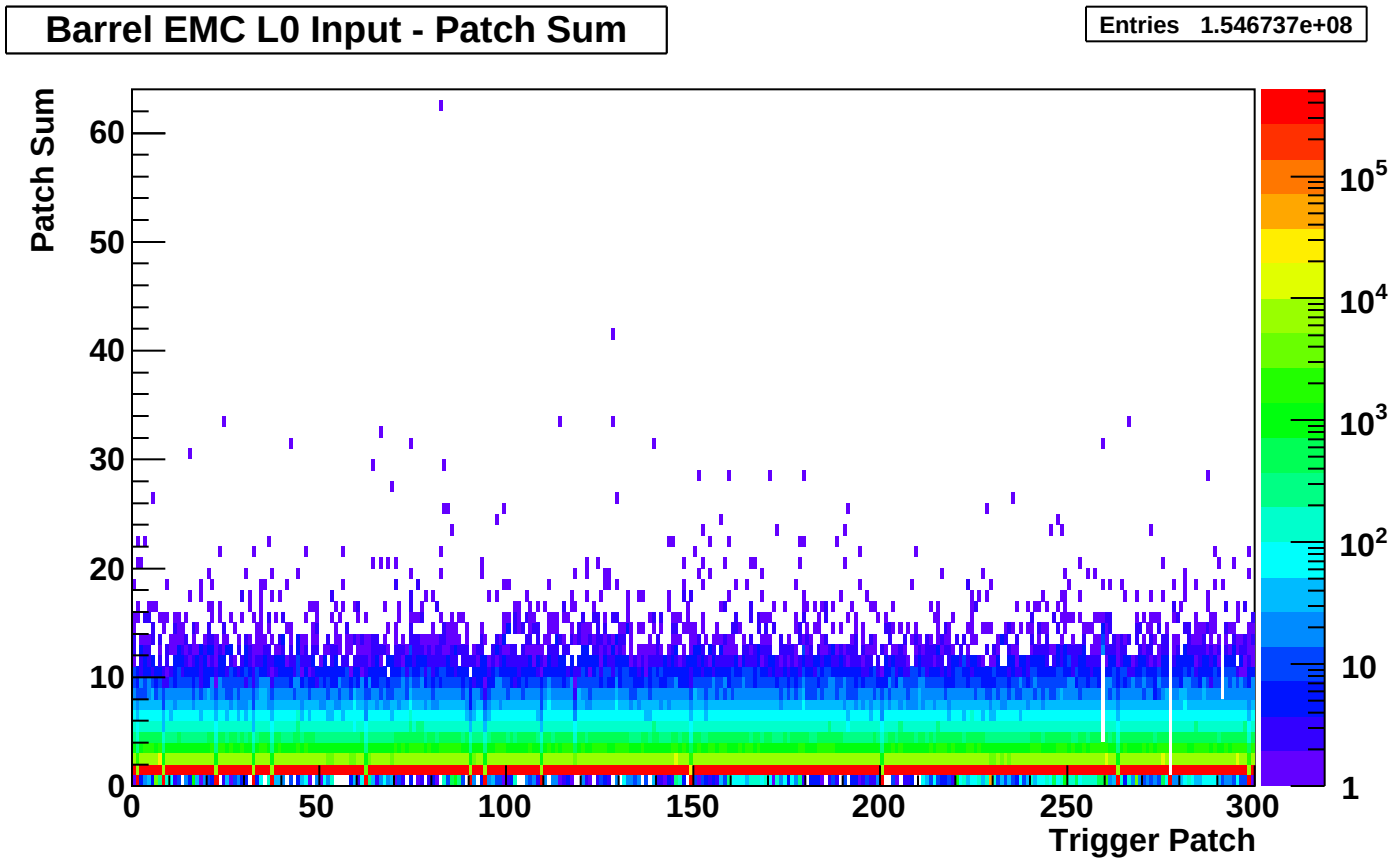

TCU bits
Entries 8249264
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

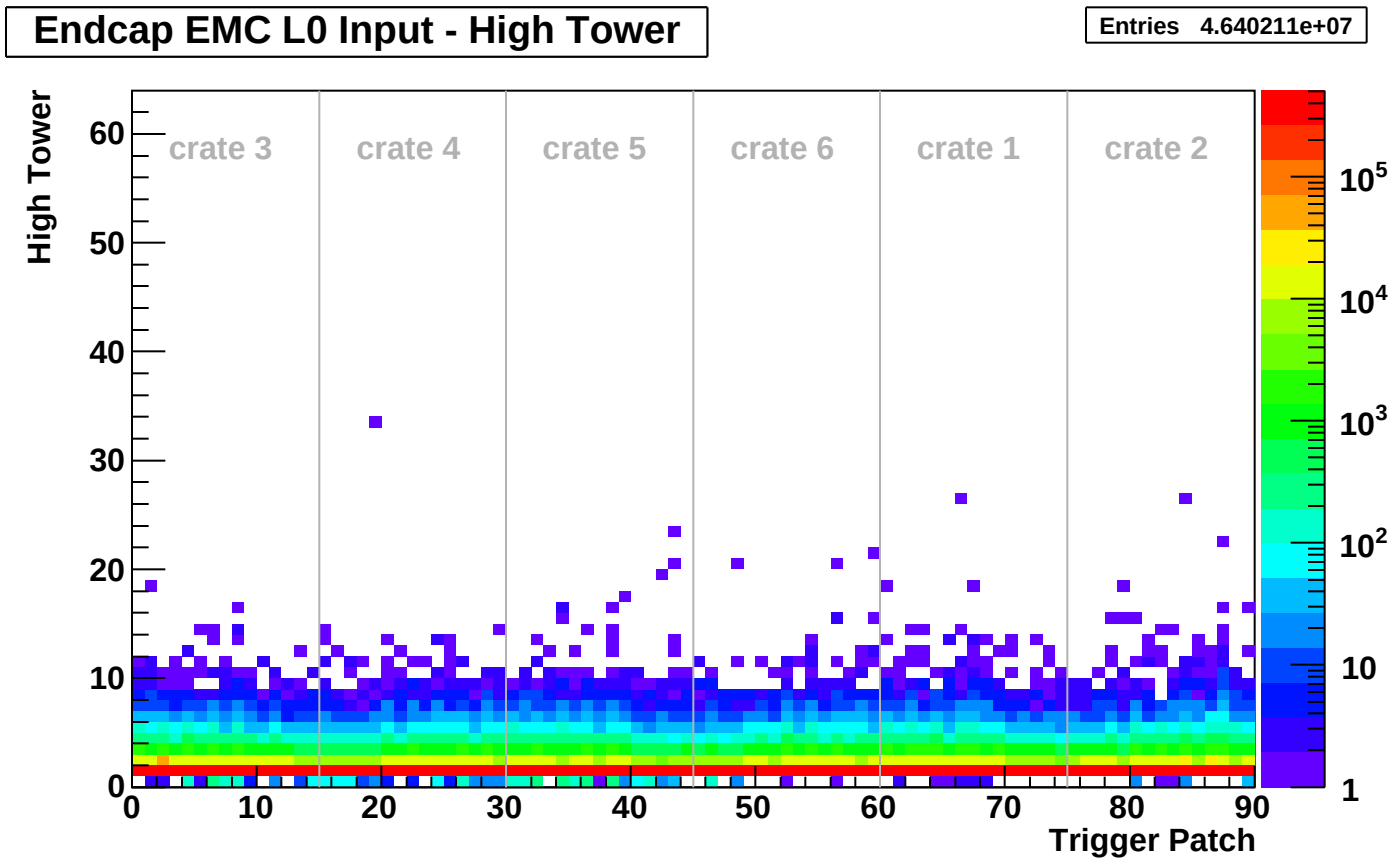

TCU bits
Entries 228970
TCU bits - Simulated
354
26
192684
3
23960
11943
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

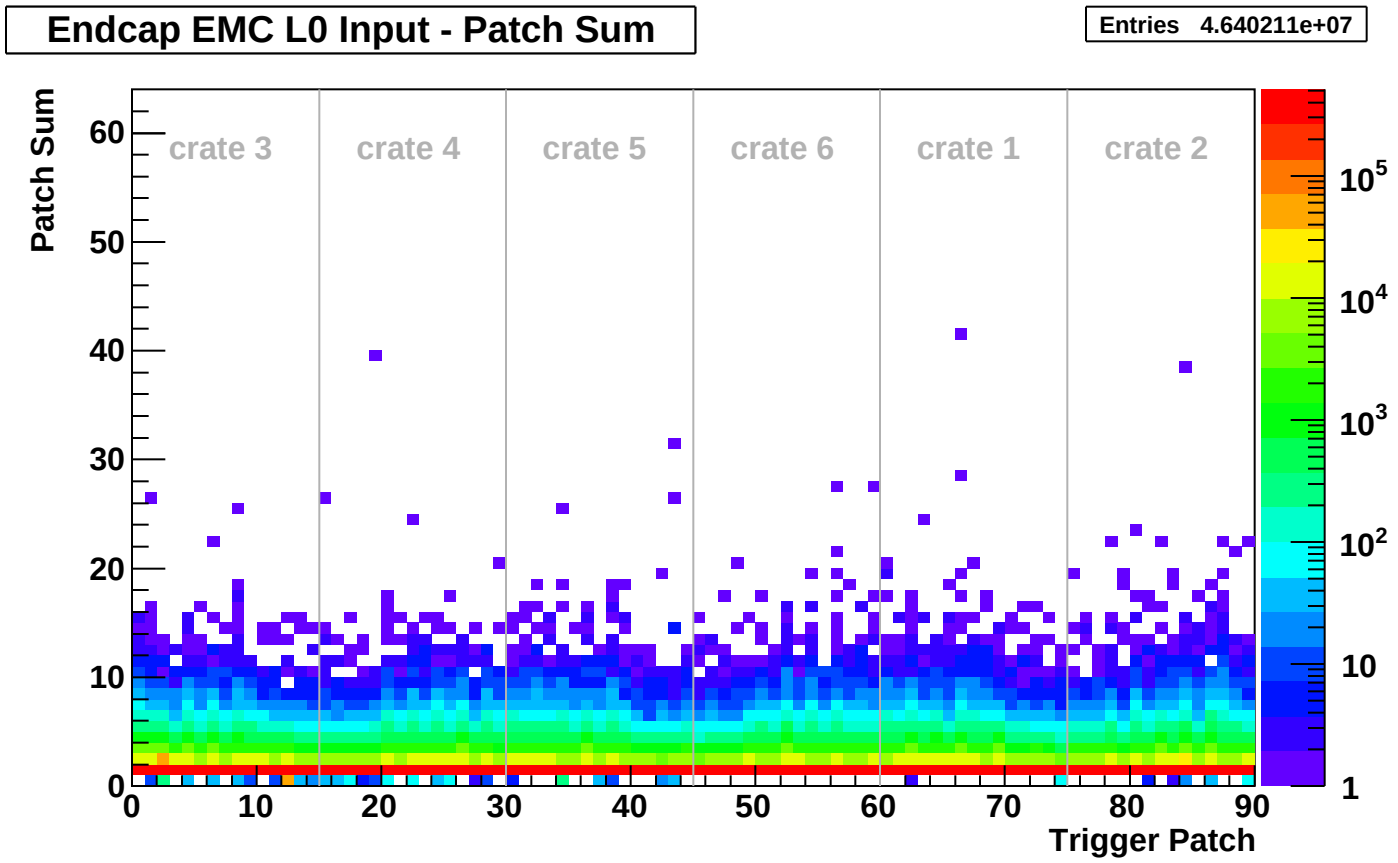

BunchId7Bit (BHT3)
Entries 1

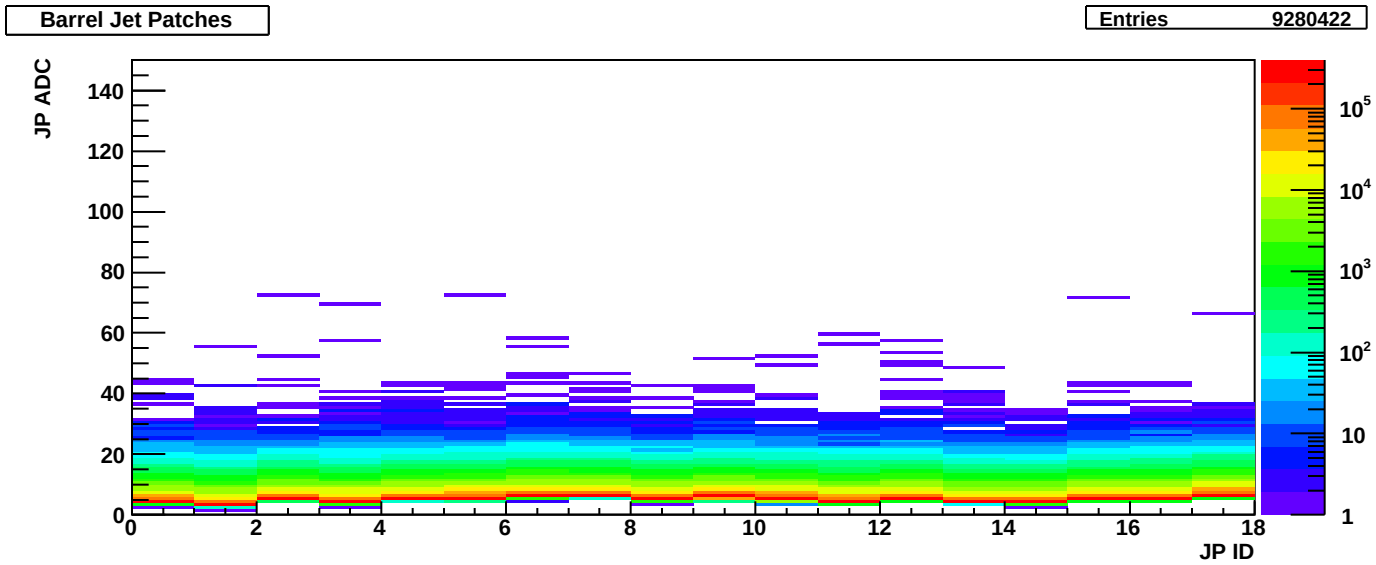

BunchId7Bit (all events)
Entries 515579

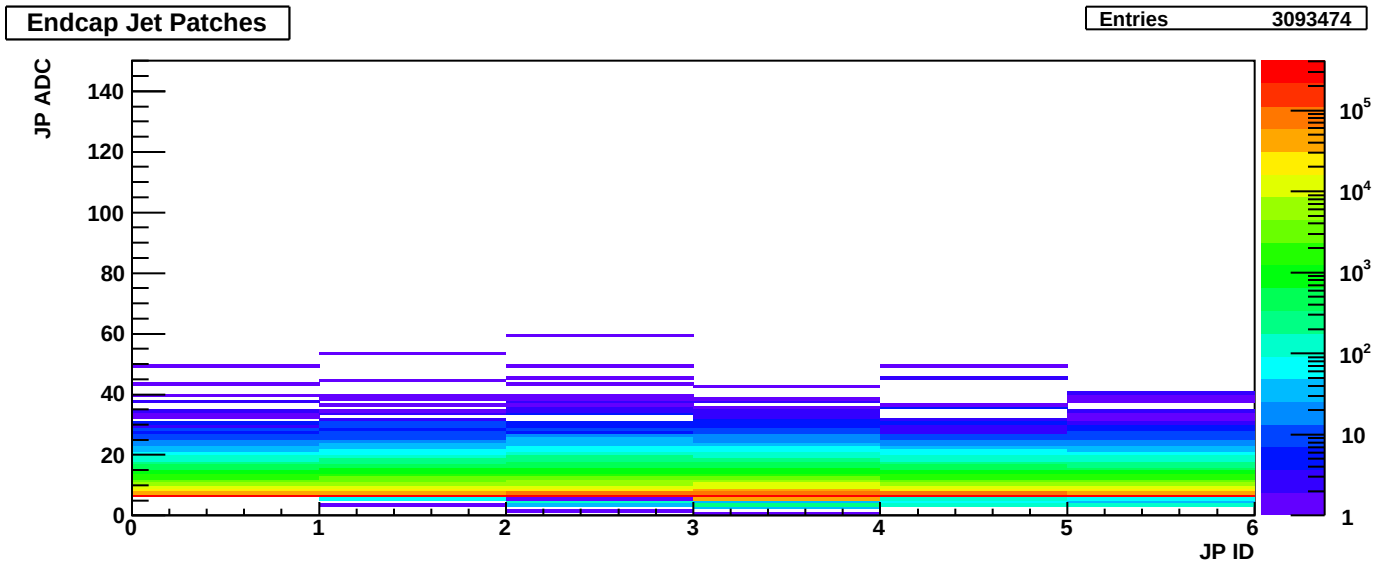

Barrel EMC L0 Input - High Tower
Entries 1.546737e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

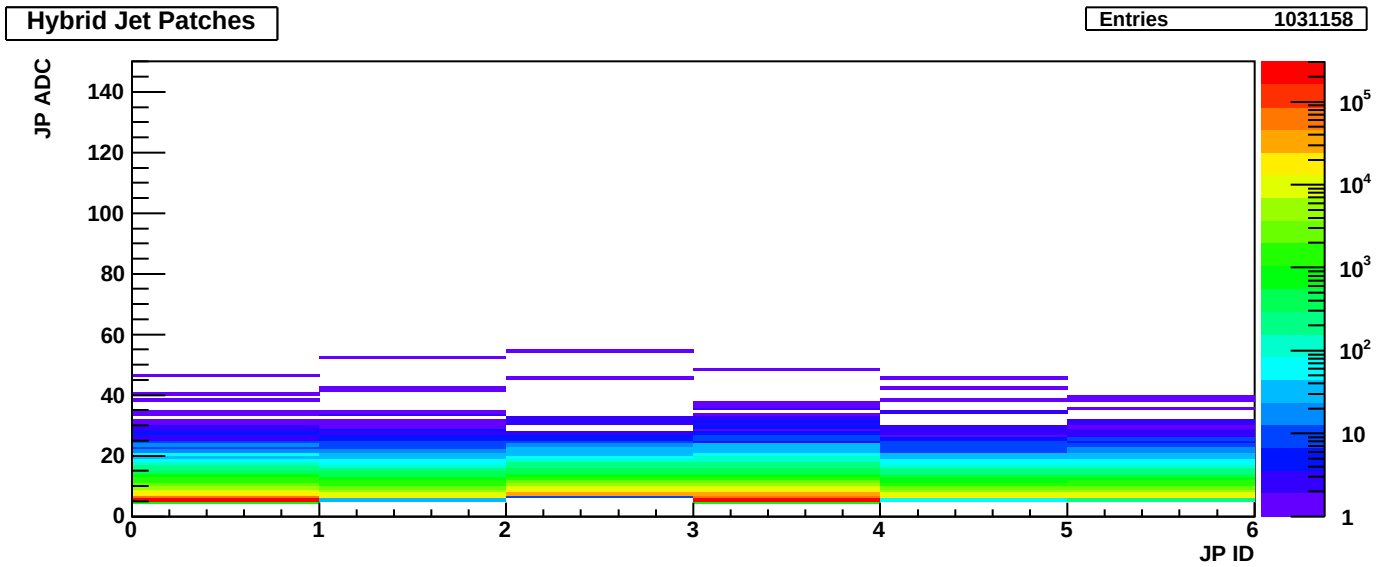

Barrel EMC L0 Input - Patch Sum
Entries 1.546737e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

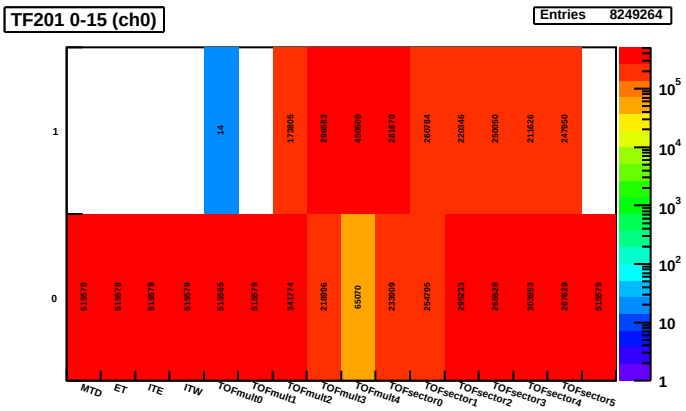

Endcap EMC L0 Input - High Tower
Entries 4.640211e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

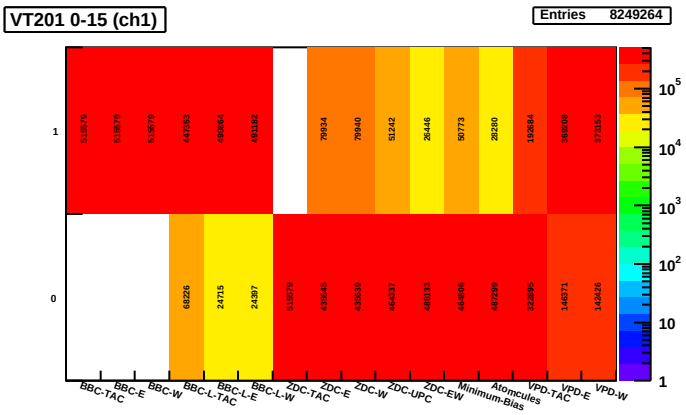

Endcap EMC L0 Input - Patch Sum
Entries 4.640211e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

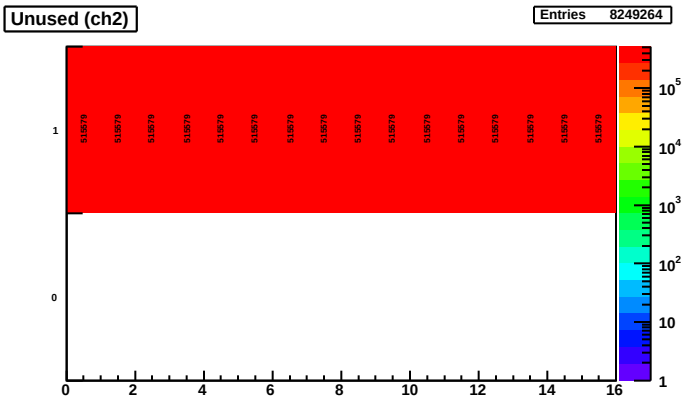

Barrel Jet Patches
Entries 9280422
JP ADC
JP ID

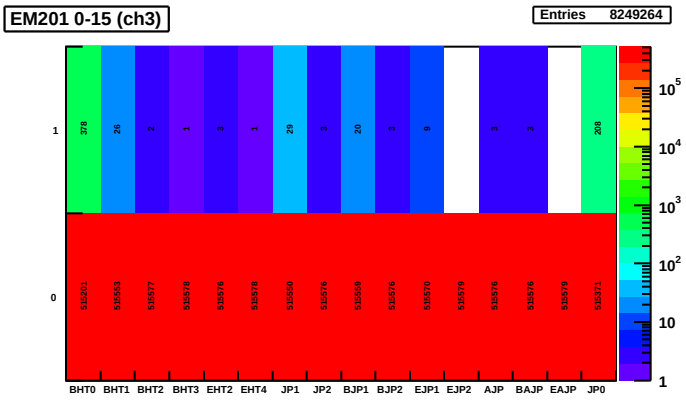

Endcap Jet Patches
Entries 3093474
JP ADC
JP ID

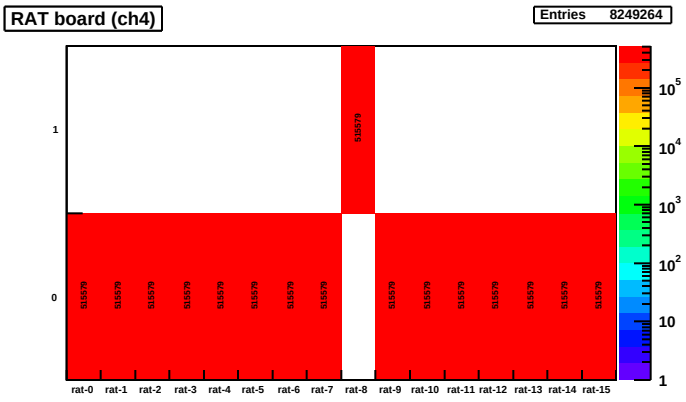

Hybrid Jet Patches
Entries 1031158
JP ADC
JP ID

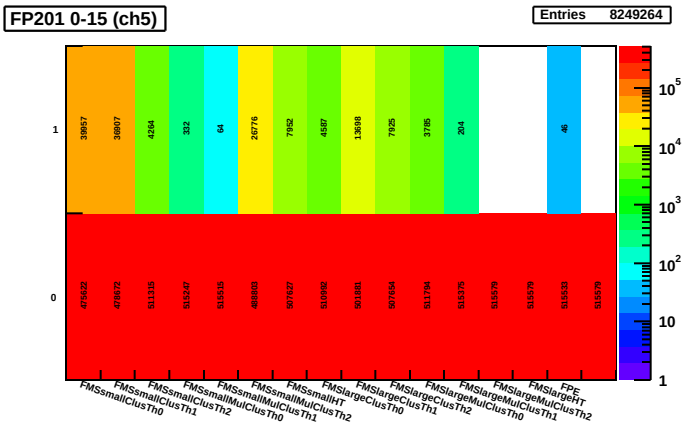

TF201 0-15 (ch0)
Entries 8249264
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

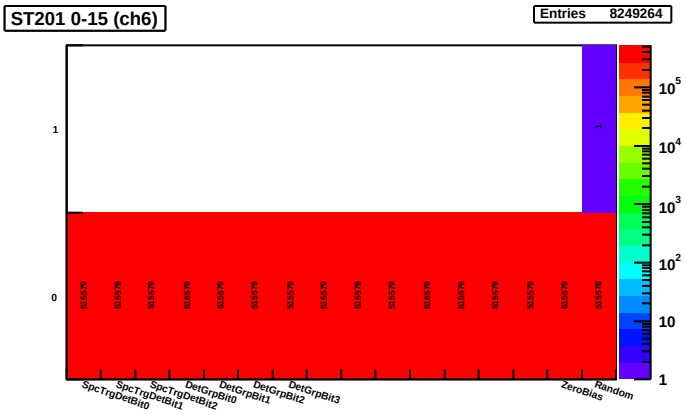

VT201 0-15 (ch1)
Entries 8249264
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

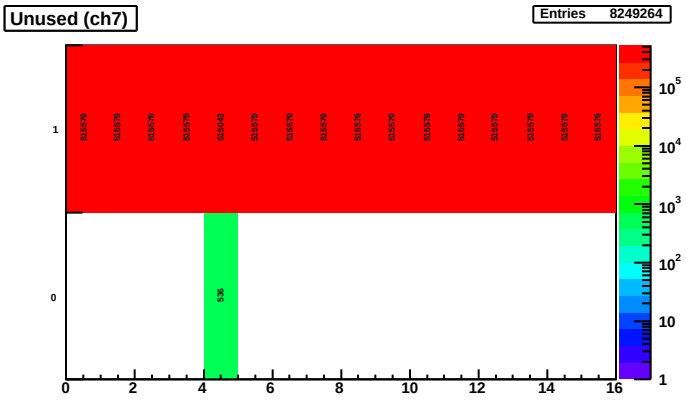

Unused (ch2)
Entries 8249264

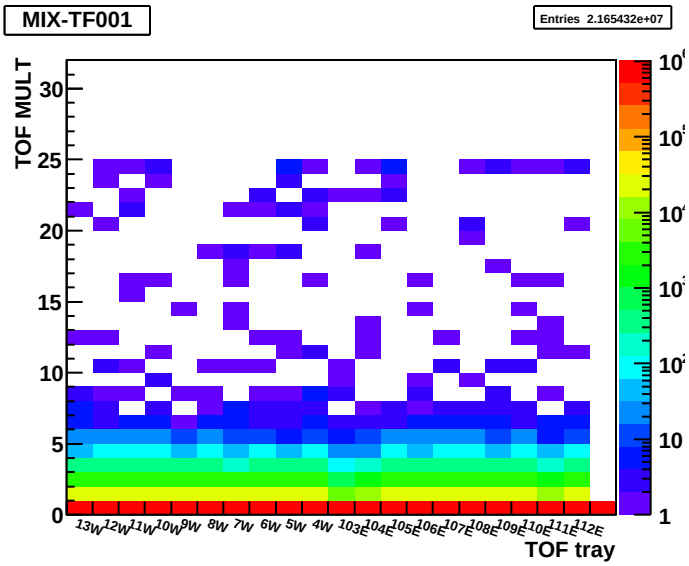

EM201 0-15 (ch3)
Entries 8249264
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

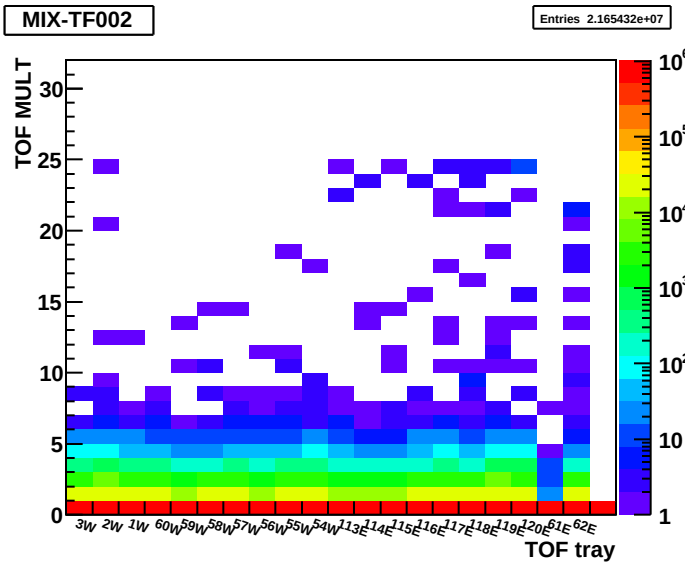

RAT board (ch4)
Entries 8249264
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

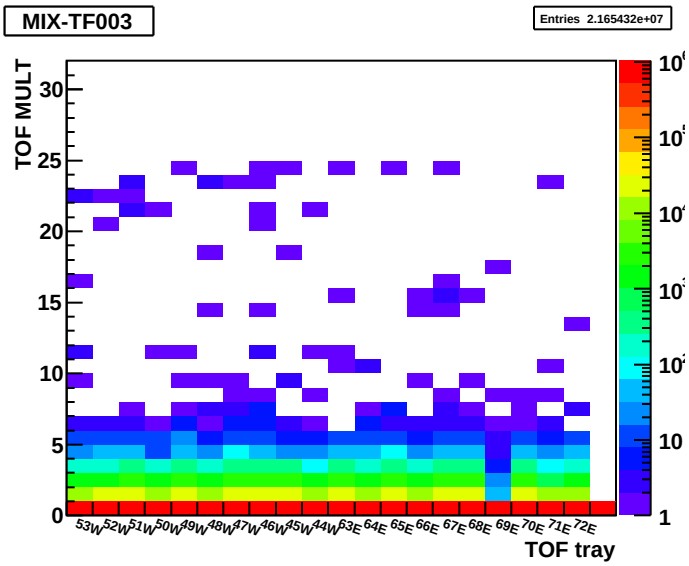

FP201 0-15 (ch5)
Entries 8249264
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

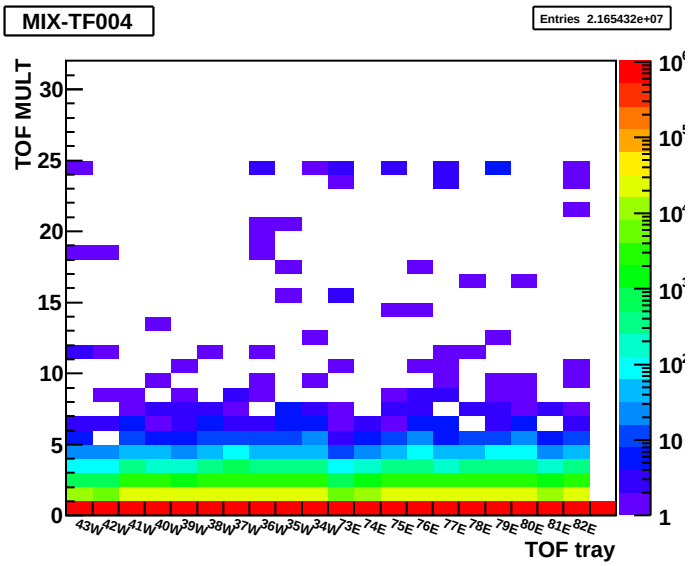

ST201 0-15 (ch6)
Entries 8249264
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetCrpBit0 DetCrpBit1 DetCrpBit2 DetCrpBit3 ZeroBias Random

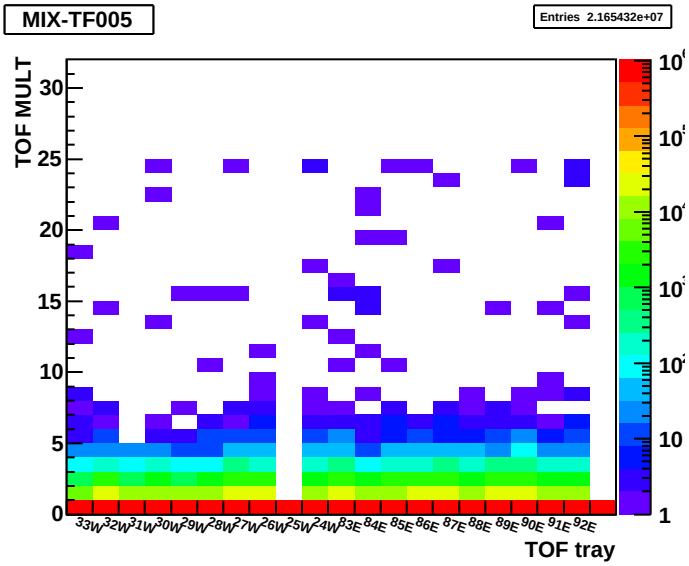

Unused (ch7)
Entries 8249264

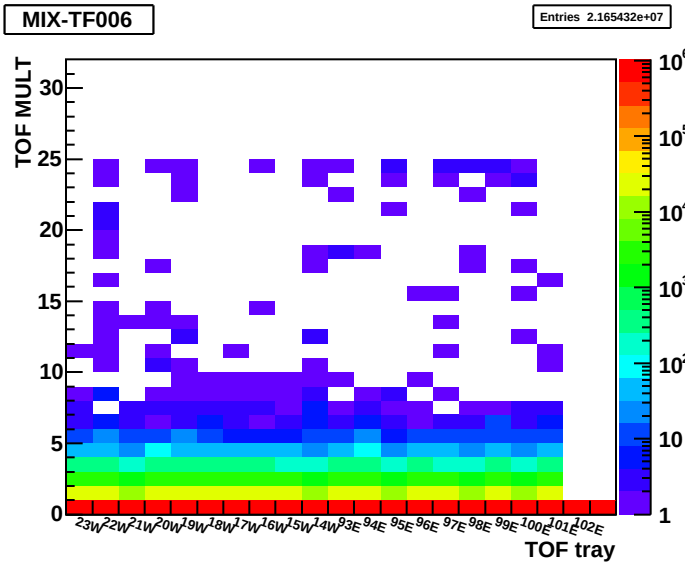

MIX-TF001
Entries 2.165432e+07
TOF MULT
TOF tray

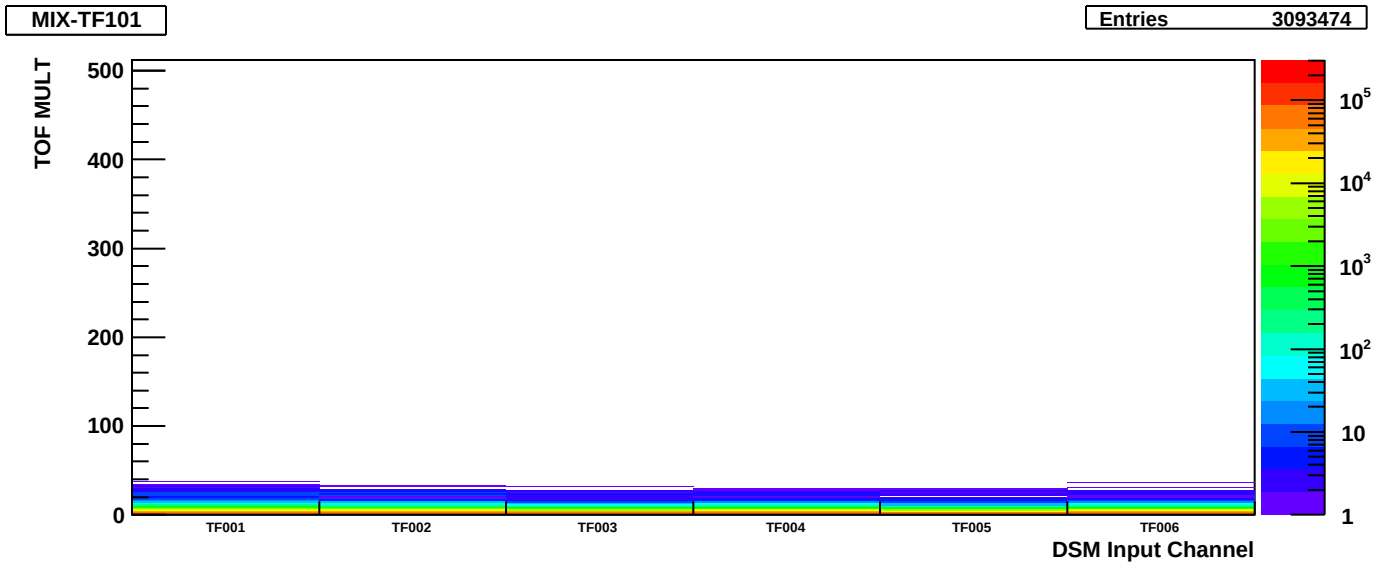

MIX-TF002
Entries 2.165432e+07
TOF MULT
TOF tray

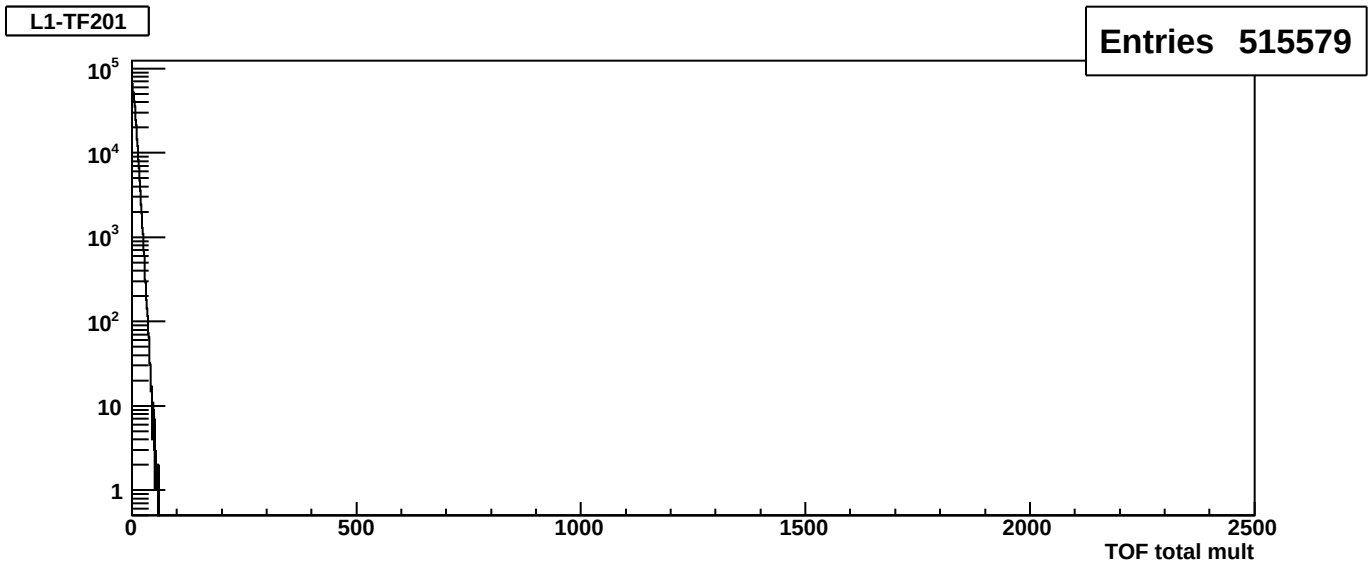

MIX-TF003
Entries 2.165432e+07
TOF MULT
TOF tray

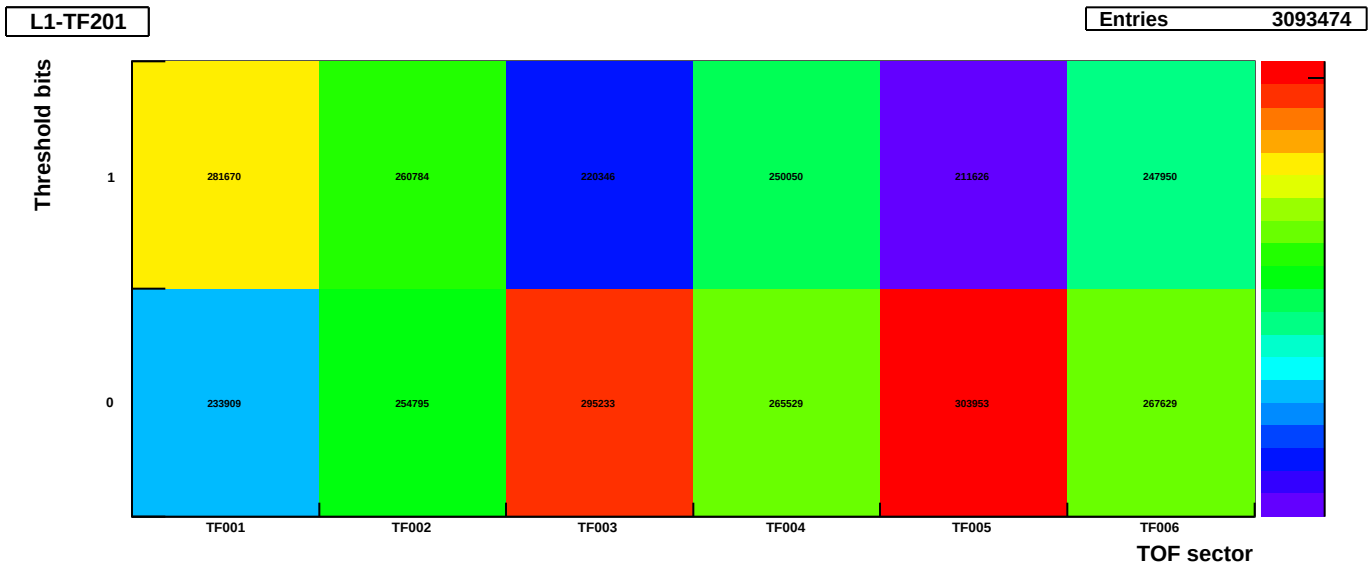

MIX-TF004
Entries 2.165432e+07
TOF MULT
TOF tray

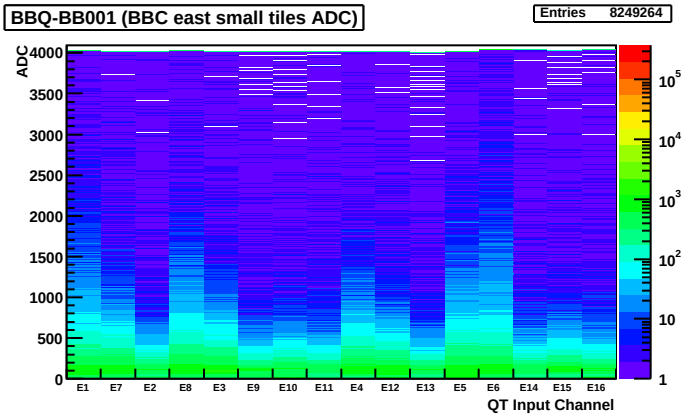

MIX-TF005
Entries 2.165432e+07
TOF MULT
TOF tray

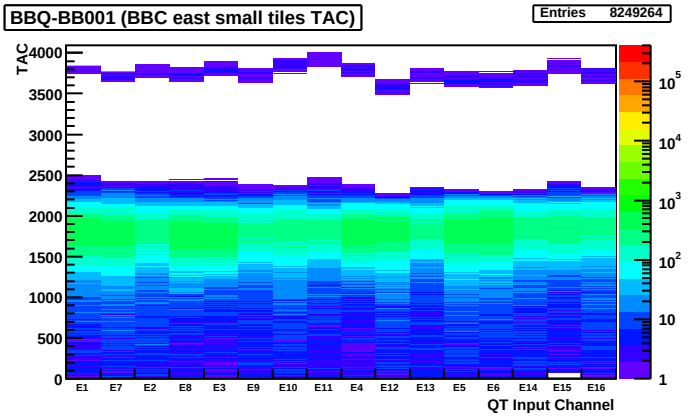

MIX-TF006
Entries 2.165432e+07
TOF MULT
TOF tray

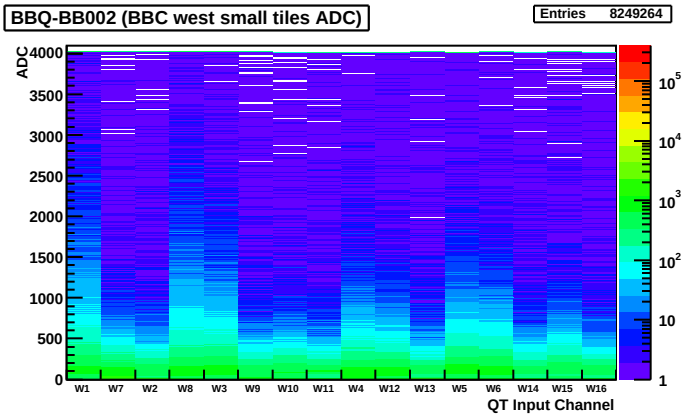

MIX-TF101
Entries 3093474
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

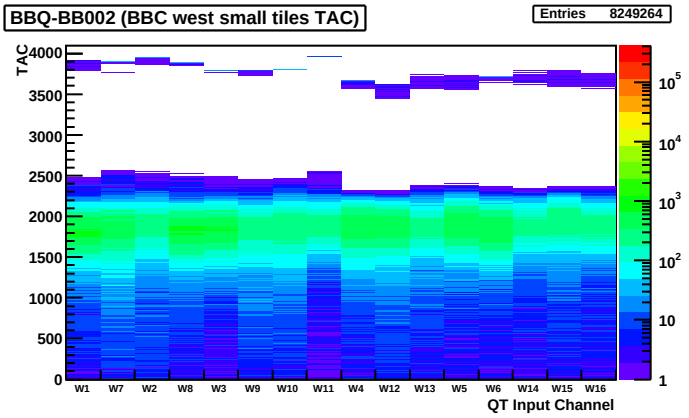

L1-TF201
Entries 515579
10^5
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

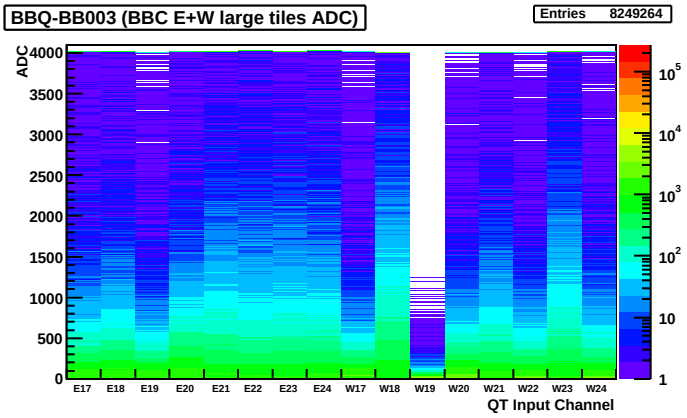

L1-TF201
Entries 3093474
Threshold bits
1
0
281670
260784
220346
250050
211626
247950
233909
254795
295233
265529
303953
267629
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

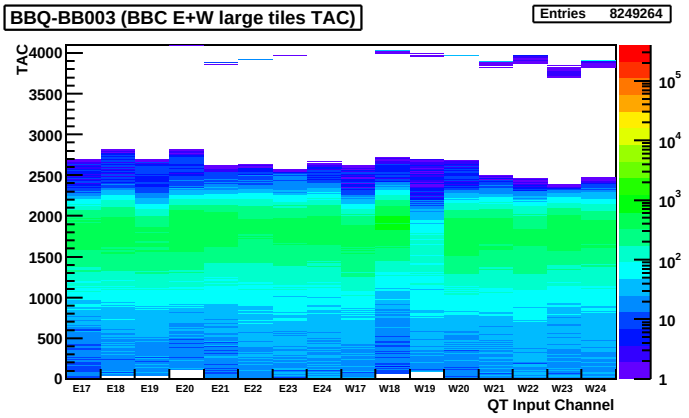

BBQ-BB001 (BBC east small tiles ADC)
Entries 8249264
ADC
QT Input Channel

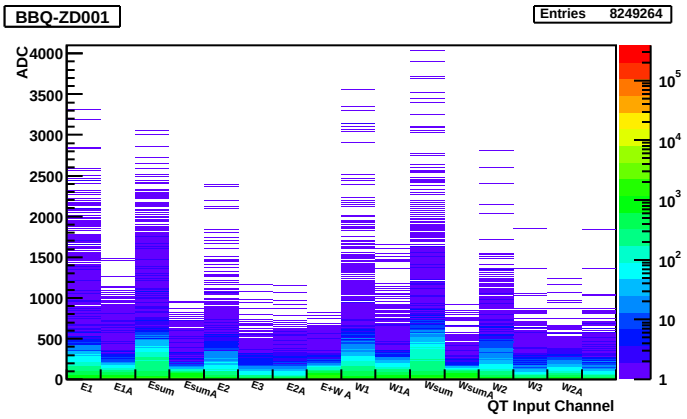

BBQ-BB001 (BBC east small tiles TAC)
Entries 8249264
TAC
QT Input Channel

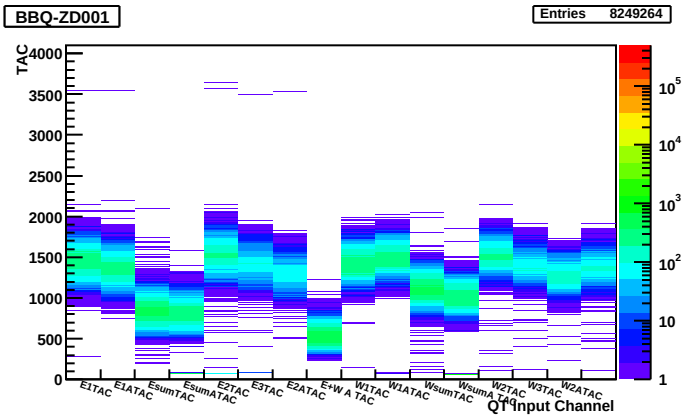

BBQ-BB002 (BBC west small tiles ADC)
Entries 8249264
ADC
QT Input Channel

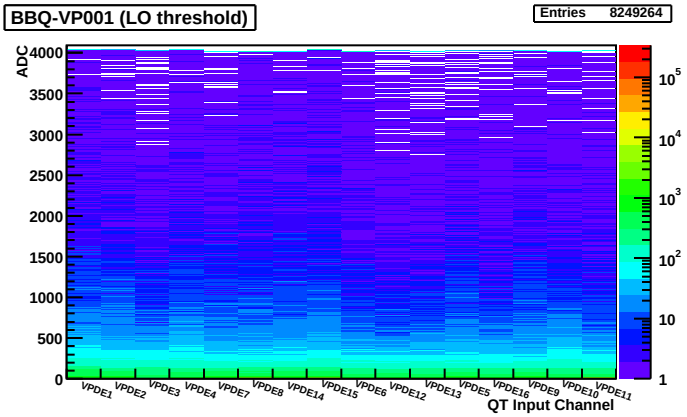

BBQ-BB002 (BBC west small tiles TAC)
Entries 8249264
TAC
QT Input Channel

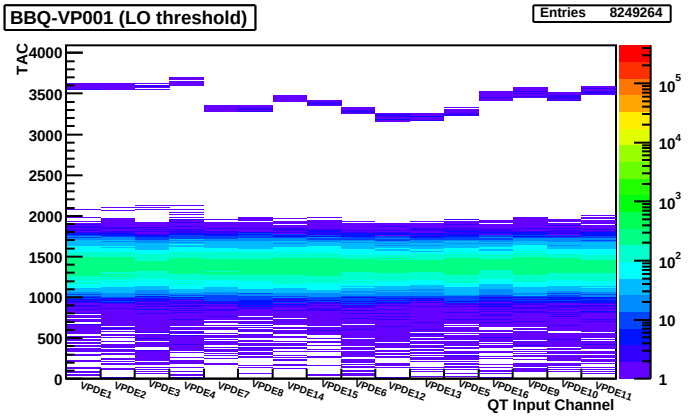

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8249264
ADC
QT Input Channel

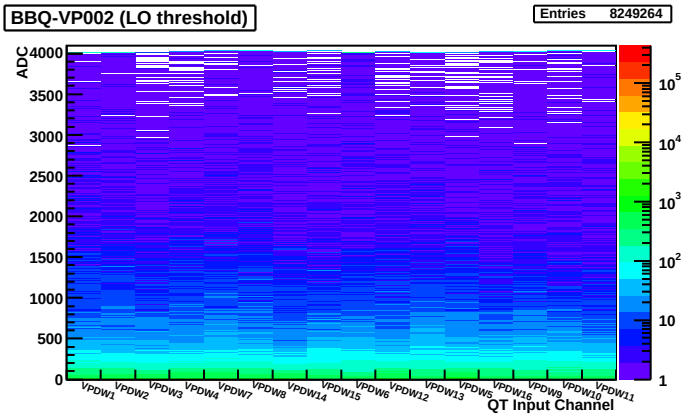

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8249264
TAC
QT Input Channel

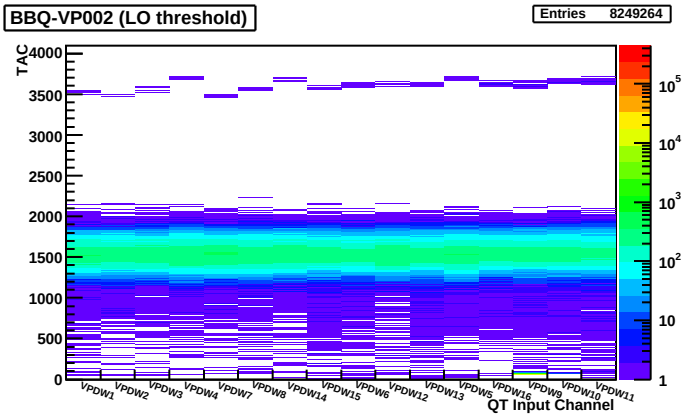

BBQ-ZD001
Entries 8249264
ADC
QT Input Channel

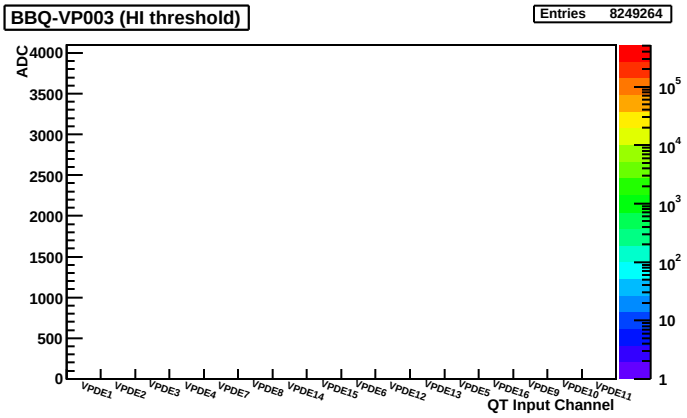

BBQ-ZD001
Entries 8249264
TAC
QT Input Channel

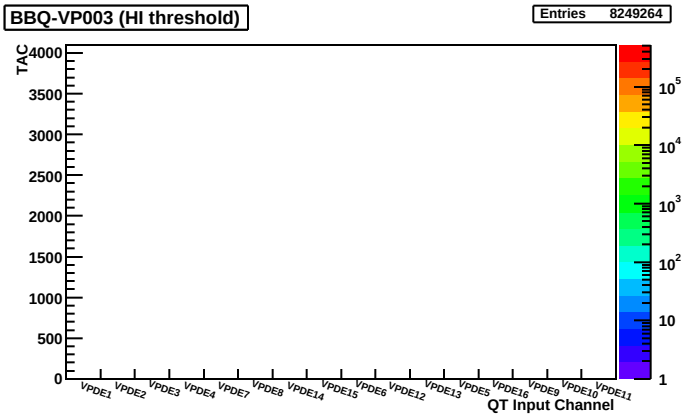

BBQ-VP001 (LO threshold)
Entries 8249264
ADC
QT Input Channel

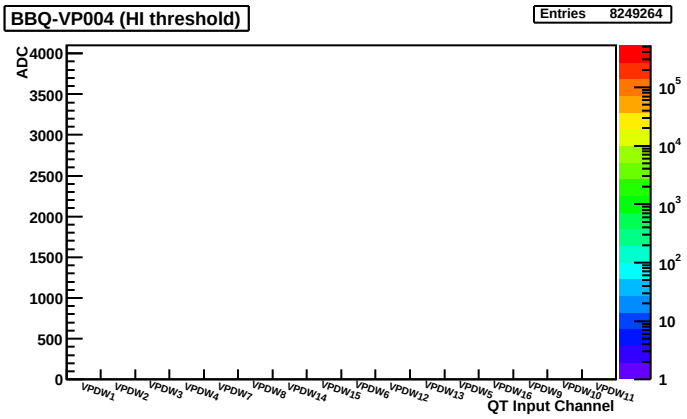

BBQ-VP001 (LO threshold)
Entries 8249264
TAC
QT Input Channel

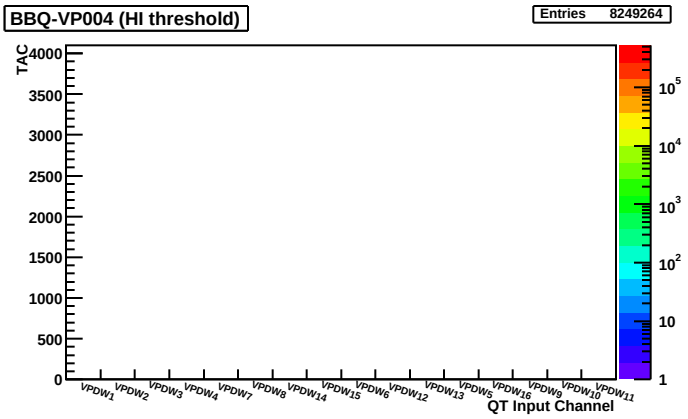

BBQ-VP002 (LO threshold)
Entries 8249264
ADC
QT Input Channel

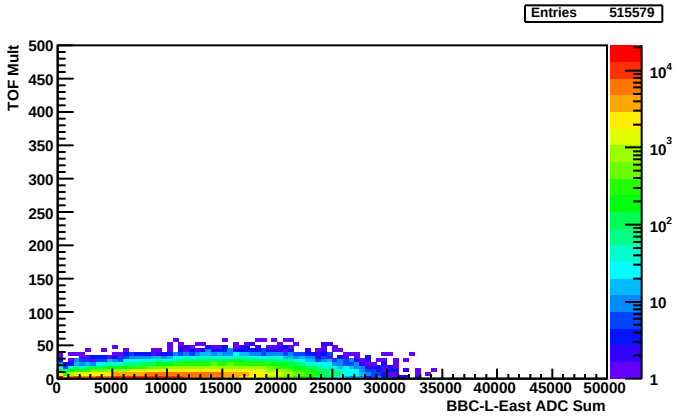

BBQ-VP002 (LO threshold)
Entries 8249264
TAC
QT Input Channel

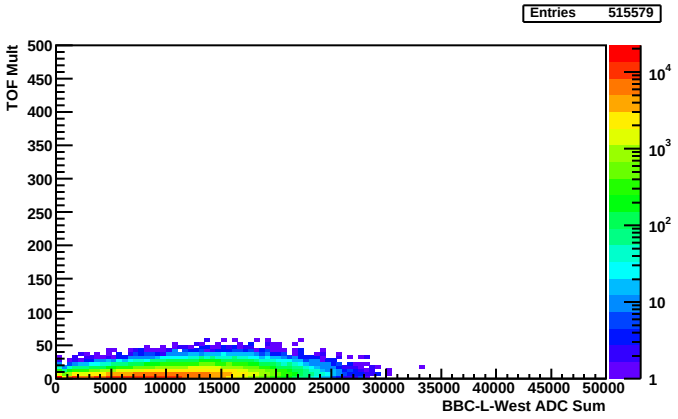

BBQ-VP003 (HI threshold)
Entries 8249264
ADC
QT Input Channel

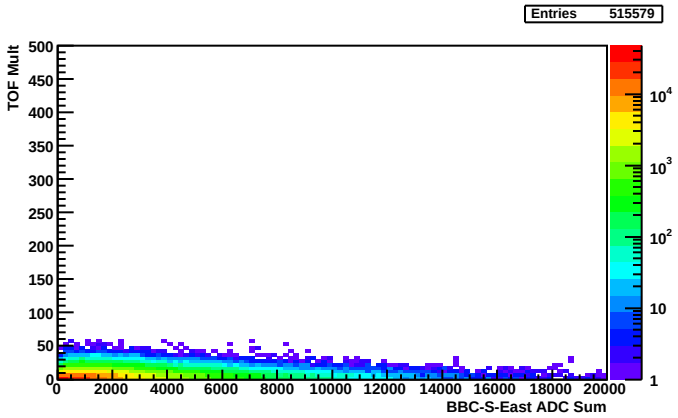

BBQ-VP003 (HI threshold)
Entries 8249264
TAC
QT Input Channel

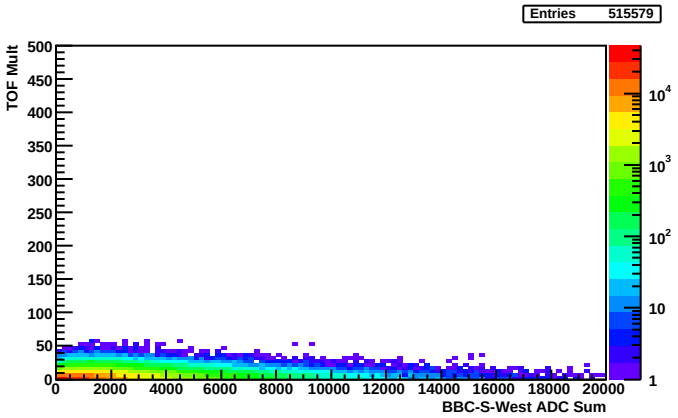

BBQ-VP004 (HI threshold)
Entries 8249264
ADC
QT Input Channel

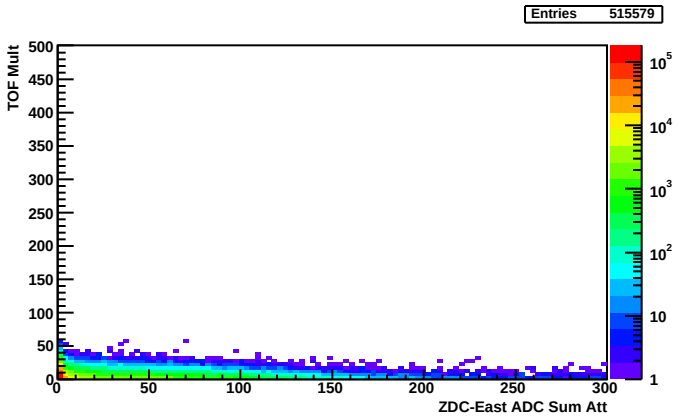

BBQ-VP004 (HI threshold)
Entries 8249264
TAC
QT Input Channel

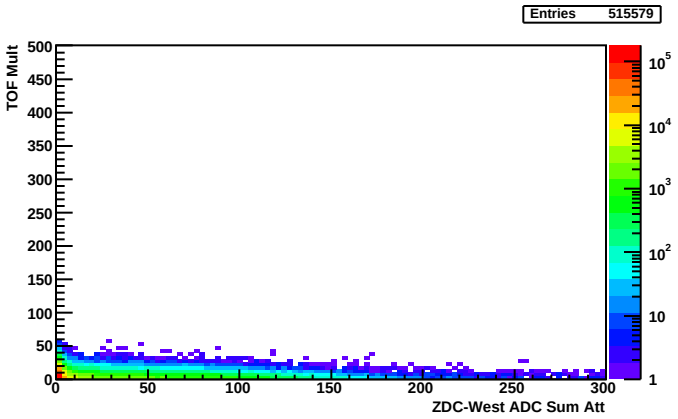

Entries 515579
TOF Mult
BBC-L-East ADC Sum

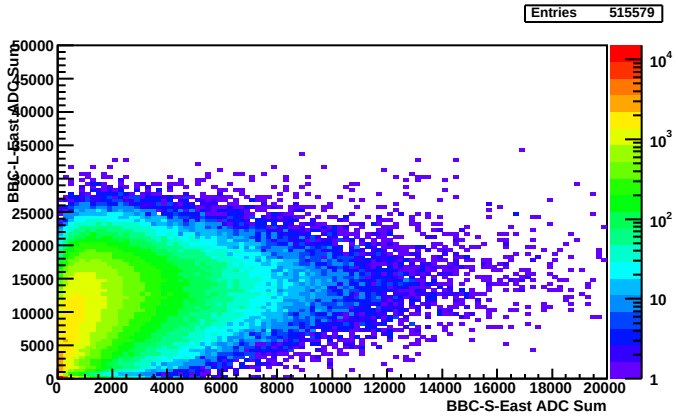

Entries 515579
TOF Mult
BBC-L-West ADC Sum

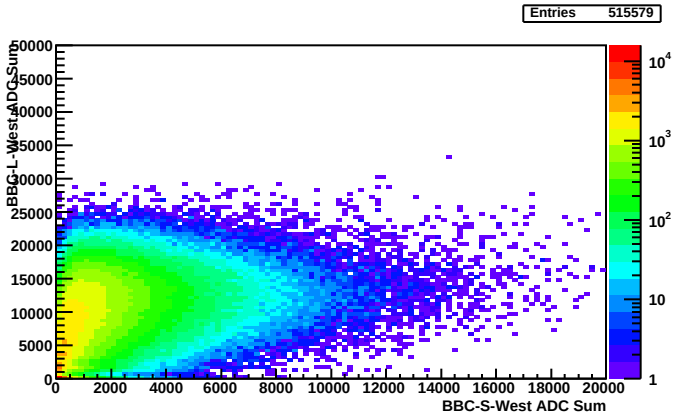

Entries 515579
TOF Mult
BBC-S-East ADC Sum

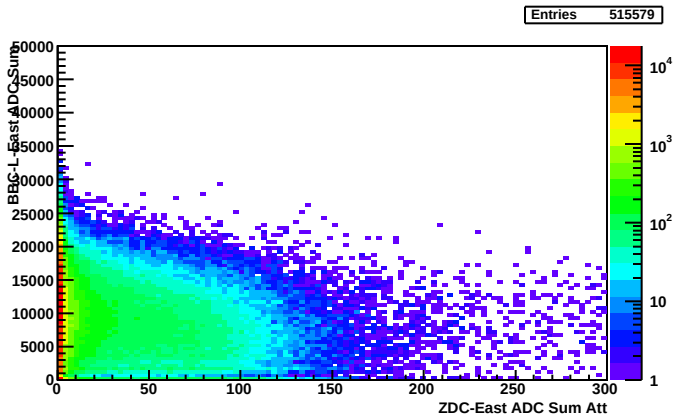

Entries 515579
TOF Mult
BBC-S-West ADC Sum

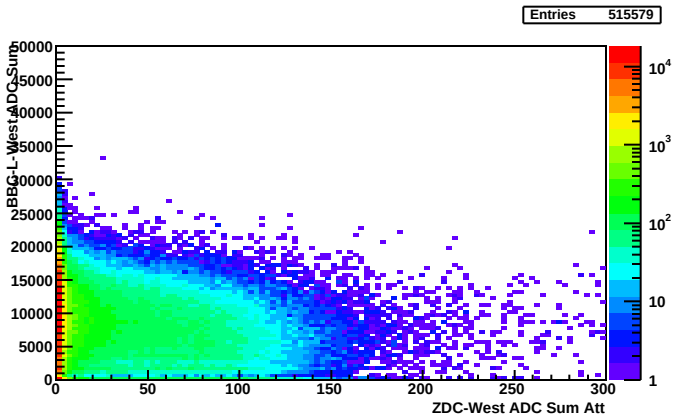

Entries 515579
TOF Mult
ZDC-East ADC Sum Att

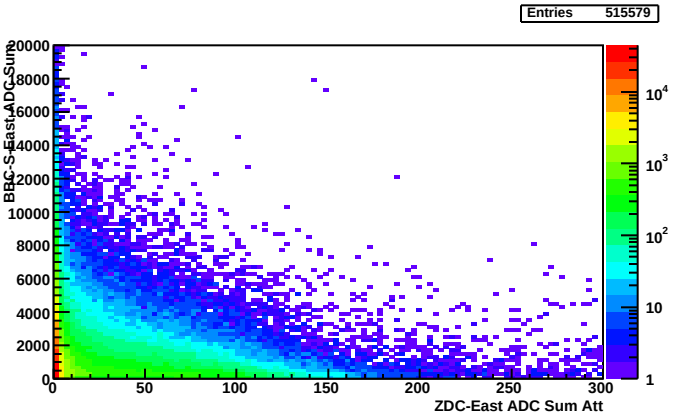

Entries 515579
TOF Mult
ZDC-West ADC Sum Att

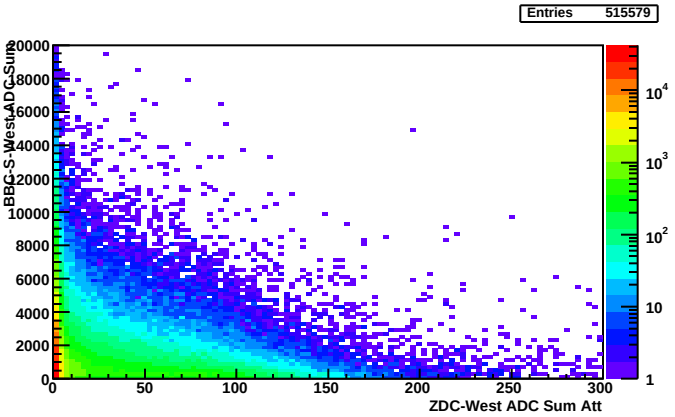

Entries 515579
BBC-L-East ADC Sum
BBC-S-East ADC Sum

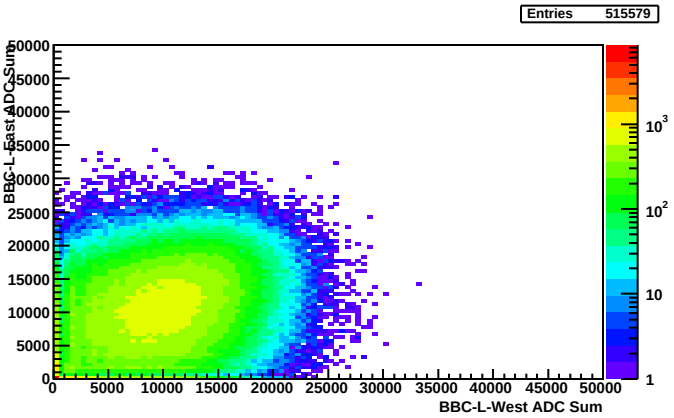

Entries 515579
BBC-L-West ADC Sum
BBC-S-West ADC Sum

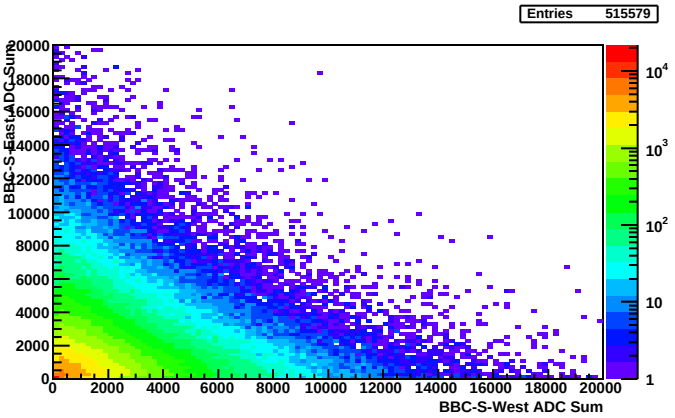

Entries 515579
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

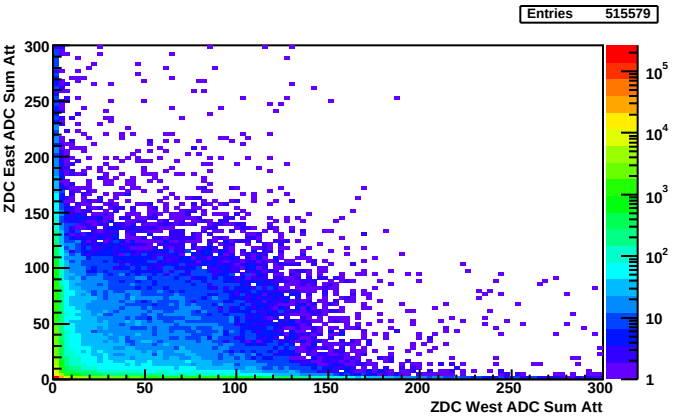

Entries 515579
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

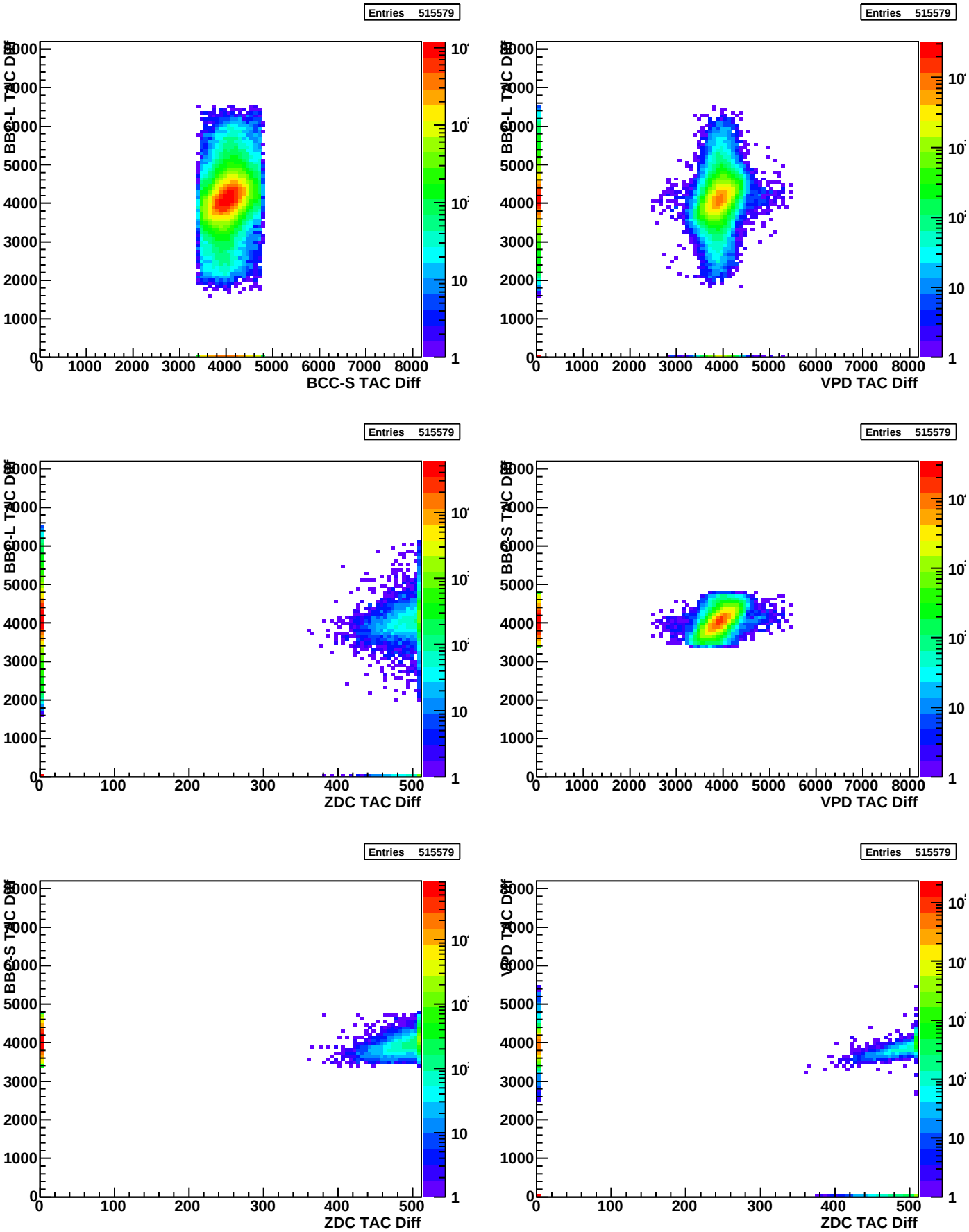

Entries 515579
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

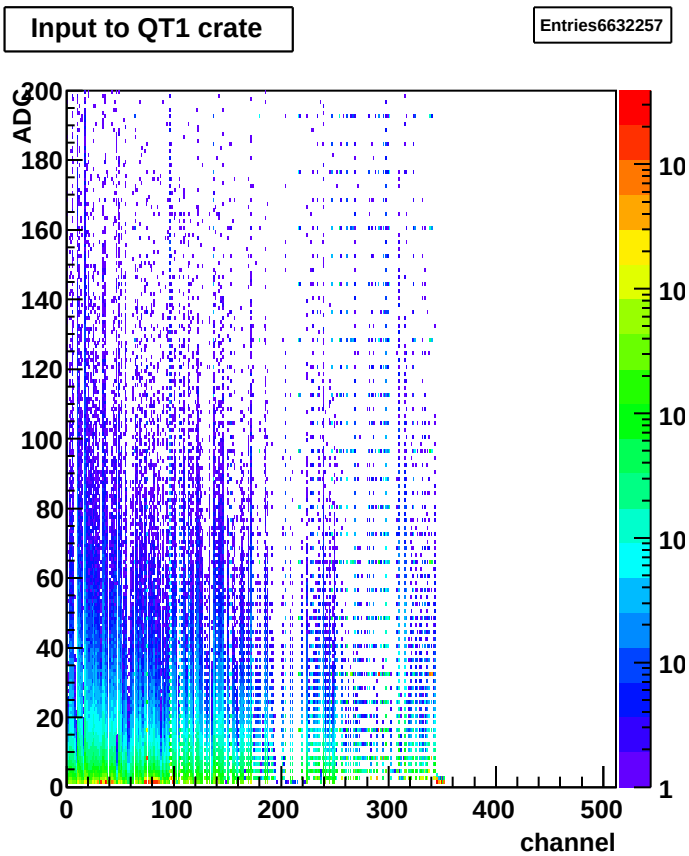

Entries 515579
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

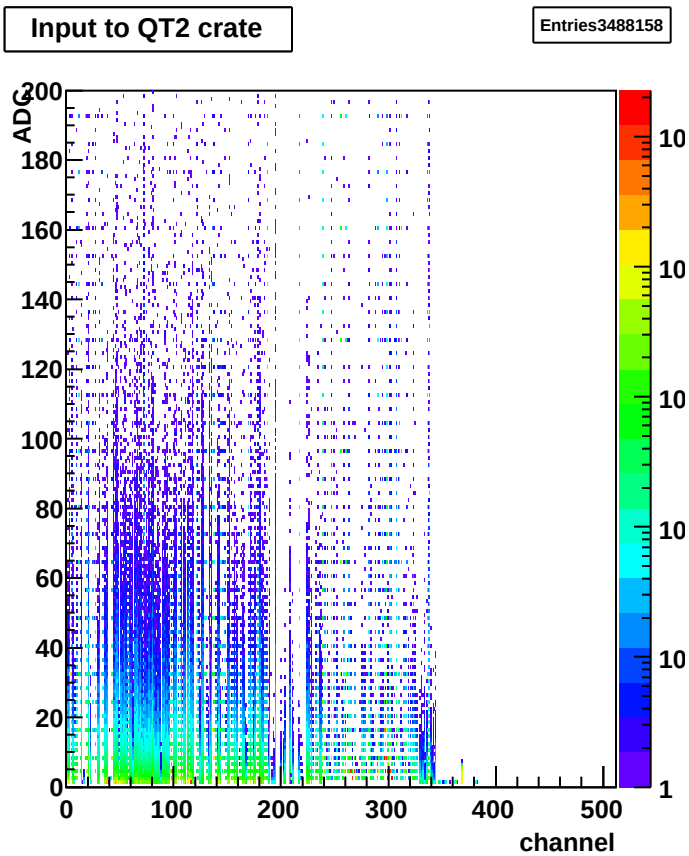

Entries 515579
BBC-L-East ADC Sum
BBC-L-West ADC Sum

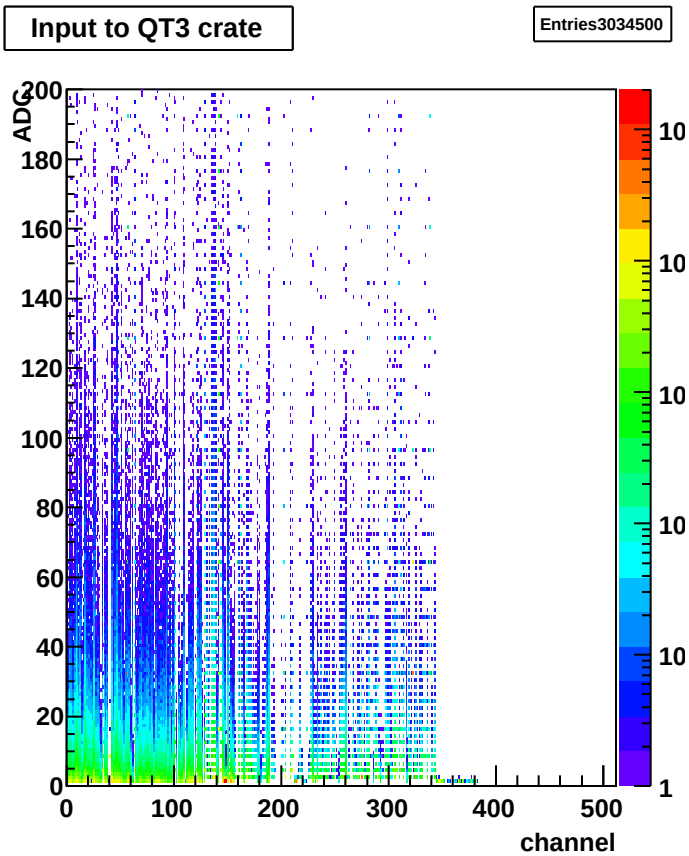

Entries 515579
BBC-S-East ADC Sum
BBC-S-West ADC Sum

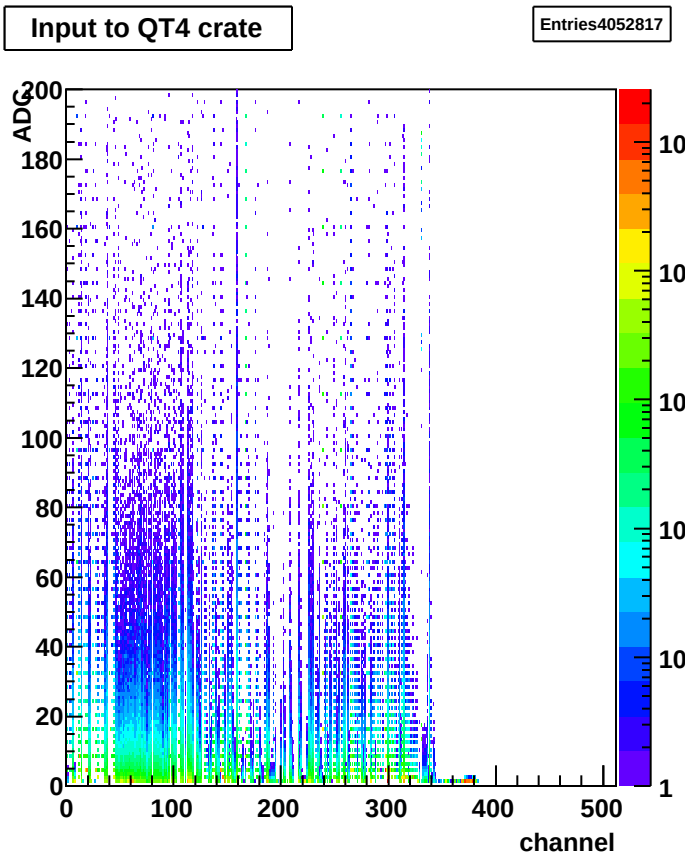

Entries 515579
ZDC East ADC Sum Att
ZDC West ADC Sum Att

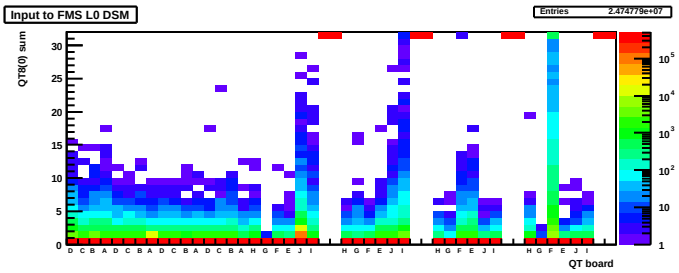

Entries 515579
BBC-L TAC Diff
BCC-S TAC Diff
Entries 515579
BBC-L TAC Diff
VPD TAC Diff
Entries 515579
BBC-L TAC Diff
ZDC TAC Diff
Entries 515579
BBC-S TAC Diff
VPD TAC Diff
Entries 515579
BBC-S TAC Diff
ZDC TAC Diff
Entries 515579
VPD TAC Diff
ZDC TAC Diff

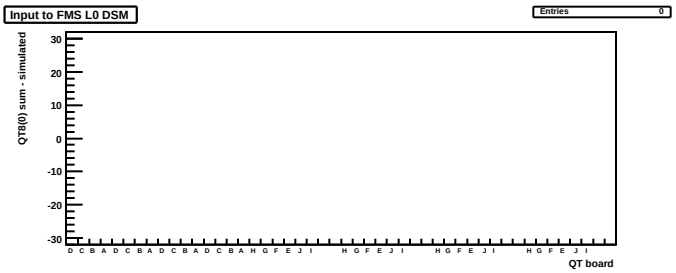

Input to QT1 crate
Entries6632257
ADC
channel

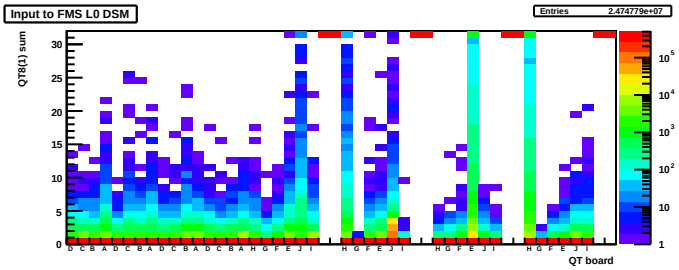

Input to QT2 crate
Entries3488158
ADC
channel

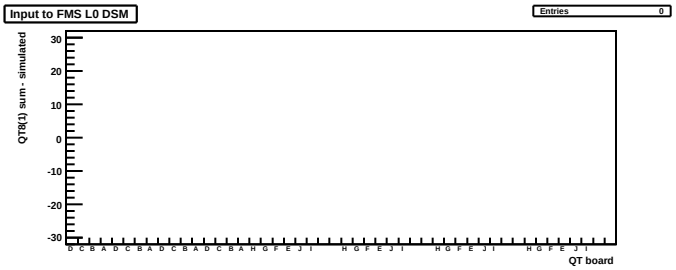

Input to QT3 crate
Entries3034500
ADC
channel

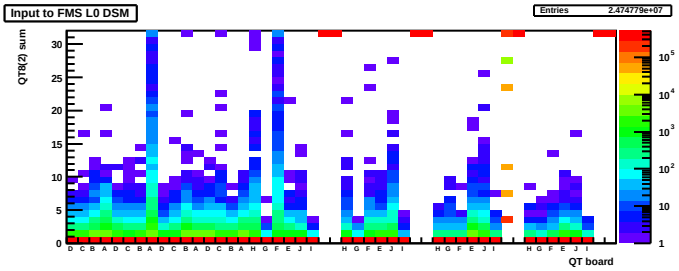

Input to QT4 crate
Entries4052817
ADC
channel

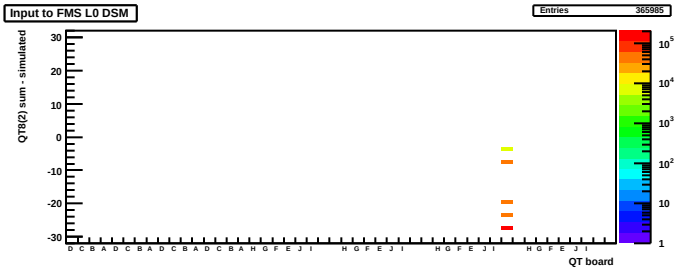

Input to FMS L0 DSM
Entries 2.474779e+07
QT8(0) sum
QT board

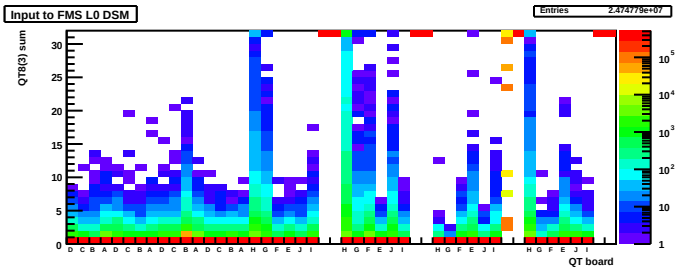

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

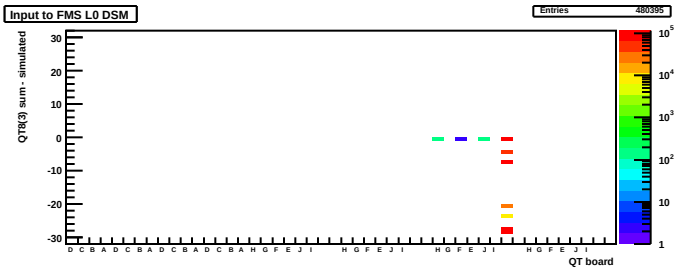

Input to FMS L0 DSM
Entries 2.474779e+07
QT8(1) sum
QT board

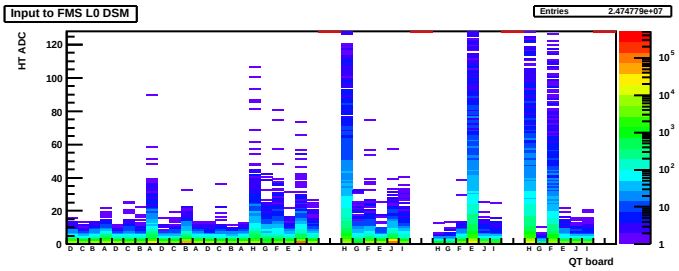

Input to FMS L0 DSM
Entries 0
QT8(1) sum - simulated
QT board

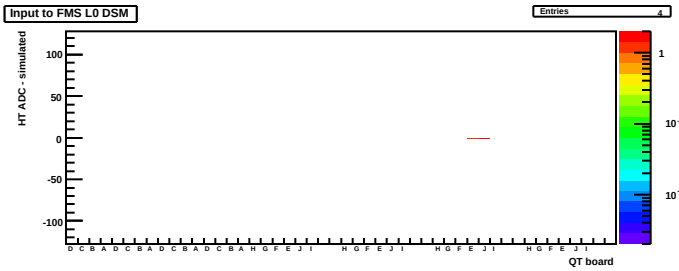

Input to FMS L0 DSM
Entries 2.474779e+07
QT8(2) sum
QT board

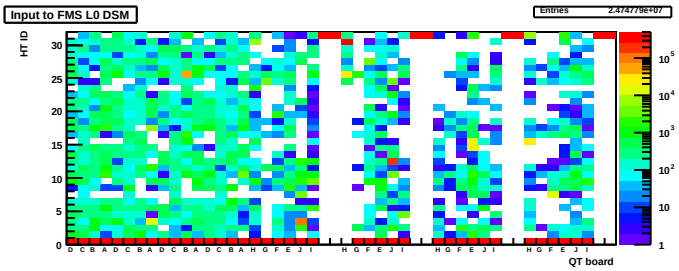

Input to FMS L0 DSM
Entries 365985
QT8(2) sum - simulated
QT board

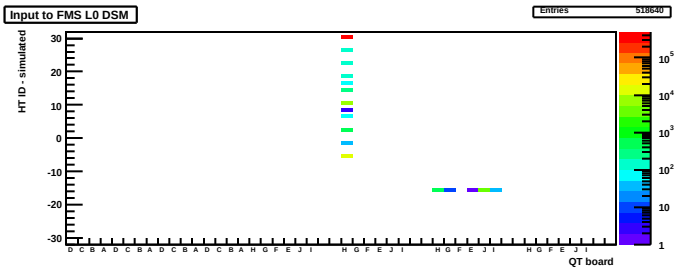

Input to FMS L0 DSM
Entries 2.474779e+07
QT8(3) sum
QT board

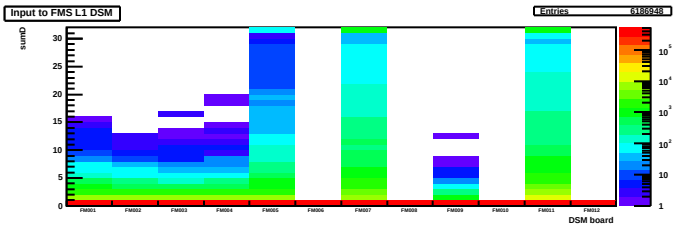

Input to FMS L0 DSM
Entries 480395
QT8(3) sum - simulated
QT board

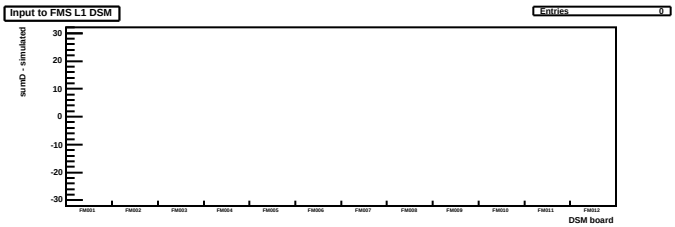

Input to FMS L0 DSM
Entries 2.474779e+07
HT ADC
QT board

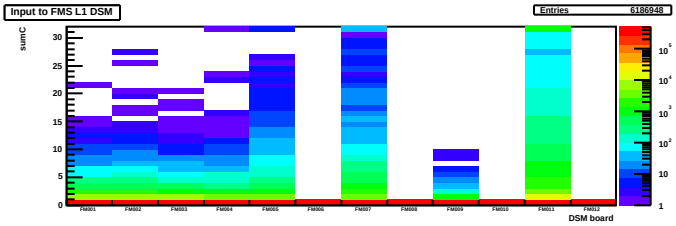

Input to FMS L0 DSM
Entries 4
HT ADC - simulated
QT board

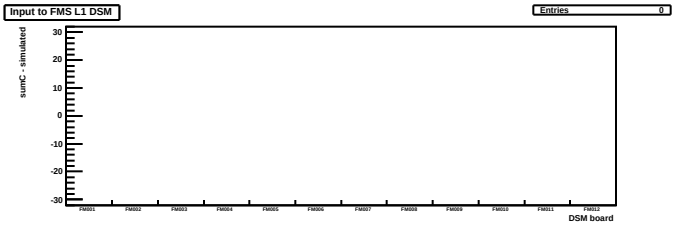

Input to FMS L0 DSM
Entries 2.474779e+07
HT ID
QT board

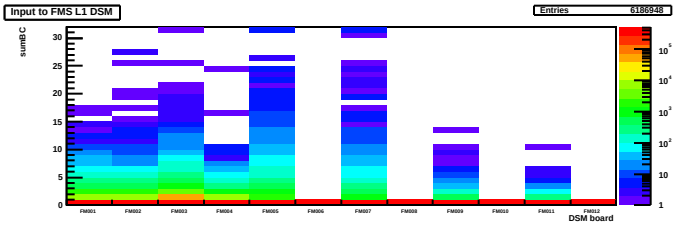

Input to FMS L0 DSM
Entries 518640
HT ID - simulated
QT board

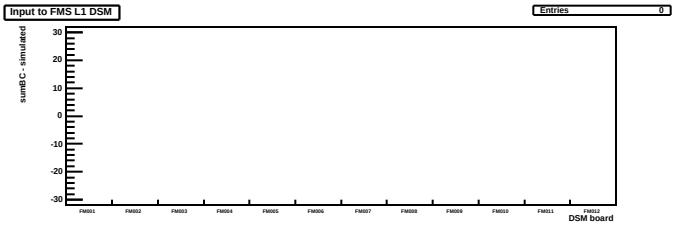

Input to FMS L1 DSM
Entries 6186948
sumD
DSM board

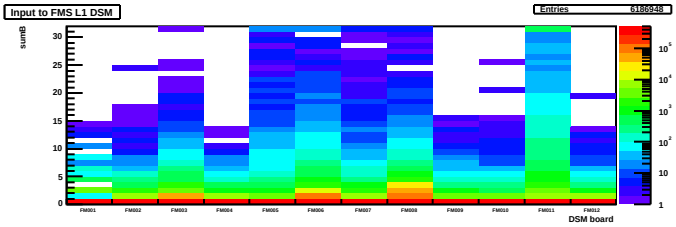

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

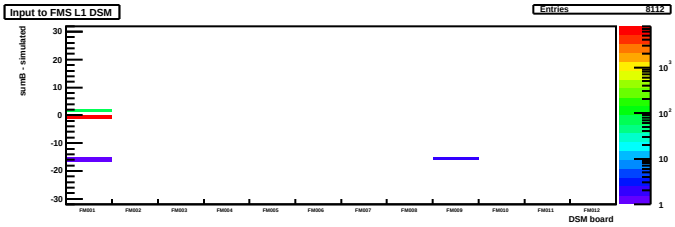

Input to FMS L1 DSM
Entries 6186948
sumC
DSM board

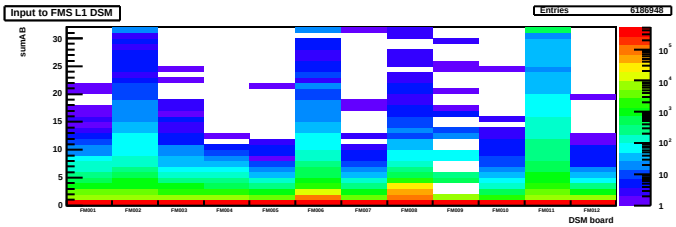

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

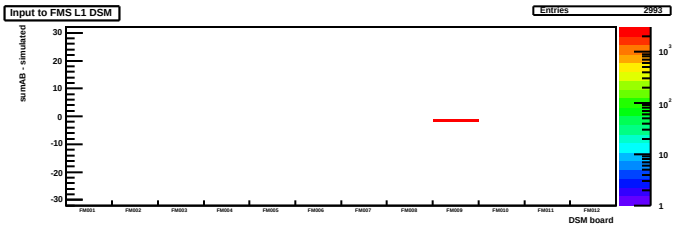

Input to FMS L1 DSM
Entries 6186948
sumBC
DSM board

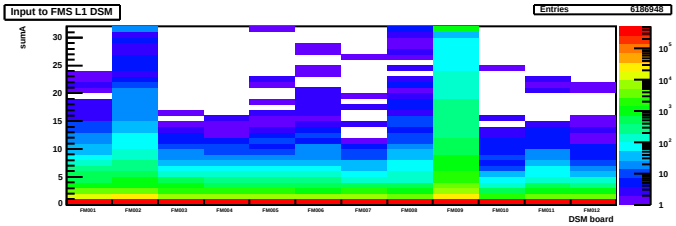

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

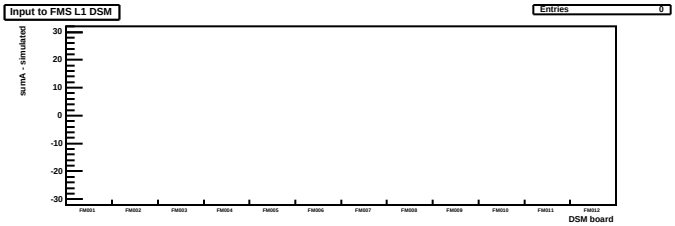

Input to FMS L1 DSM
Entries 6186948
sumB
DSM board

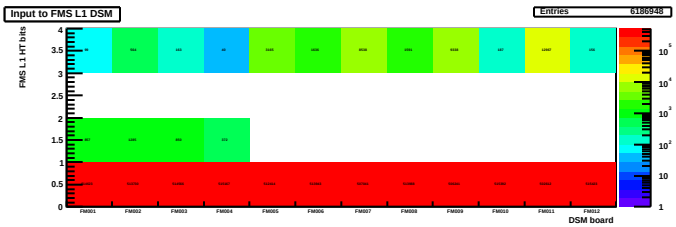

Input to FMS L1 DSM
Entries 8112
sumB - simulated
DSM board

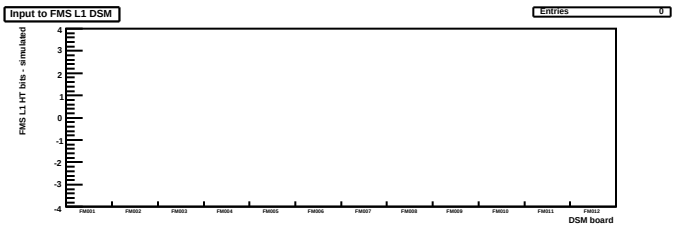

Input to FMS L1 DSM
Entries 6186948
sumAB
DSM board

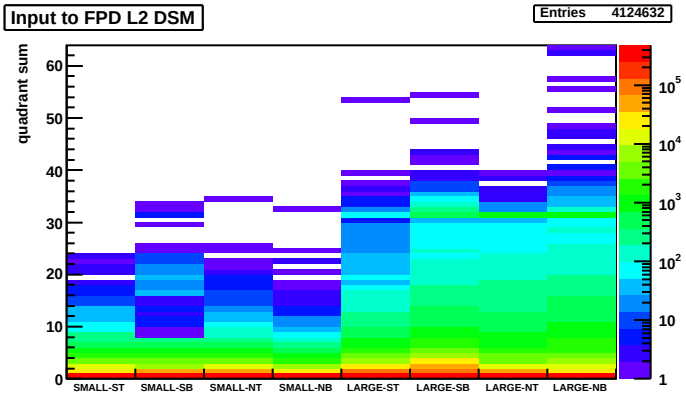

Input to FMS L1 DSM
Entries 2993
sumAB - simulated
DSM board

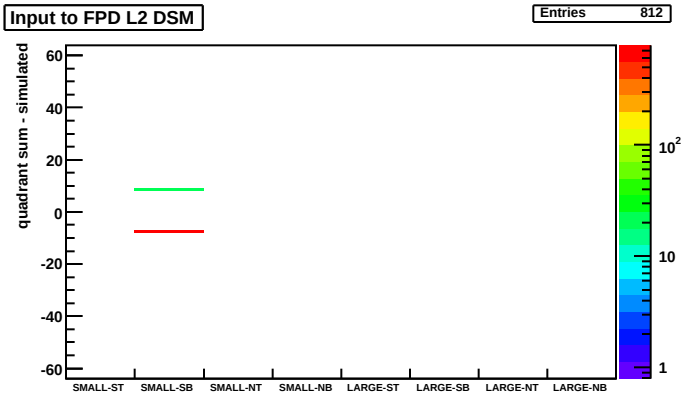

Input to FMS L1 DSM
Entries 6186948
sumA
DSM board

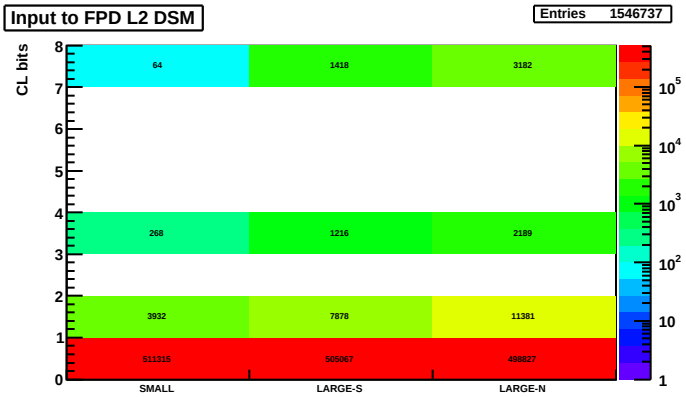

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

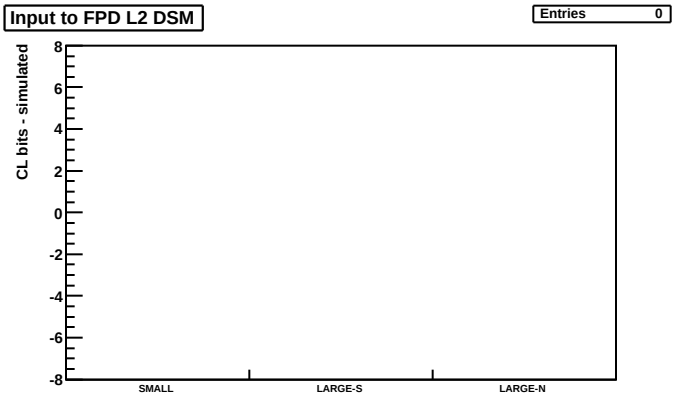

Input to FMS L1 DSM
Entries 6186948
FMS L1 HT bits
DSM board

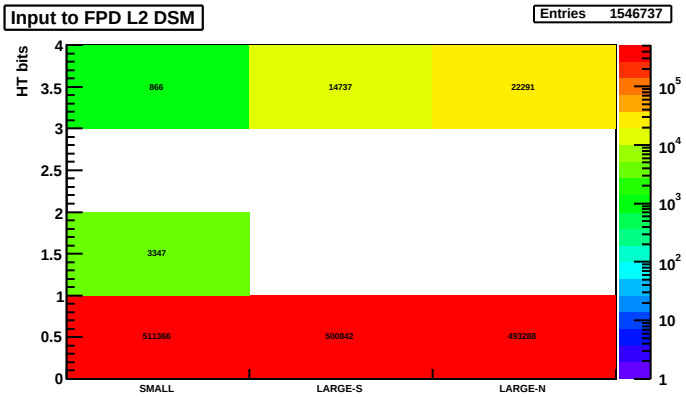

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

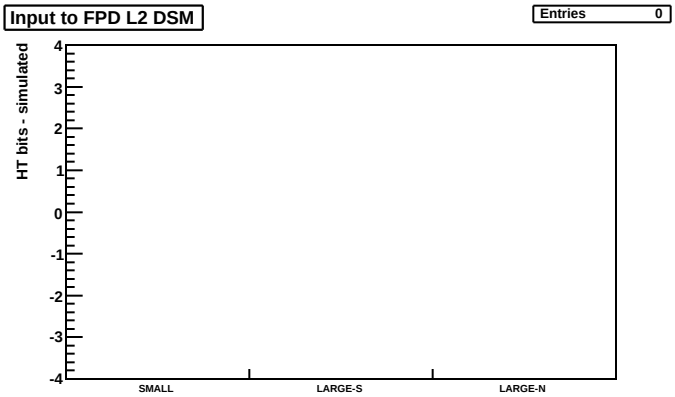

Input to FPD L2 DSM
Entries 4124632
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

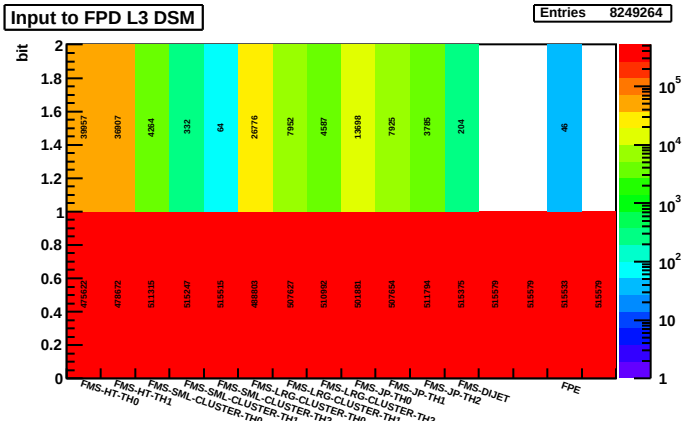

Input to FPD L2 DSM
Entries 812
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

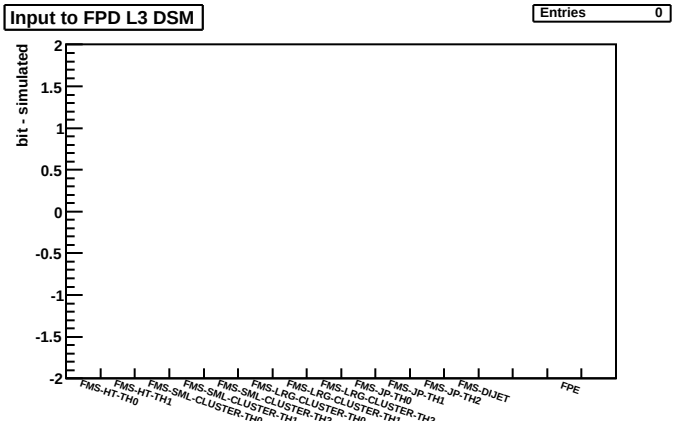

Input to FPD L2 DSM
Entries 1546737
CL bits
64
1418
3182
268
1216
2189
3932
7878
11381
511315
505067
498827
SMALL
LARGE-S
LARGE-N

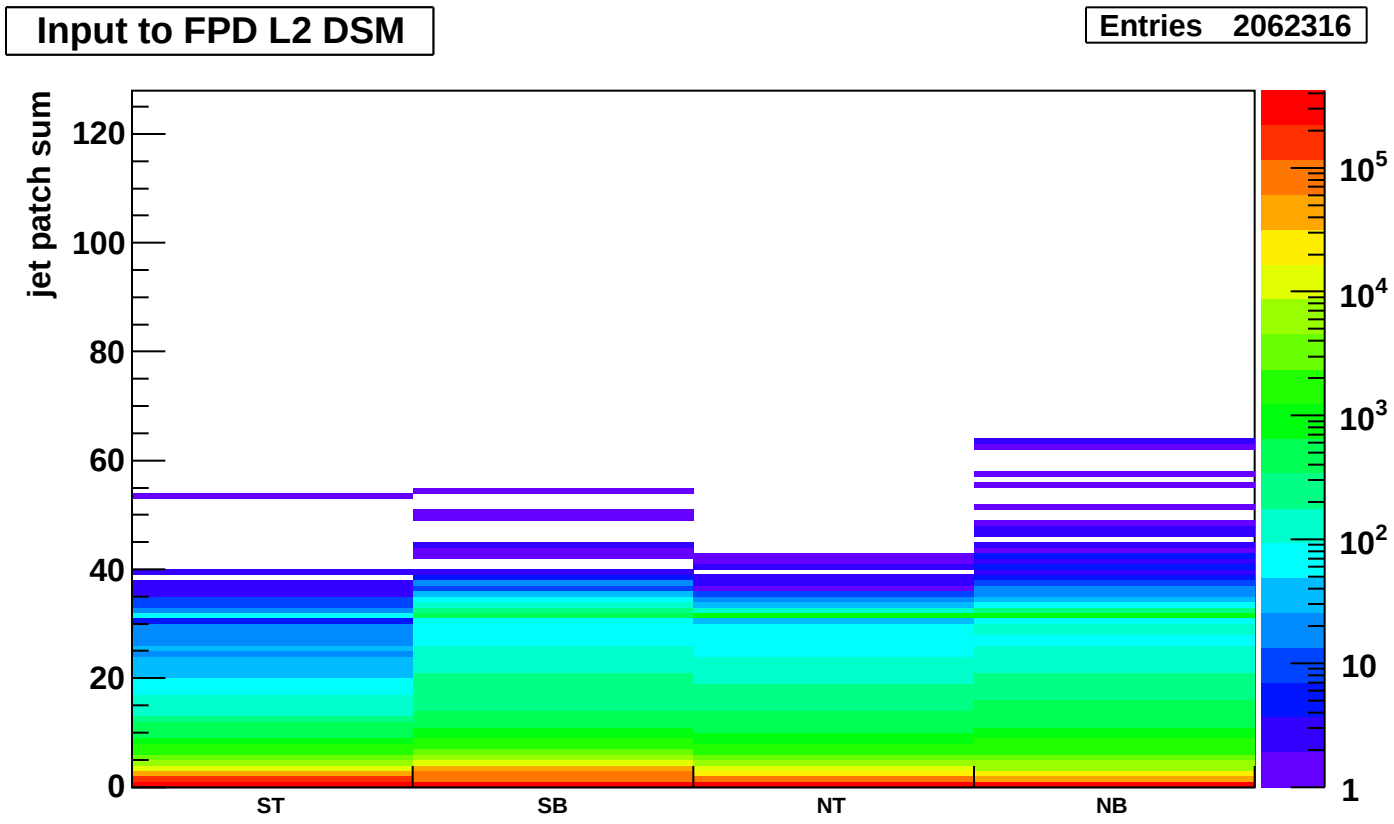

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

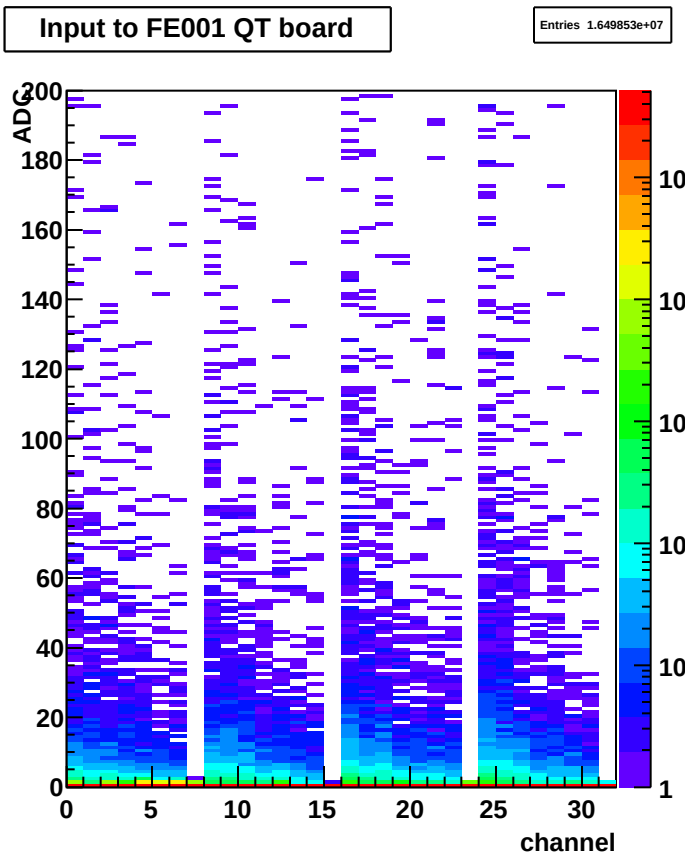

Input to FPD L2 DSM
Entries 1546737
HT bits
866
14737
22291
3347
511366
500842
493288
SMALL
LARGE-S
LARGE-N

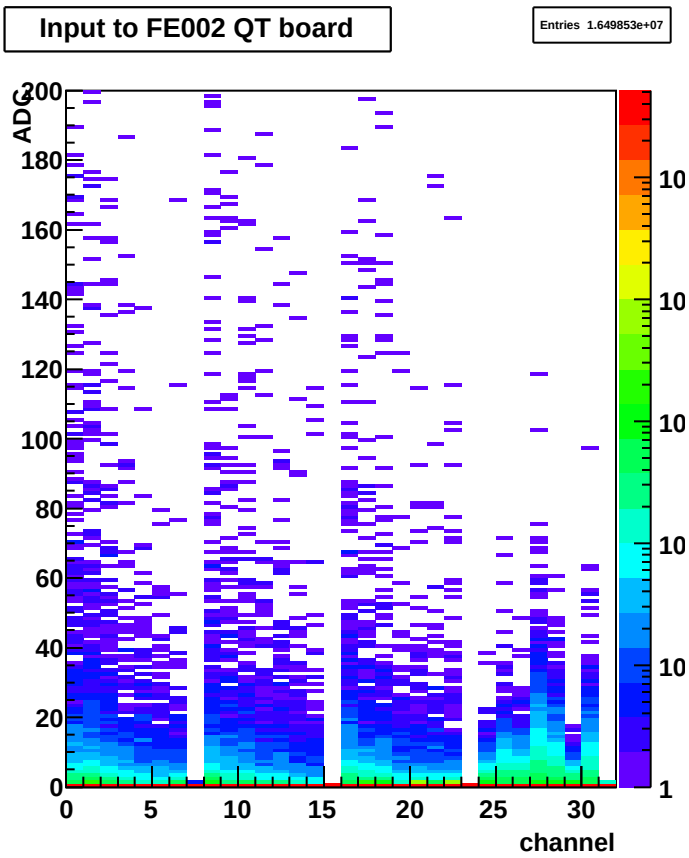

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

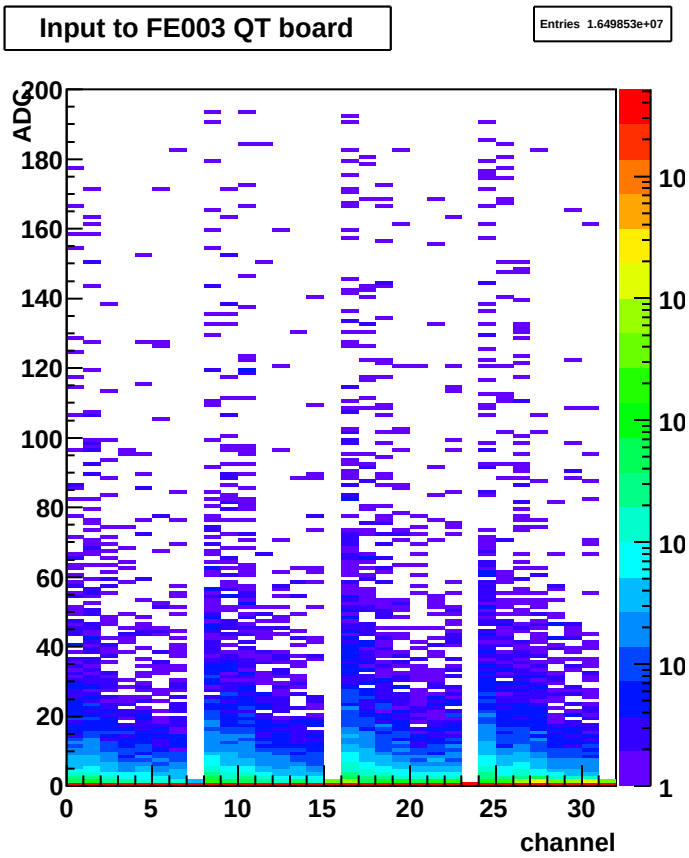

Input to FPD L3 DSM
Entries 8249264
bit
38937
38907
4264
332
64
26776
7952
4587
13698
7925
3785
204
46
475622
478672
511315
515247
515515
488803
507627
510982
501681
507654
511794
515375
515579
515579
515533
515579
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

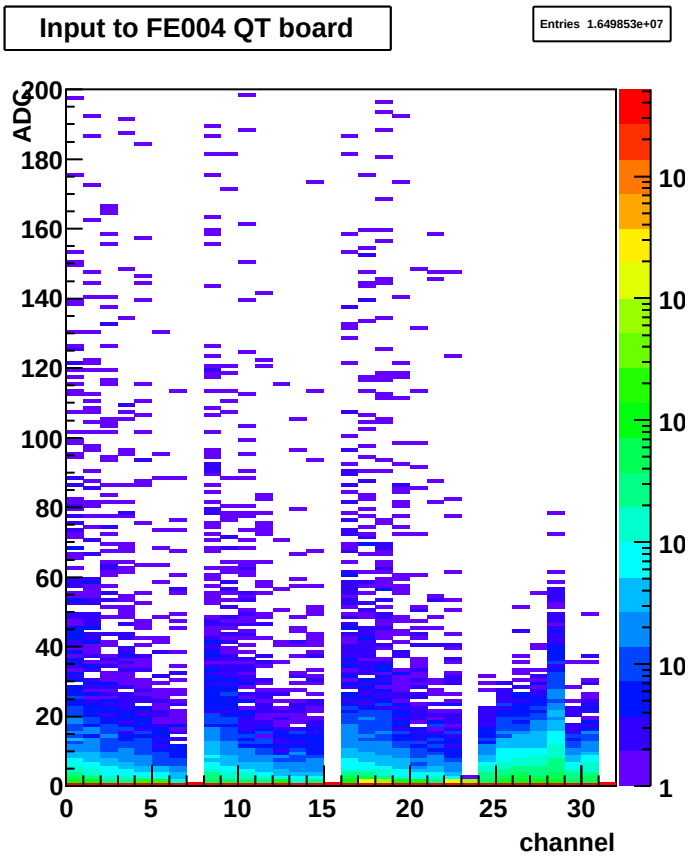

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

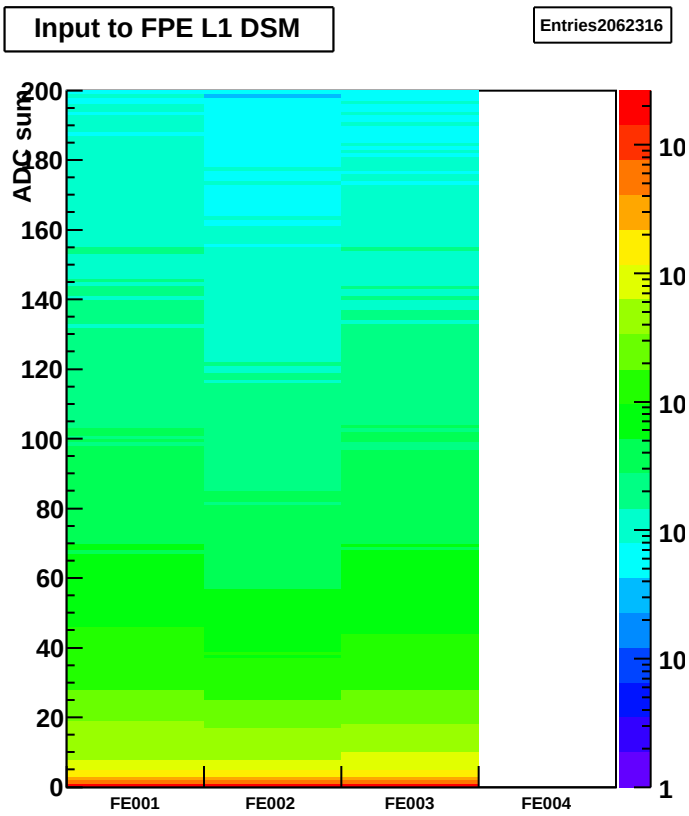

Input to FPD L2 DSM
Entries 2062316
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^5
10^4
10^3
10^2
10
1

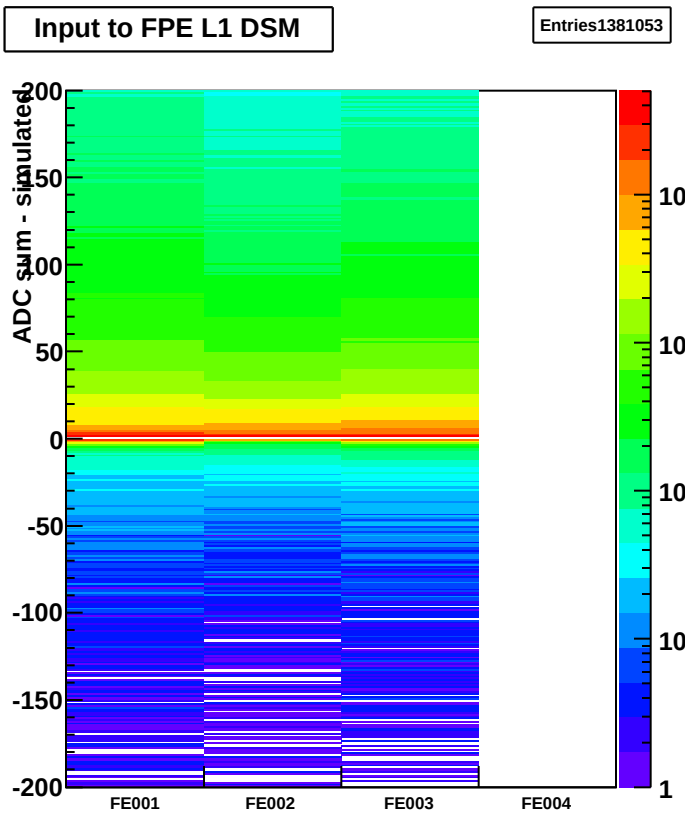

Input to FE001 QT board
Entries 1.649853e+07
ADC
channel

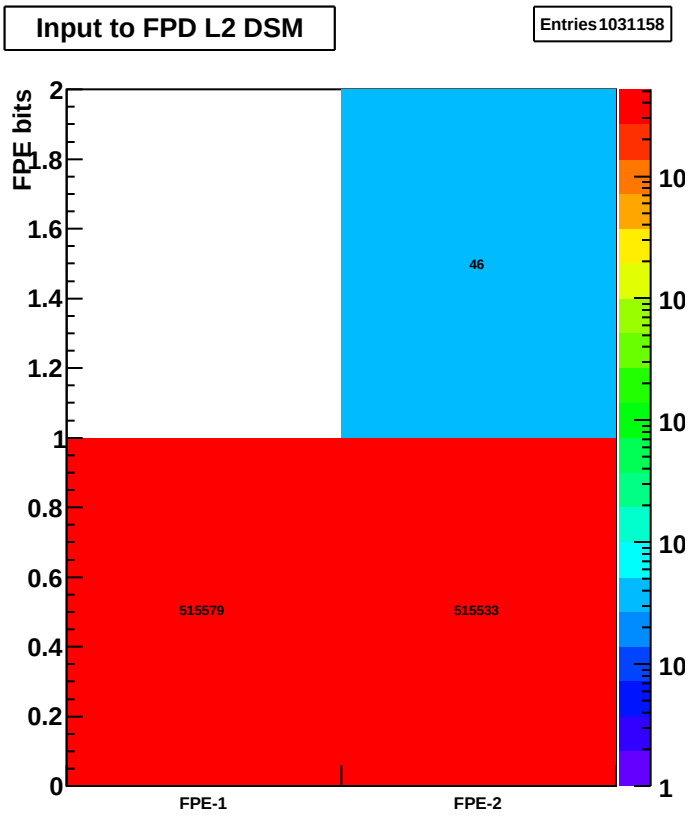

Input to FE002 QT board
Entries 1.649853e+07
ADC
channel

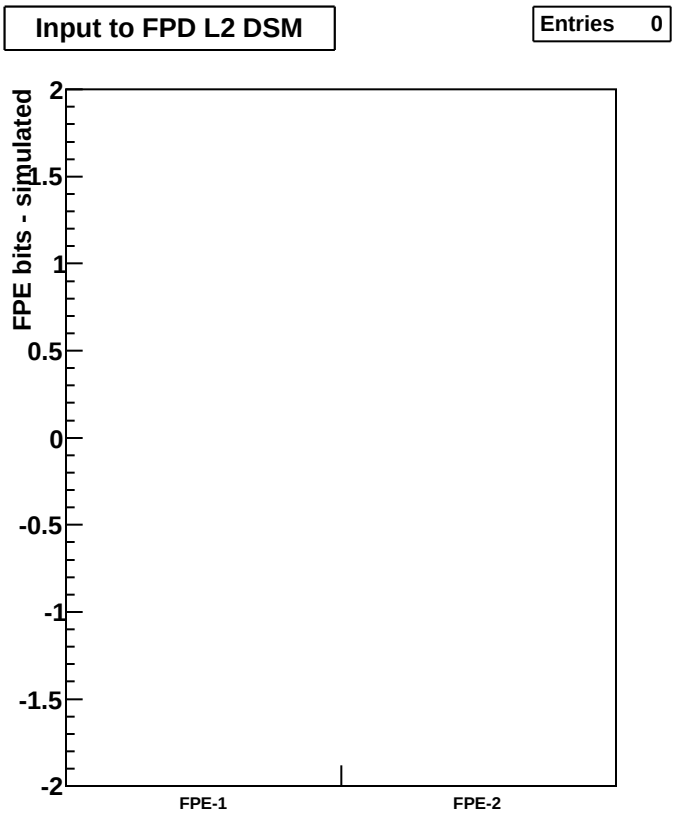

Input to FE003 QT board
Entries 1.649853e+07
ADC
channel


Input to FE004 QT board
Entries 1.649853e+07
ADC
channel


Input to FPE L1 DSM
Entries2062316
ADC sum
FE001
FE002
FE003
FE004


Input to FPE L1 DSM
Entries1381053
ADC sum - simulated
FE001
FE002
FE003
FE004


Input to FPD L2 DSM
Entries1031158
FPE bits
46
515579
515533
FPE-1
FPE-2


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