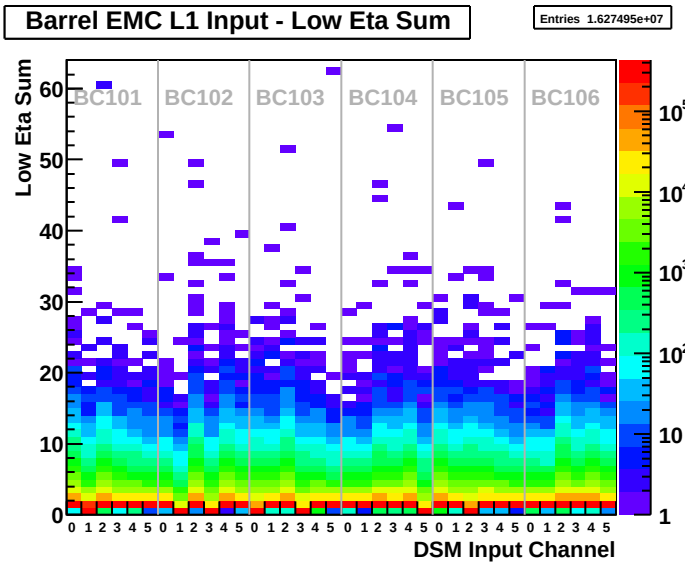
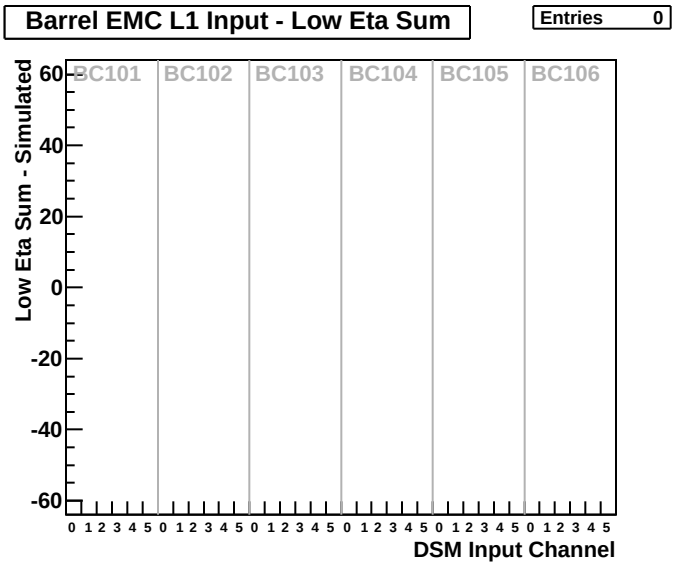
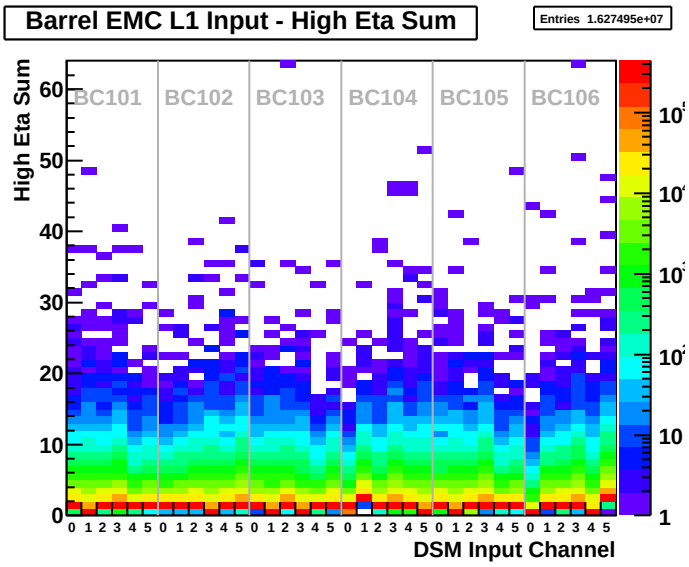
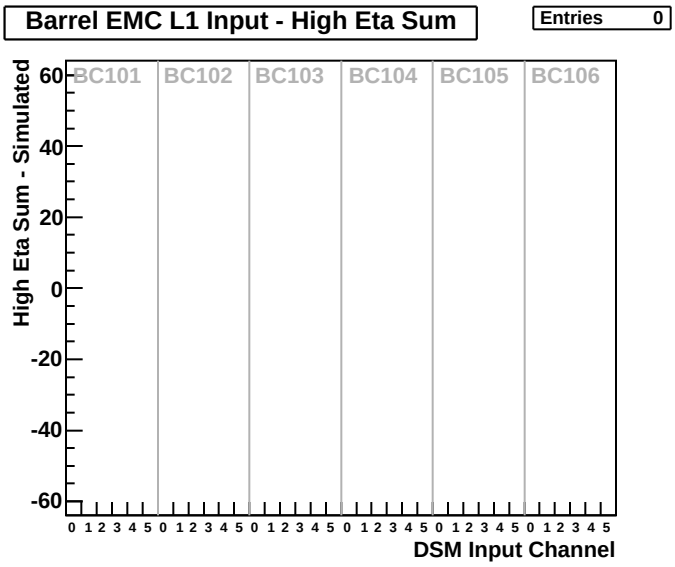
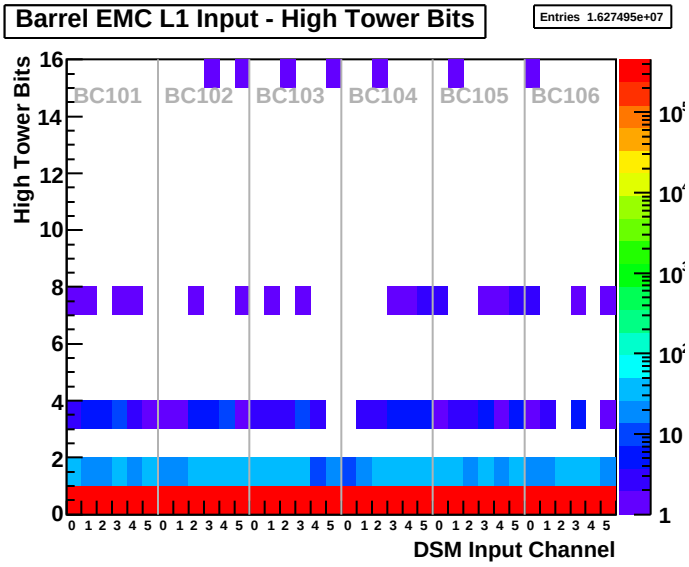
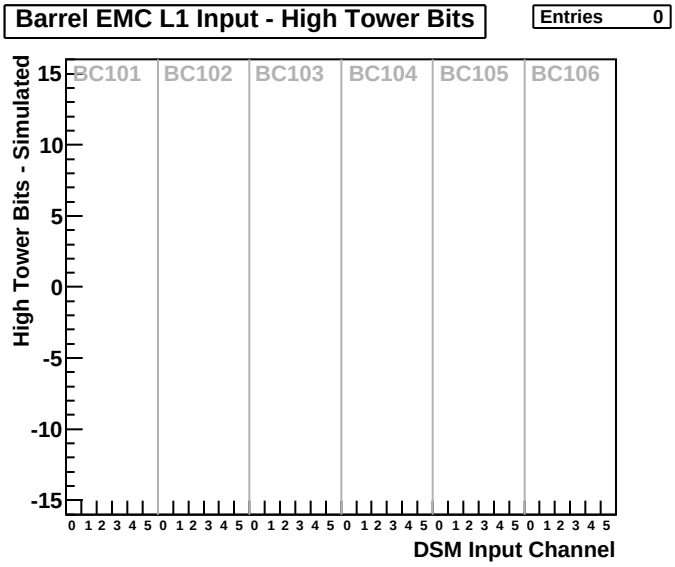

Barrel EMC L1 Input - Low Eta Sum
Entries 1.627495e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

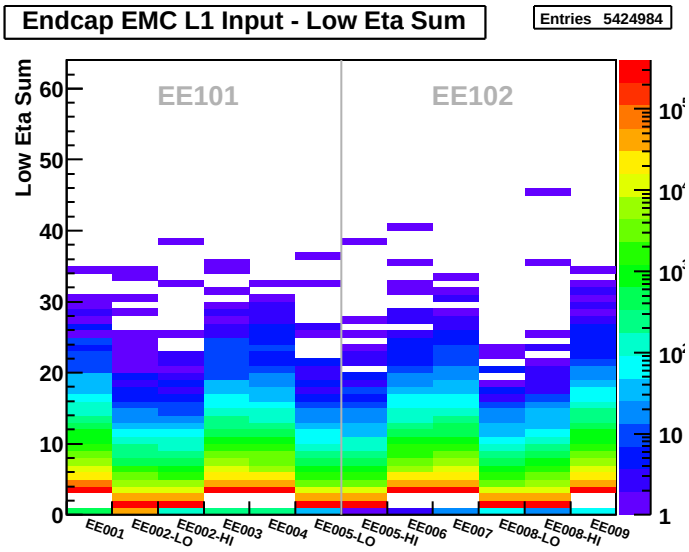

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

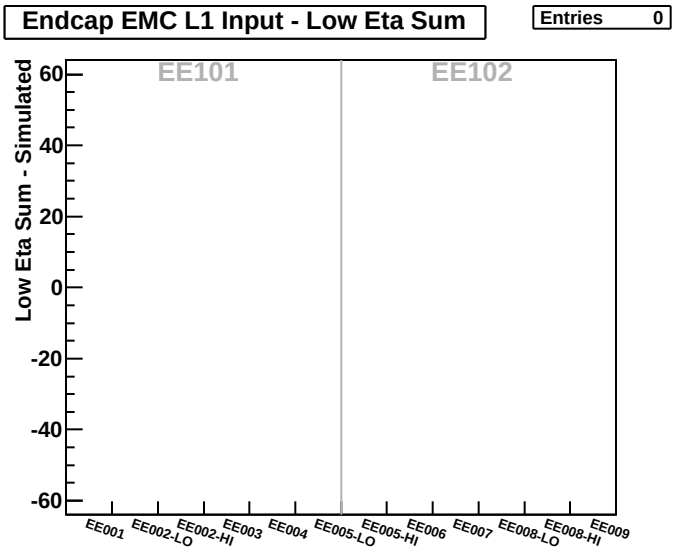

Barrel EMC L1 Input - High Eta Sum
Entries 1.627495e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

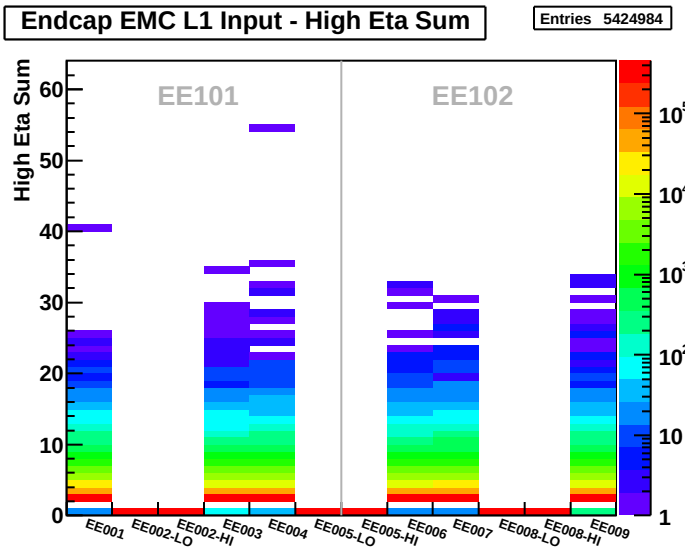

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

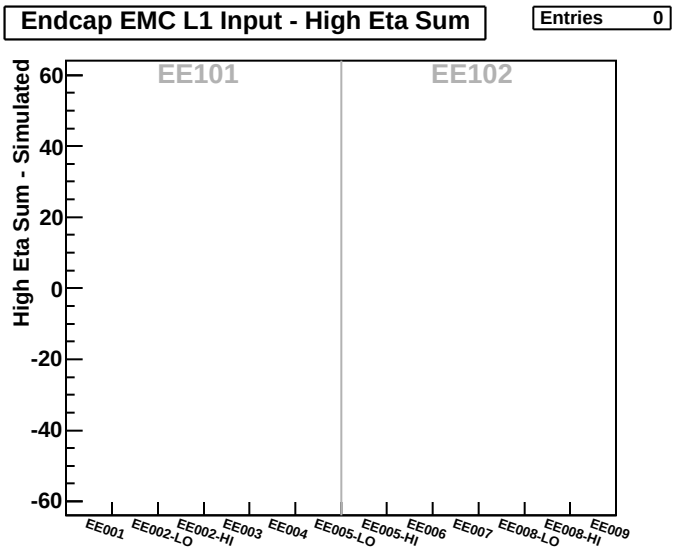

Barrel EMC L1 Input - High Tower Bits
Entries 1.627495e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

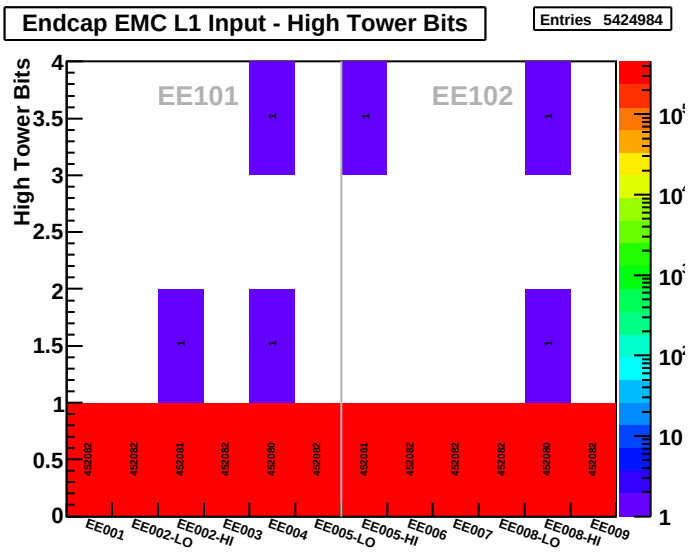

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

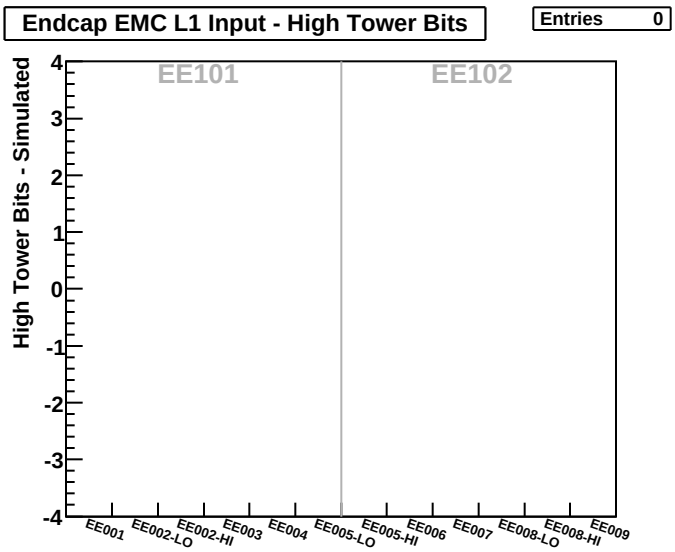

Endcap EMC L1 Input - Low Eta Sum
Entries 5424984
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

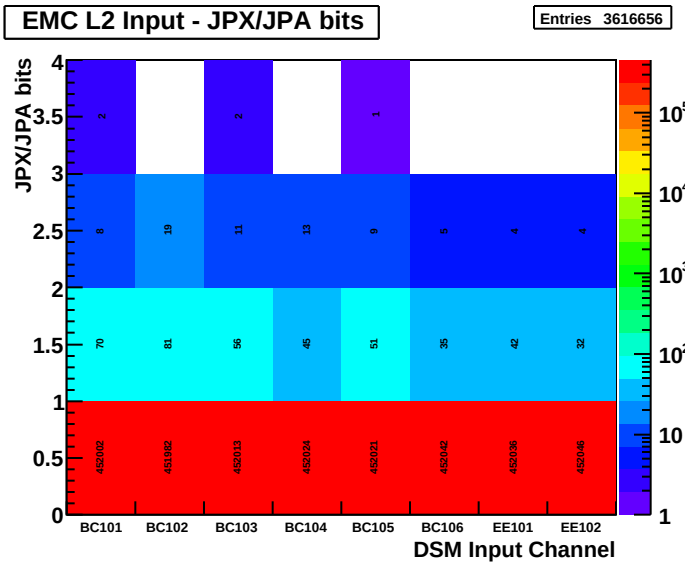

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

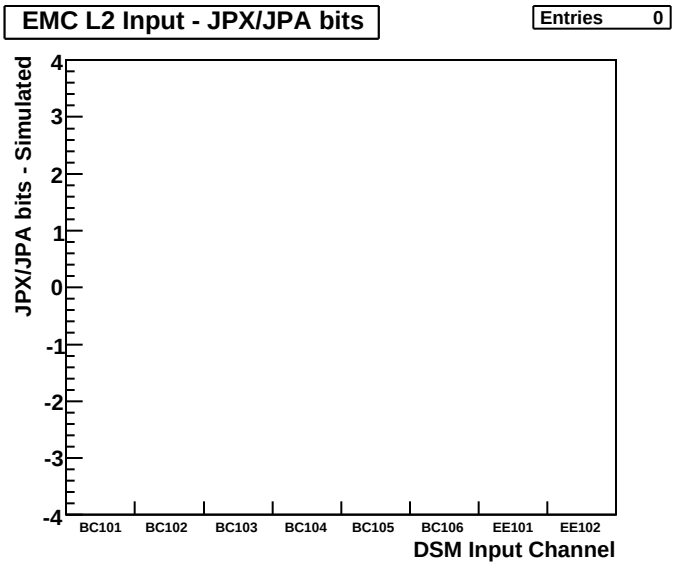

Endcap EMC L1 Input - High Eta Sum
Entries 5424984
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

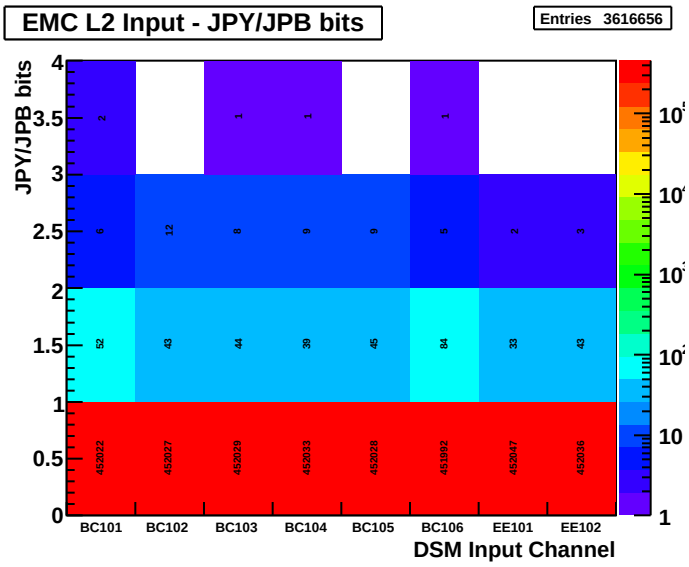

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

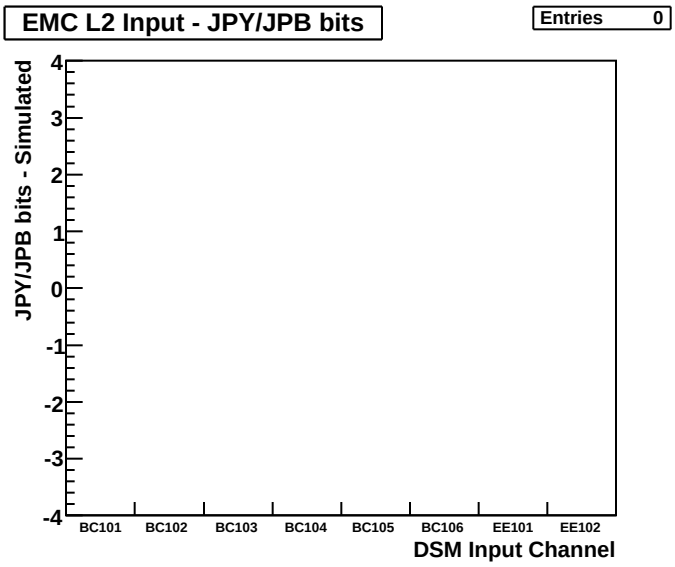

Endcap EMC L1 Input - High Tower Bits
Entries 5424984
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

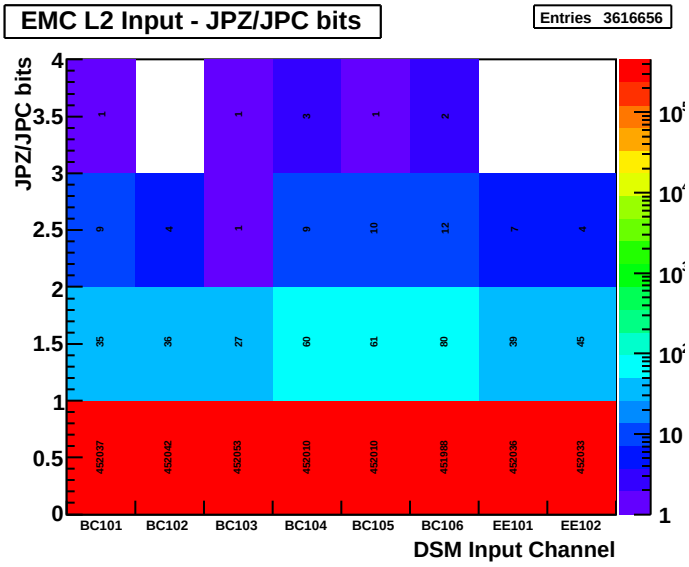

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

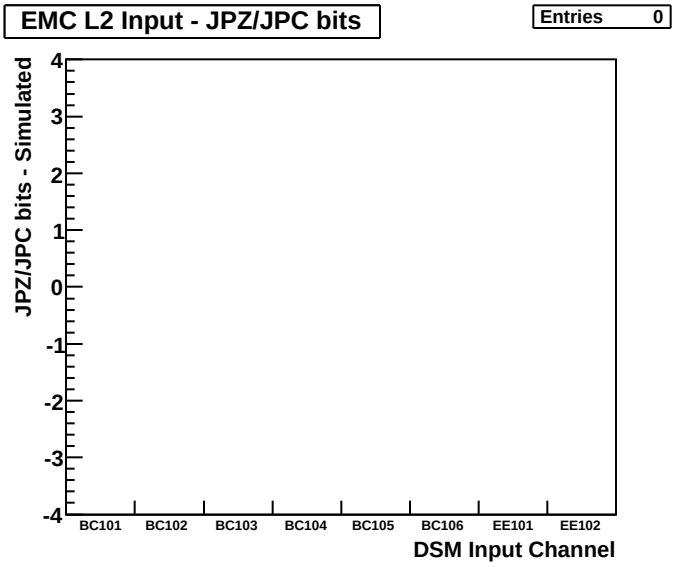

EMC L2 Input - JPX/JPA bits
Entries 3616656
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

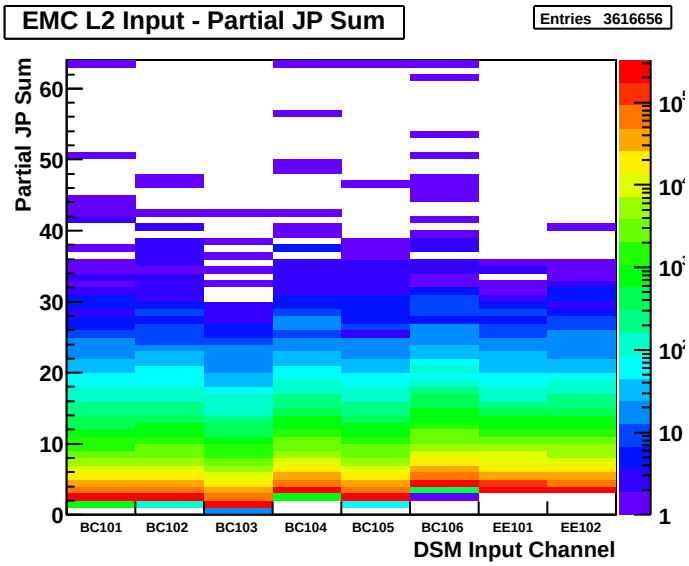

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

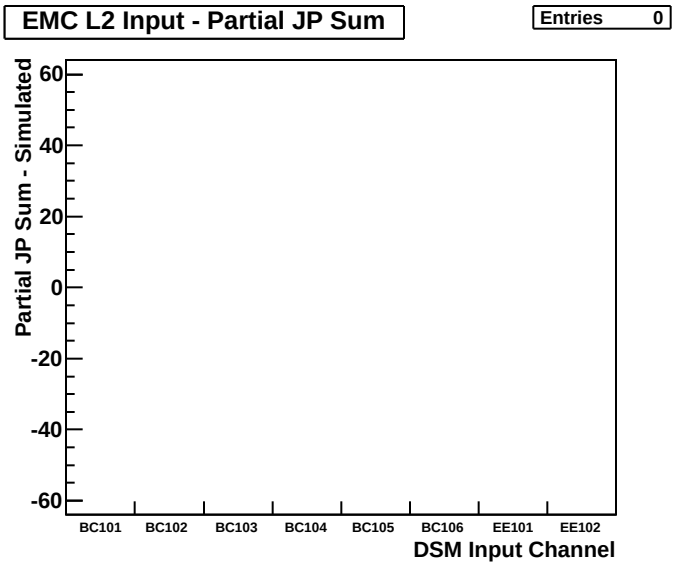

EMC L2 Input - JPY/JPB bits
Entries 3616656
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

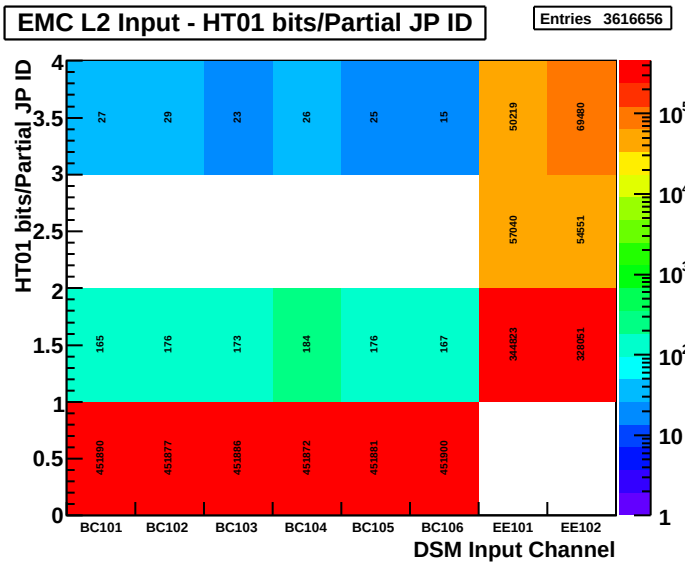

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

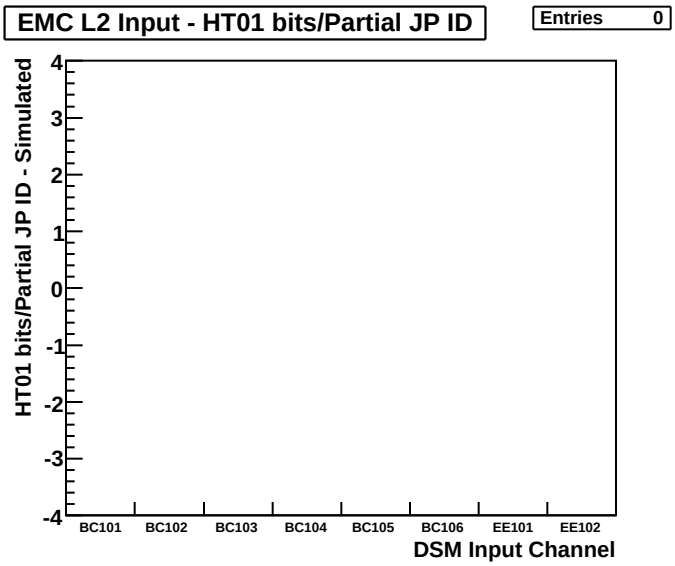

EMC L2 Input - JPZ/JPC bits
Entries 3616656
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

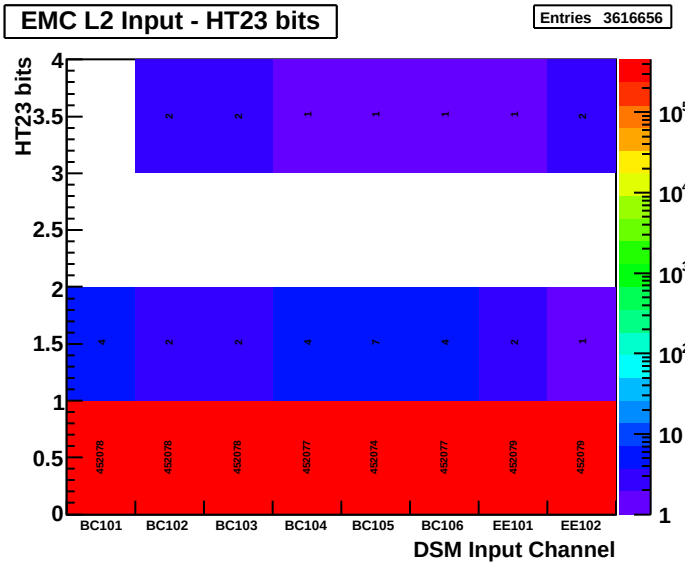

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

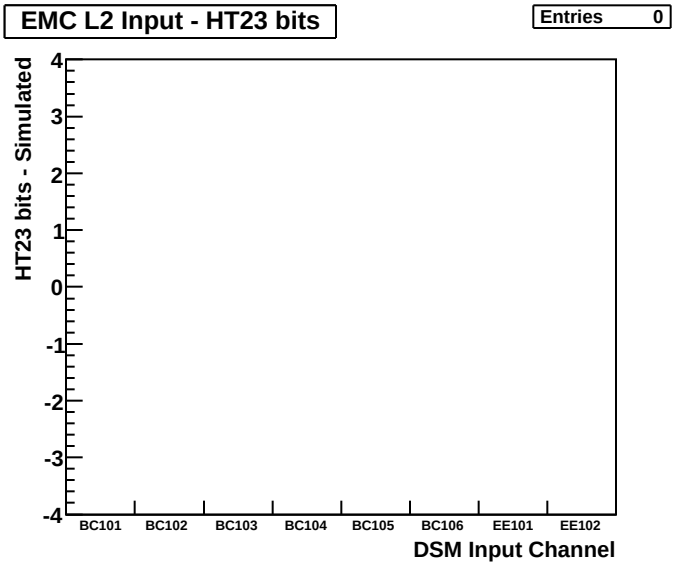

EMC L2 Input - Partial JP Sum
Entries 3616656
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

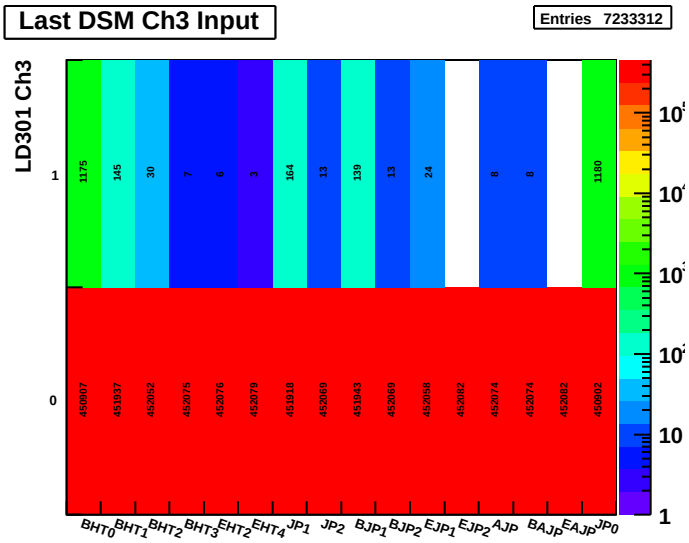

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

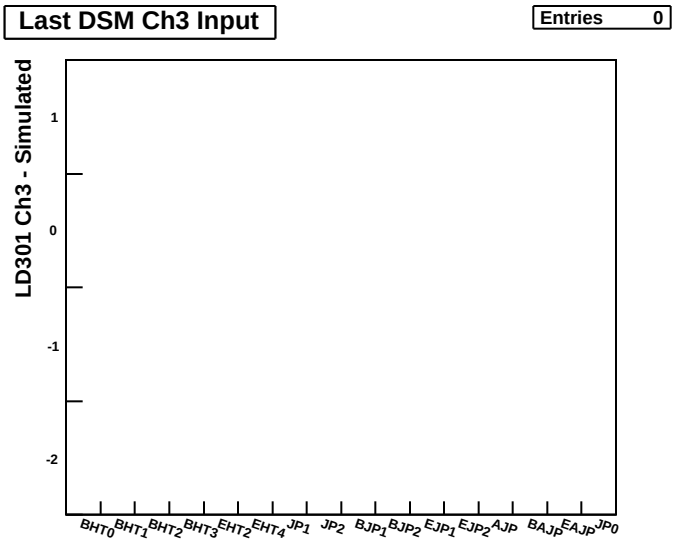

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3616656
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

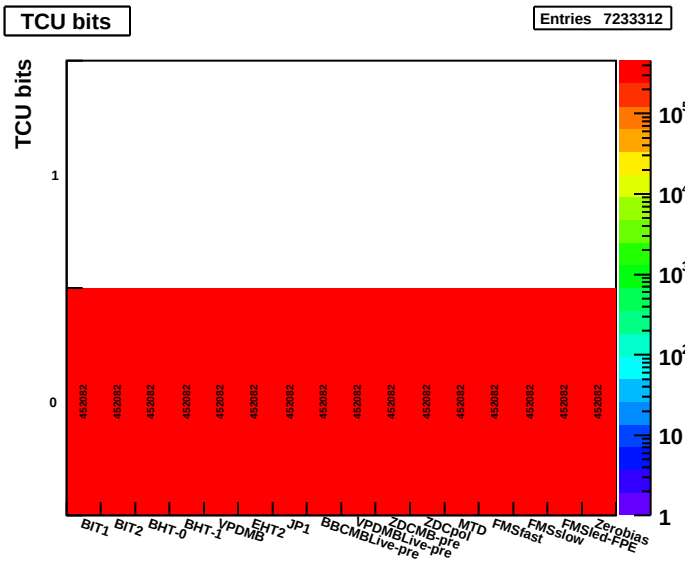

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

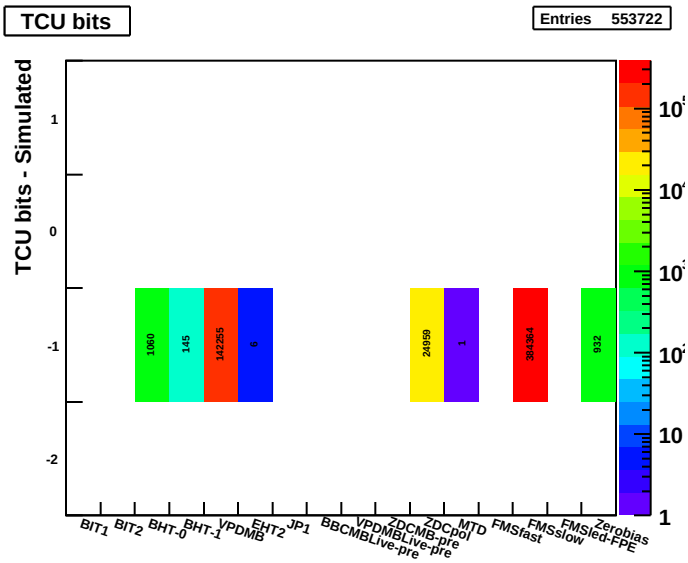

EMC L2 Input - HT23 bits
Entries 3616656
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

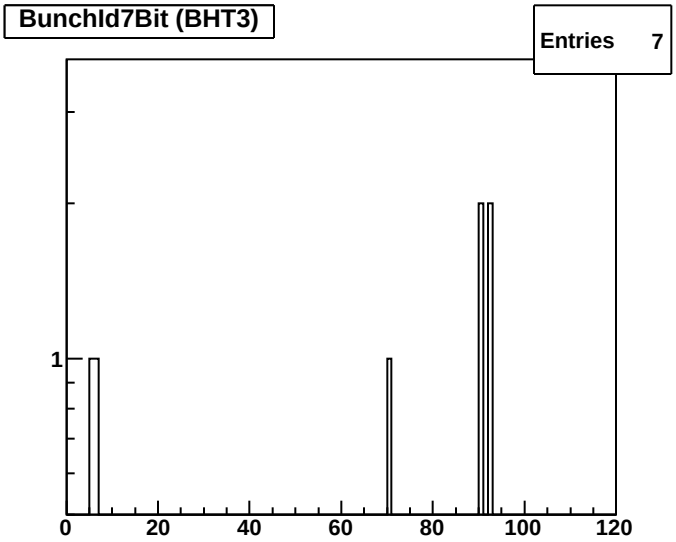

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

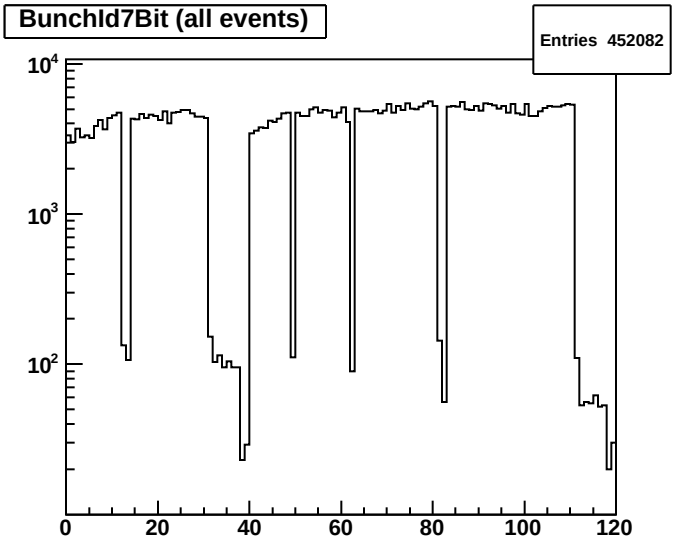

Last DSM Ch3 Input
Entries 7233312
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

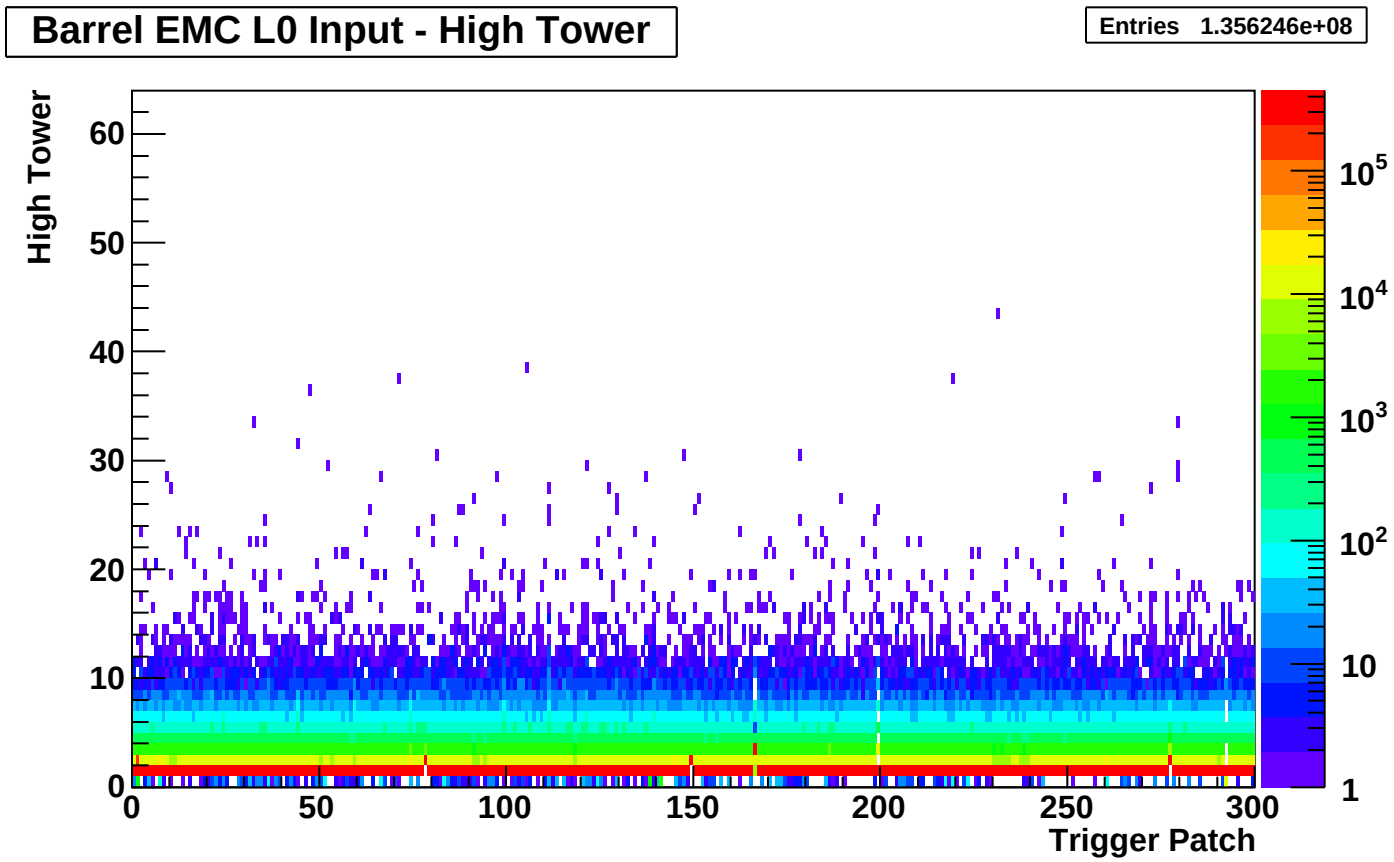

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

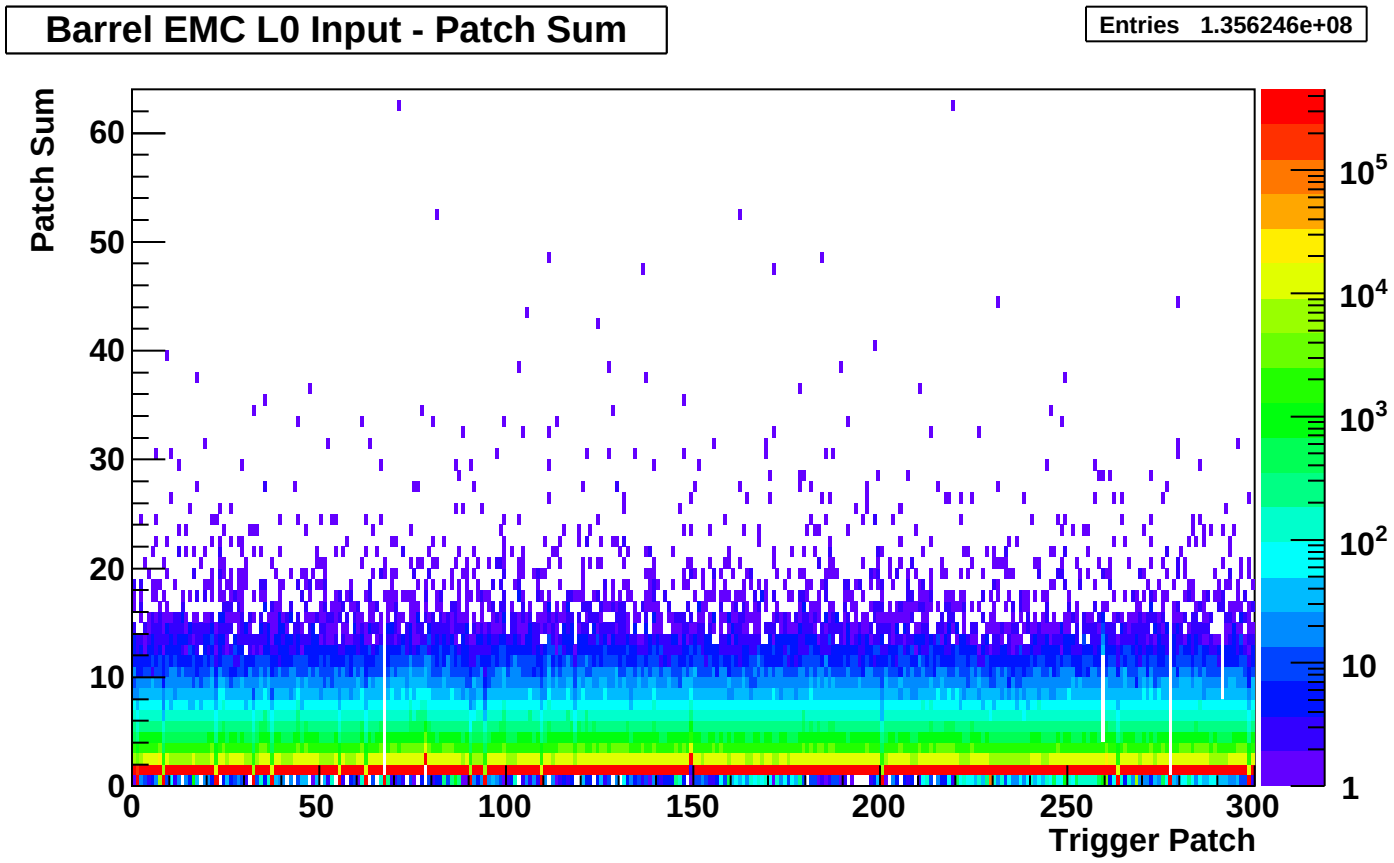

TCU bits
Entries 7233312
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

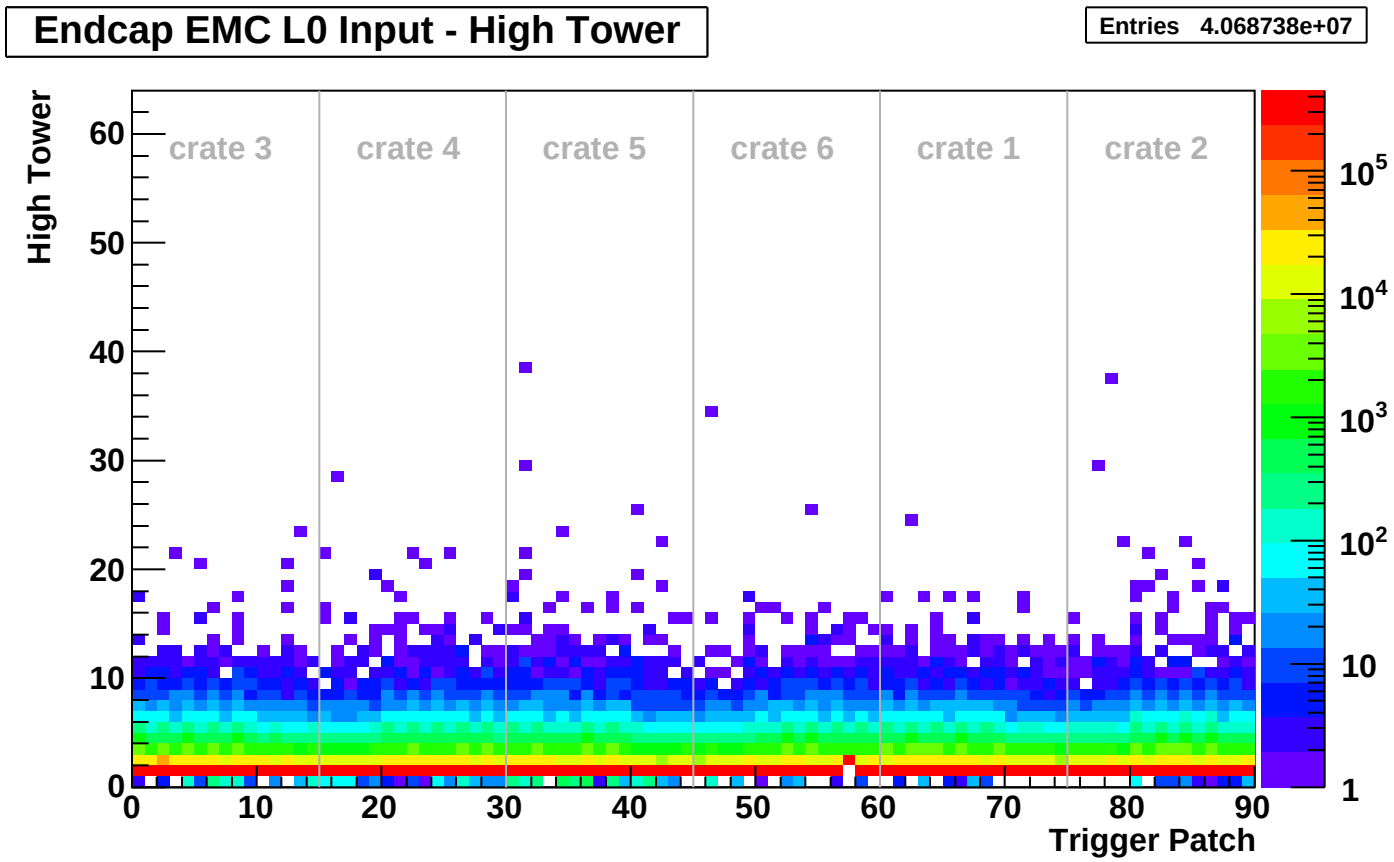

TCU bits
Entries 553722
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

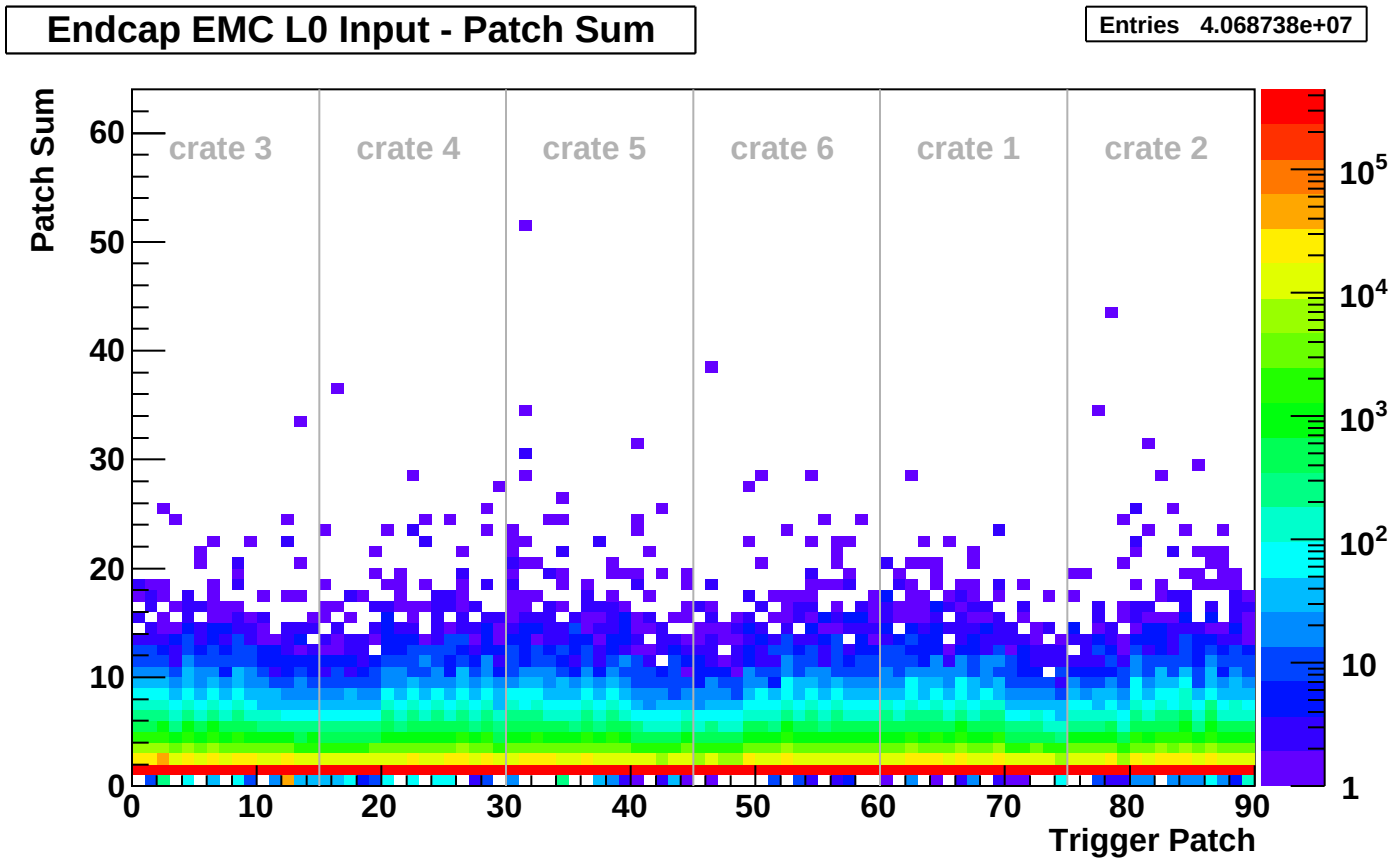

BunchId7Bit (BHT3)
Entries 7

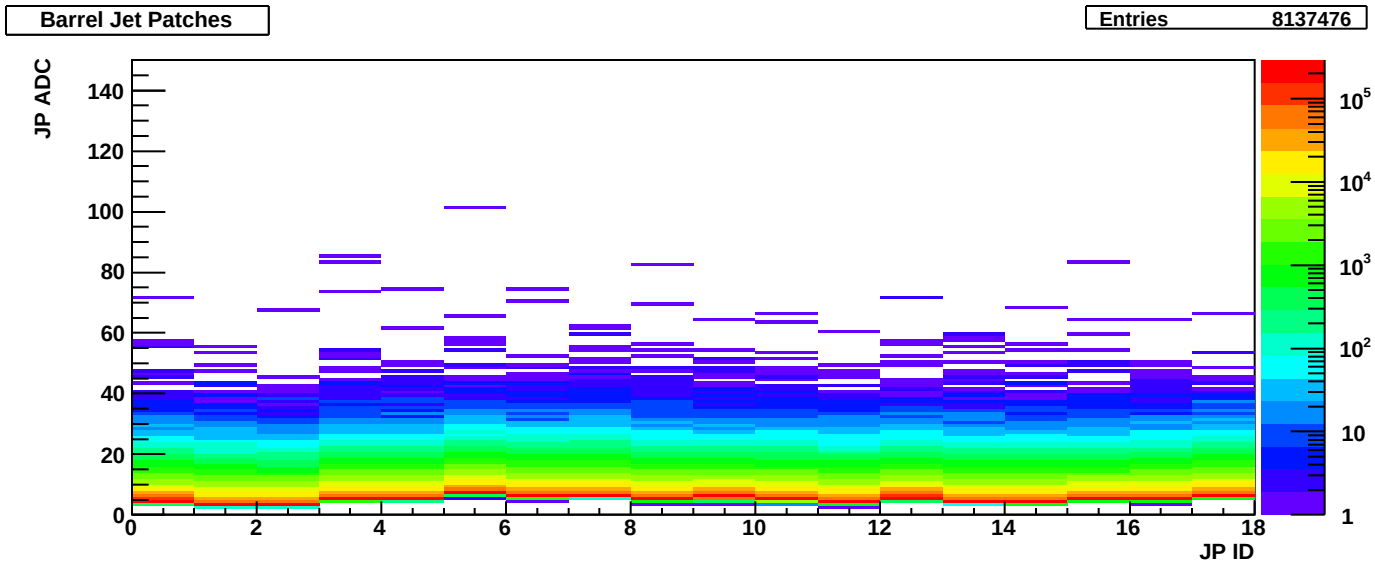

BunchId7Bit (all events)
Entries 452082

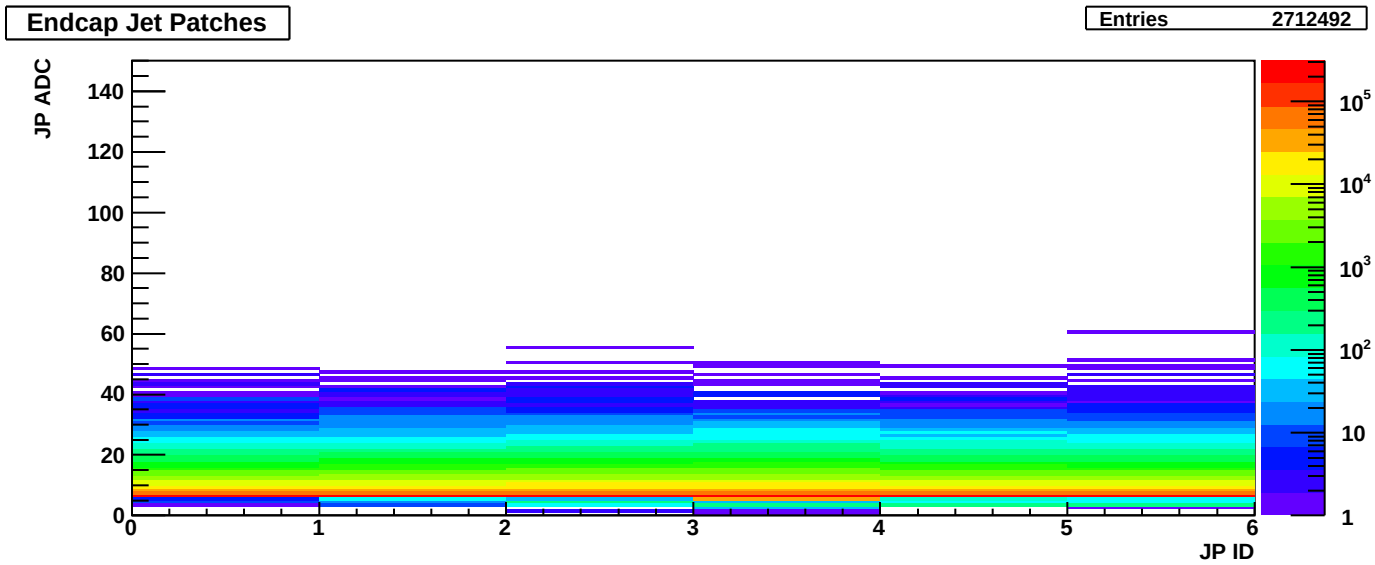

Barrel EMC L0 Input - High Tower
Entries 1.356246e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

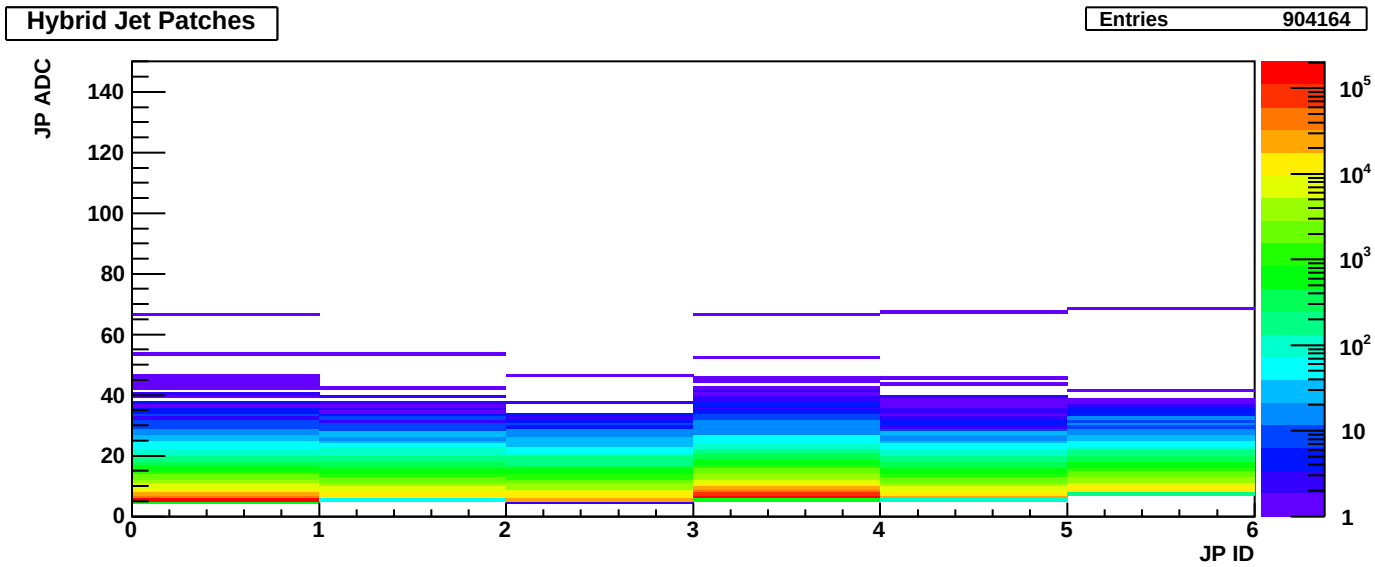

Barrel EMC L0 Input - Patch Sum
Entries 1.356246e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

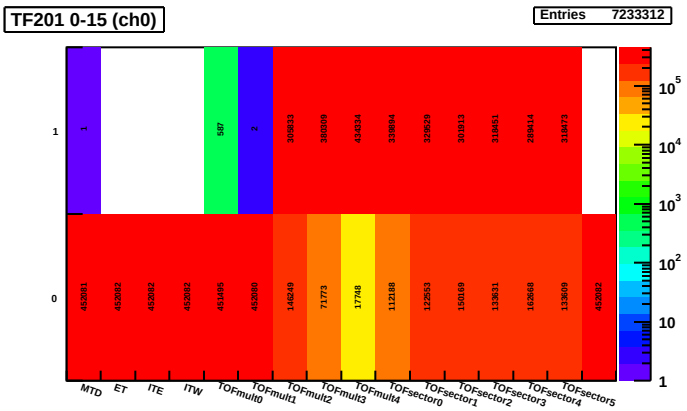

Endcap EMC L0 Input - High Tower
Entries 4.068738e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

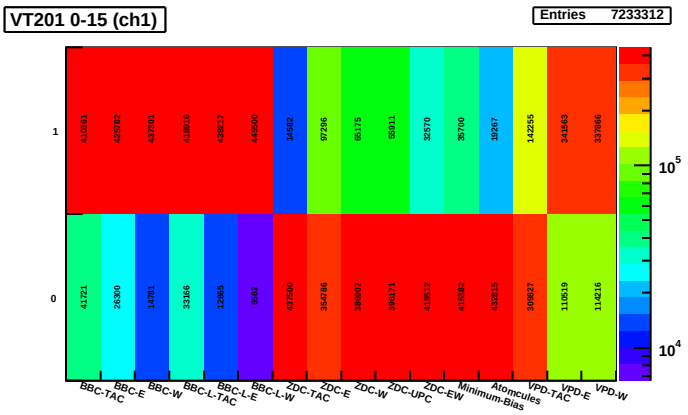

Endcap EMC L0 Input - Patch Sum
Entries 4.068738e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

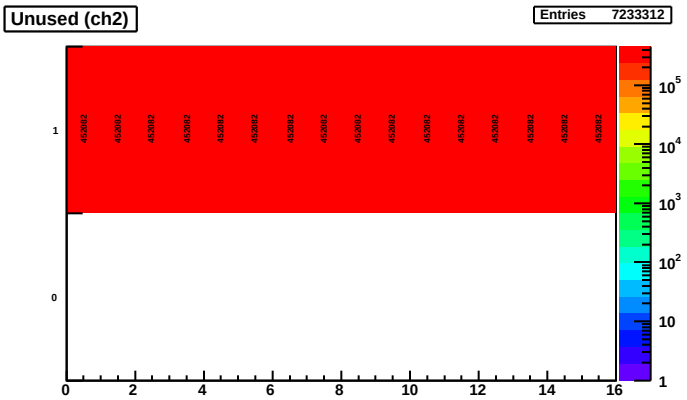

Barrel Jet Patches
Entries 8137476
JP ADC
JP ID

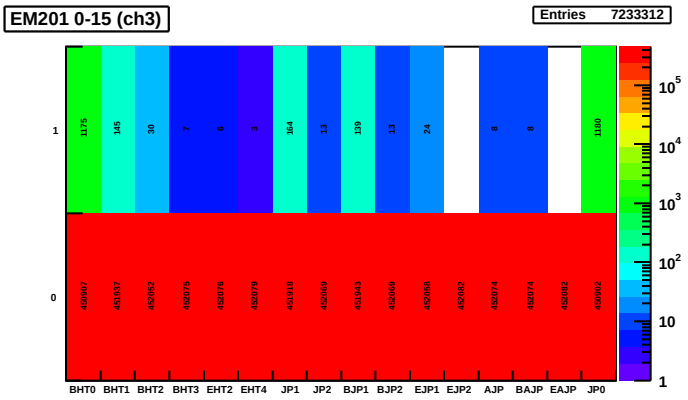

Endcap Jet Patches
Entries 2712492
JP ADC
JP ID

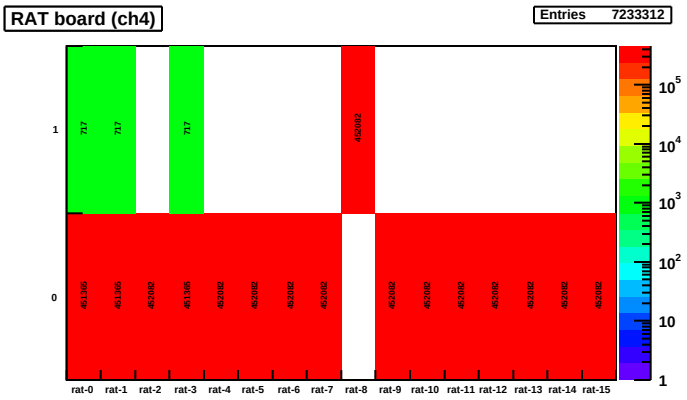

Hybrid Jet Patches
Entries 904164
JP ADC
JP ID

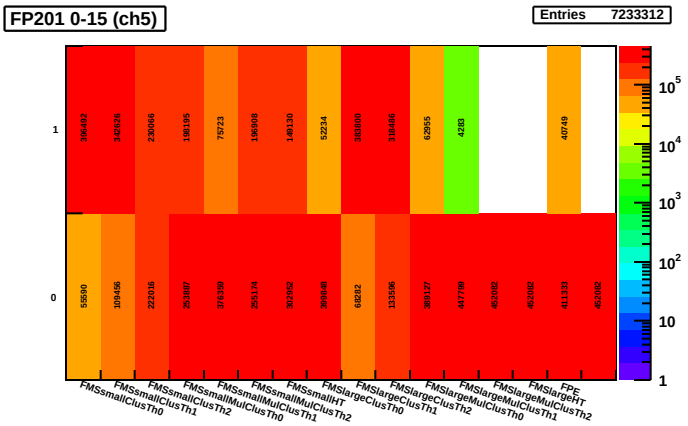

TF201 0-15 (ch0)
Entries 7233312
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

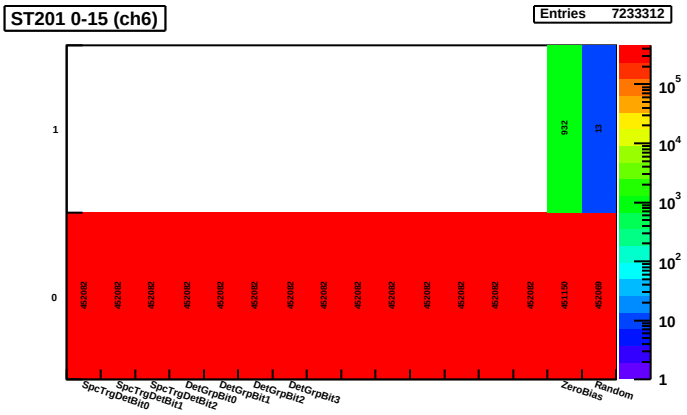

VT201 0-15 (ch1)
Entries 7233312
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

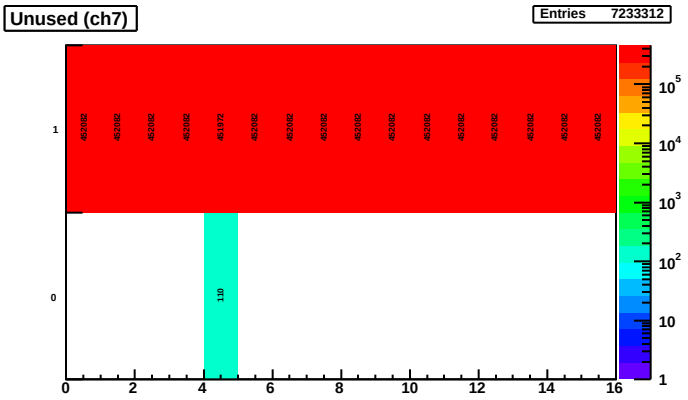

Unused (ch2)
Entries 7233312

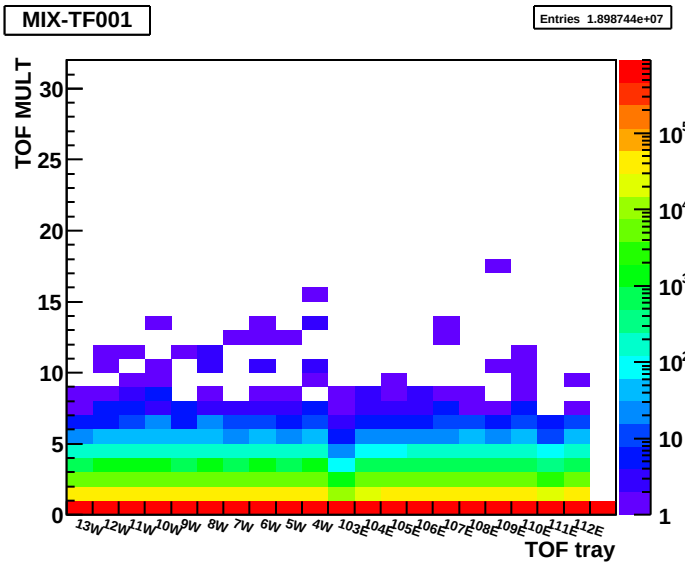

EM201 0-15 (ch3)
Entries 7233312
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

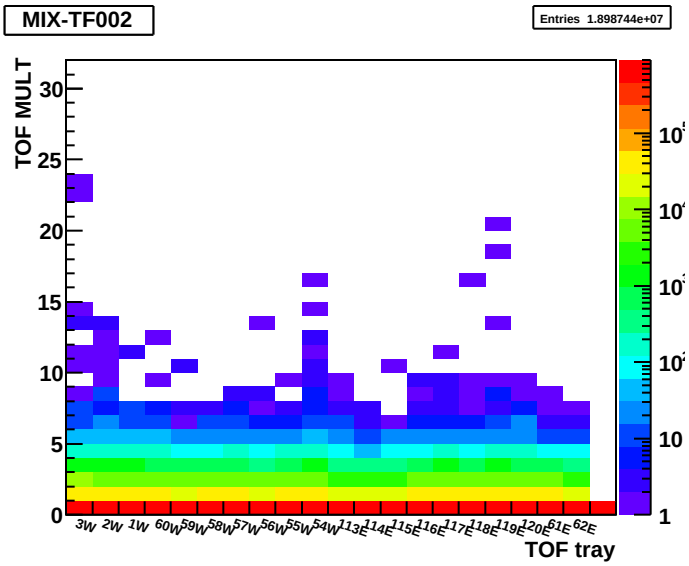

RAT board (ch4)
Entries 7233312
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

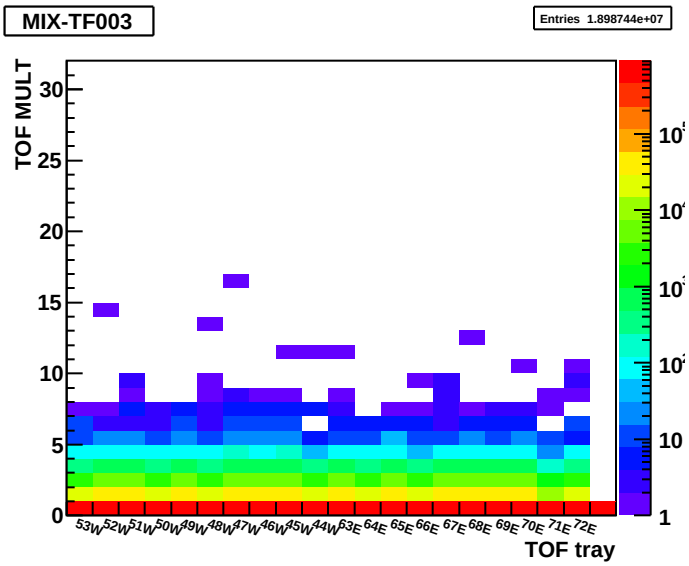

FP201 0-15 (ch5)
Entries 7233312
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

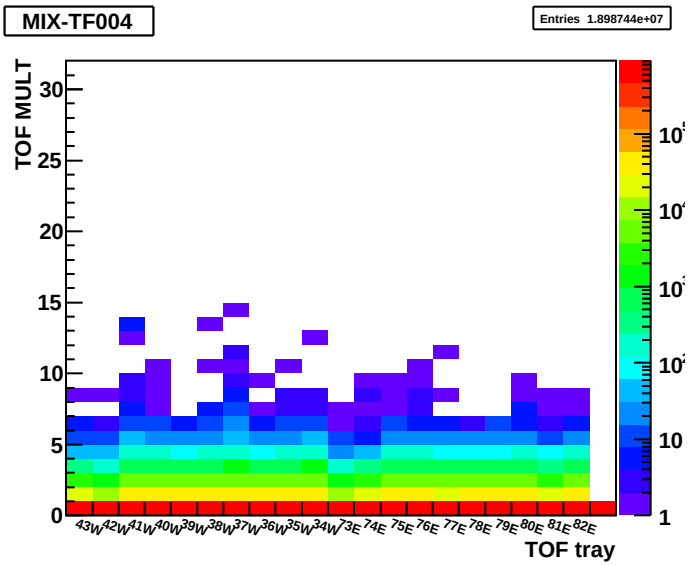

ST201 0-15 (ch6)
Entries 7233312
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetCrpBit0
DetCrpBit1
DetCrpBit2
DetCrpBit3
ZeroBias
Random

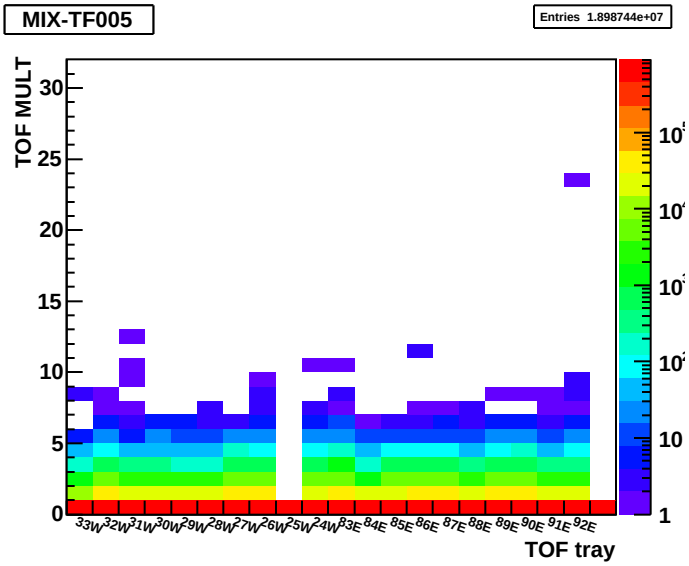

Unused (ch7)
Entries 7233312

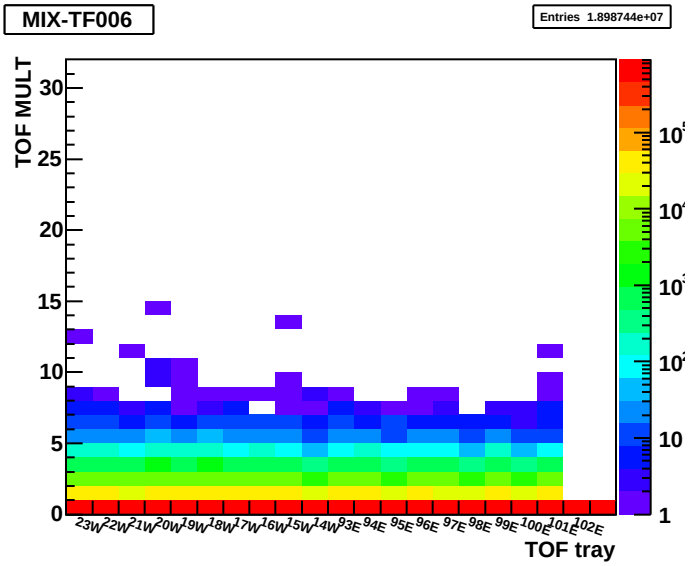

MIX-TF001
Entries 1.898744e+07
TOF MULT
TOF tray

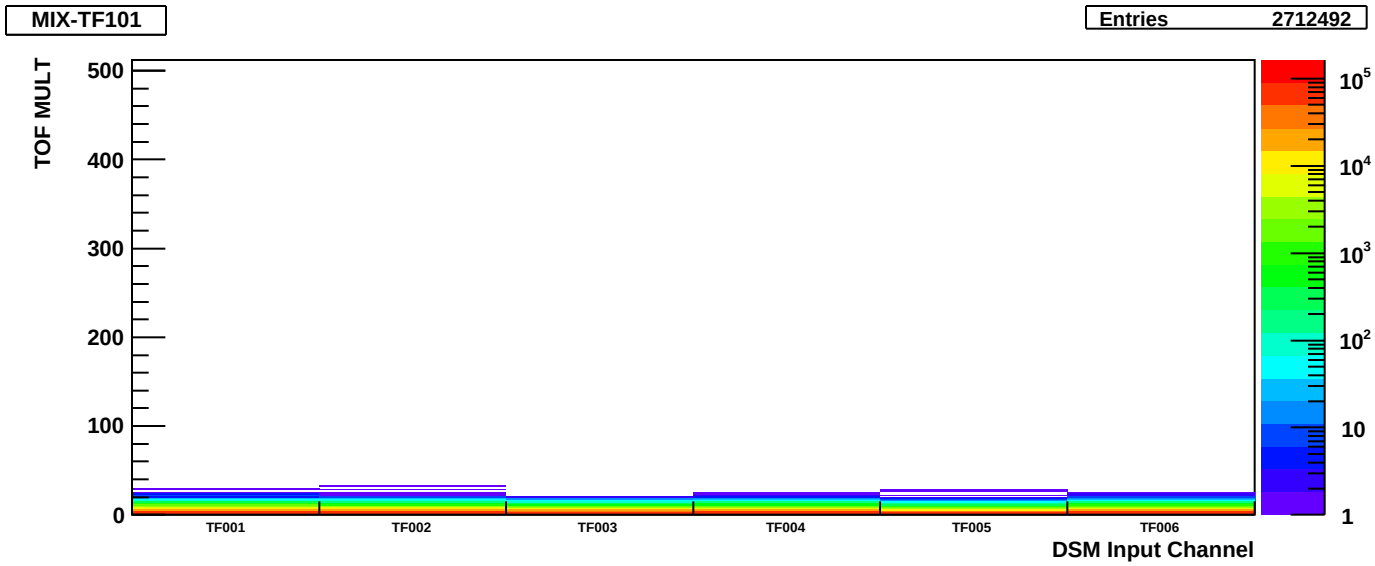

MIX-TF002
Entries 1.898744e+07
TOF MULT
TOF tray

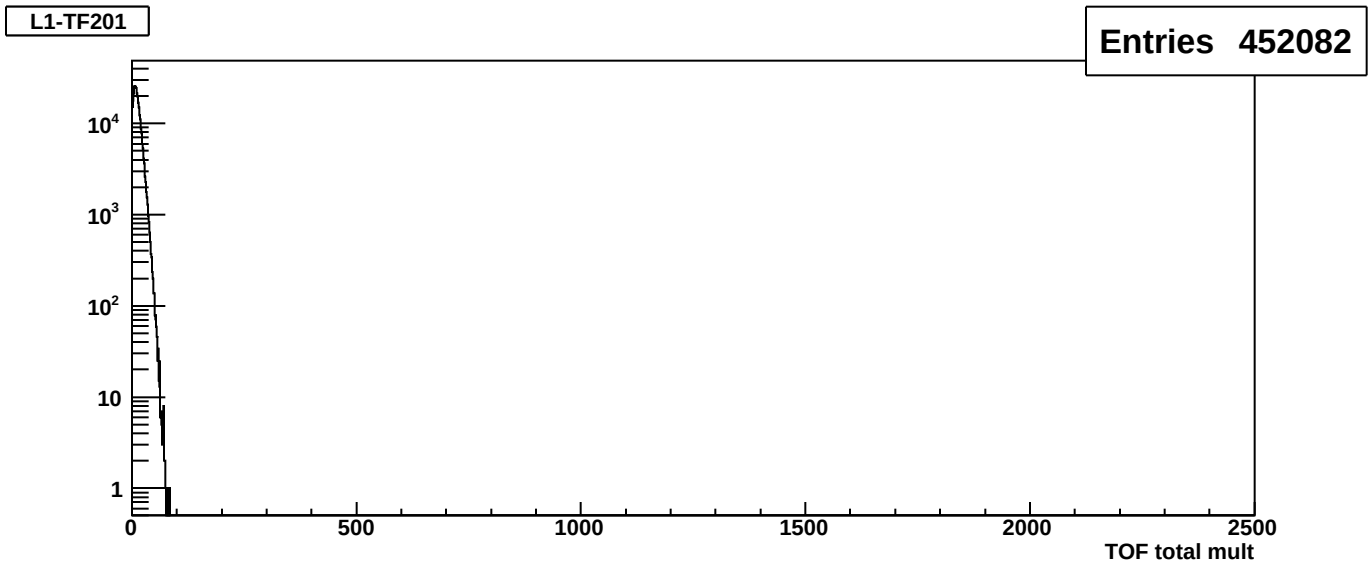

MIX-TF003
Entries 1.898744e+07
TOF MULT
TOF tray

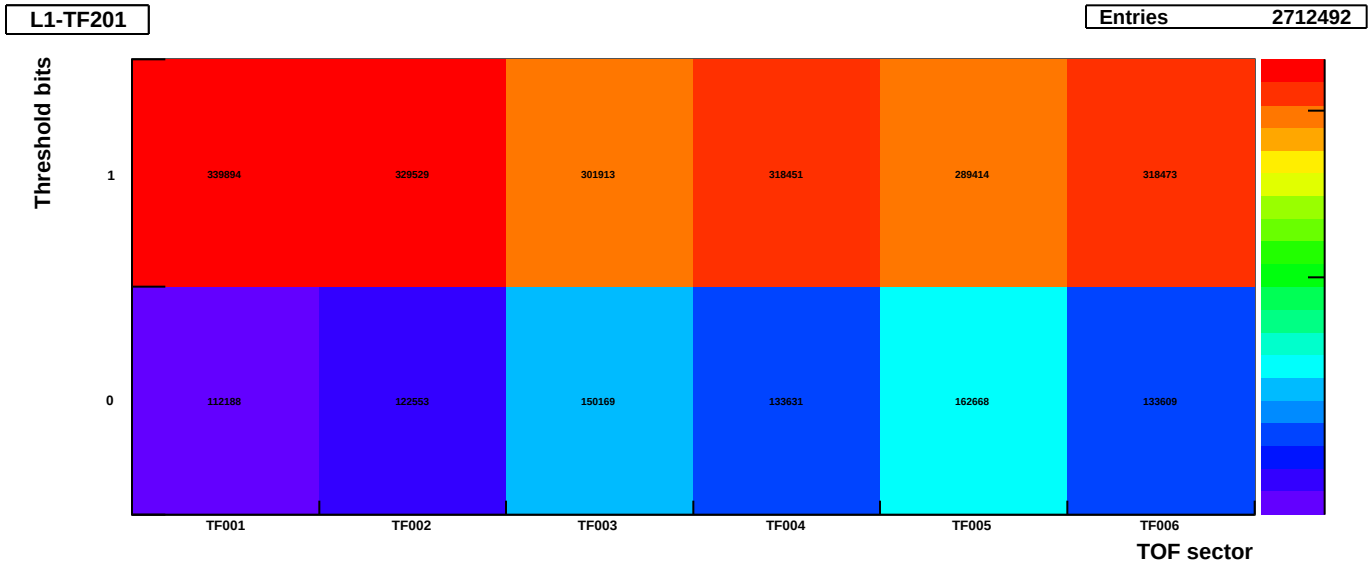

MIX-TF004
Entries 1.898744e+07
TOF MULT
TOF tray

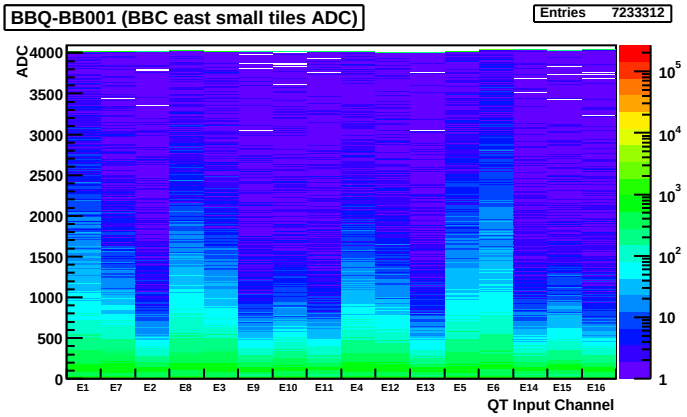

MIX-TF005
Entries 1.898744e+07
TOF MULT
TOF tray

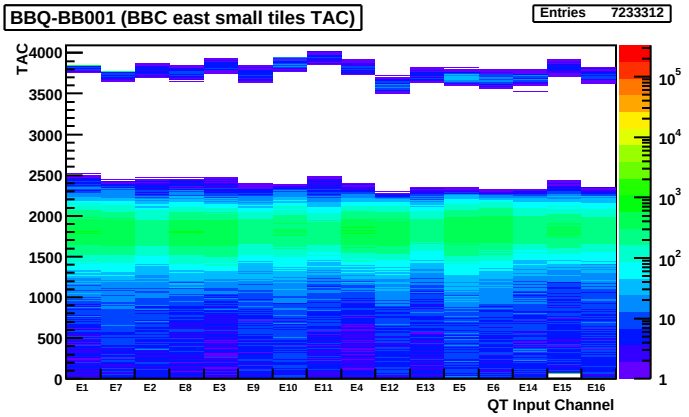

MIX-TF006
Entries 1.898744e+07
TOF MULT
TOF tray

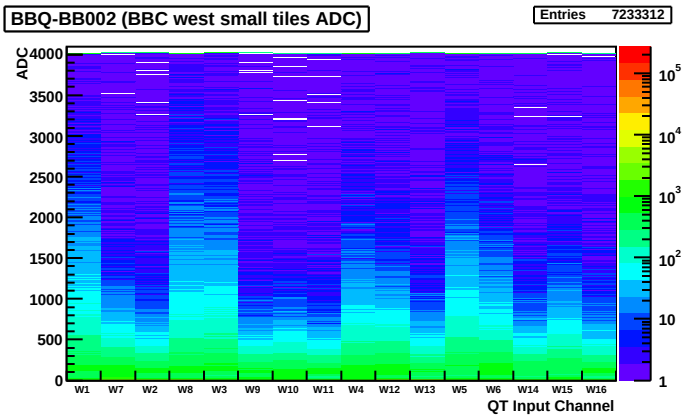

MIX-TF101
Entries 2712492
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

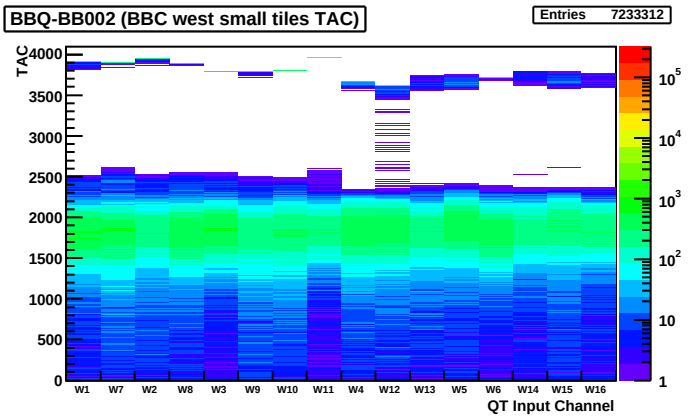

L1-TF201
Entries 452082
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

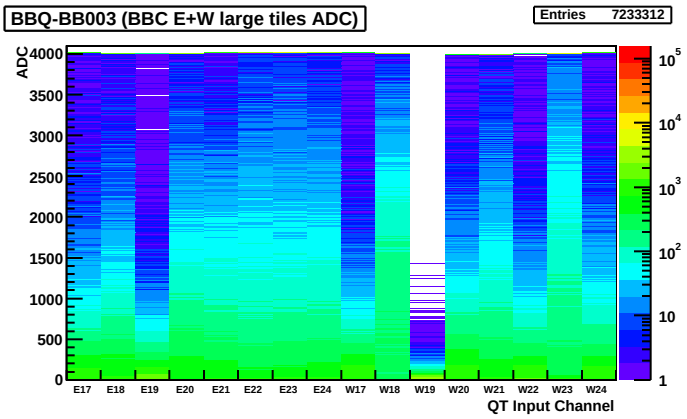

L1-TF201
Entries 2712492
Threshold bits
1
0
339894
329529
301913
318451
289414
318473
112188
122553
150169
133631
162668
133609
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

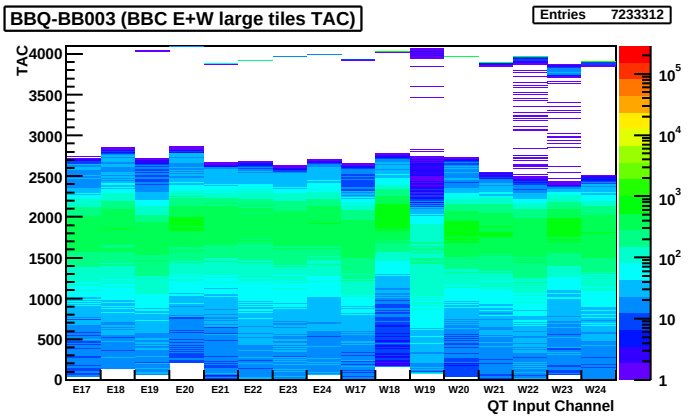

BBQ-BB001 (BBC east small tiles ADC)
Entries 7233312
ADC
QT Input Channel

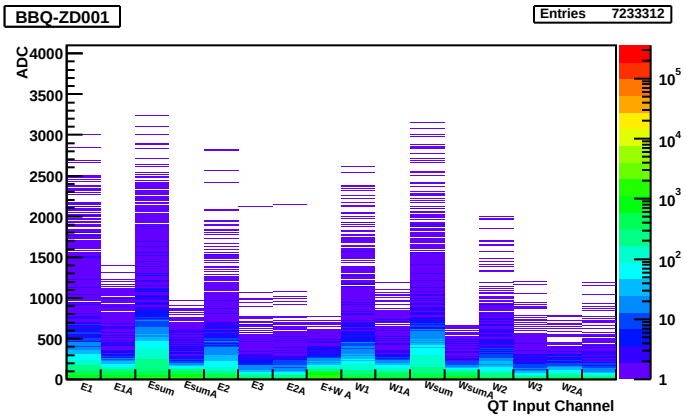

BBQ-BB001 (BBC east small tiles TAC)
Entries 7233312
TAC
QT Input Channel

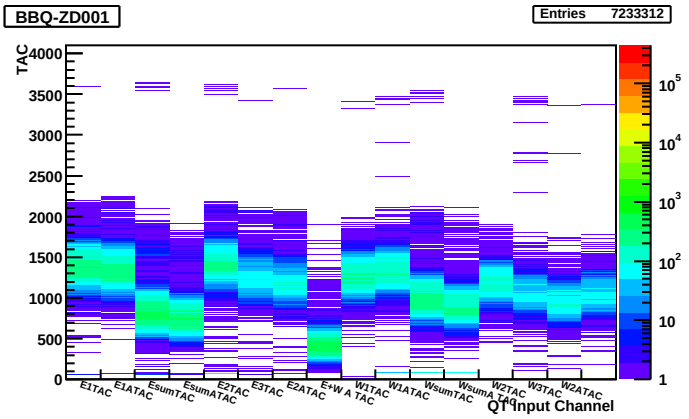

BBQ-BB002 (BBC west small tiles ADC)
Entries 7233312
ADC
QT Input Channel

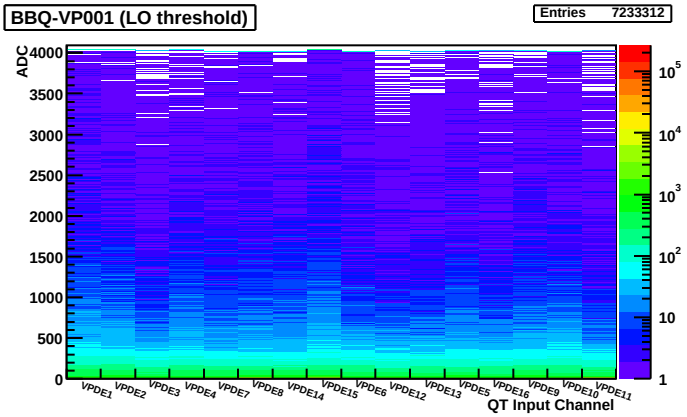

BBQ-BB002 (BBC west small tiles TAC)
Entries 7233312
TAC
QT Input Channel

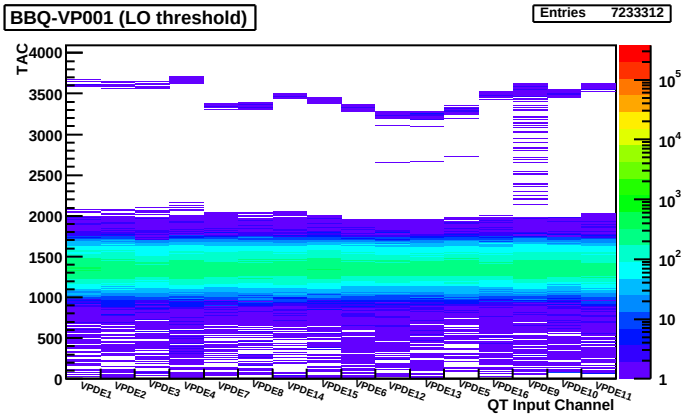

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7233312
ADC
QT Input Channel

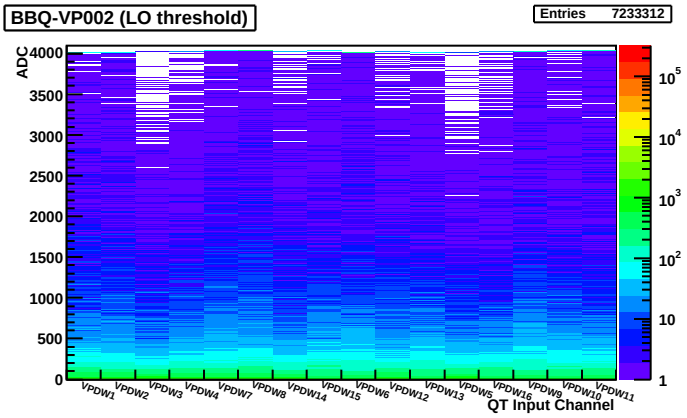

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7233312
TAC
QT Input Channel

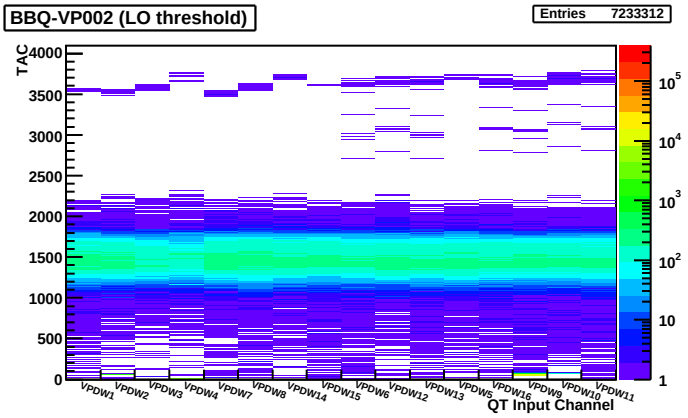

BBQ-ZD001
Entries 7233312
ADC
QT Input Channel

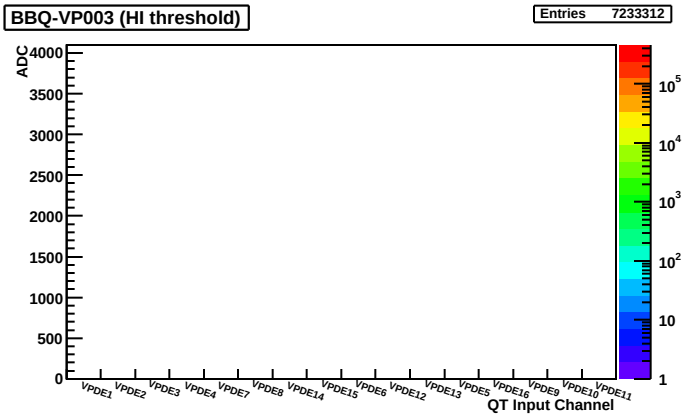

BBQ-ZD001
Entries 7233312
TAC
QT Input Channel

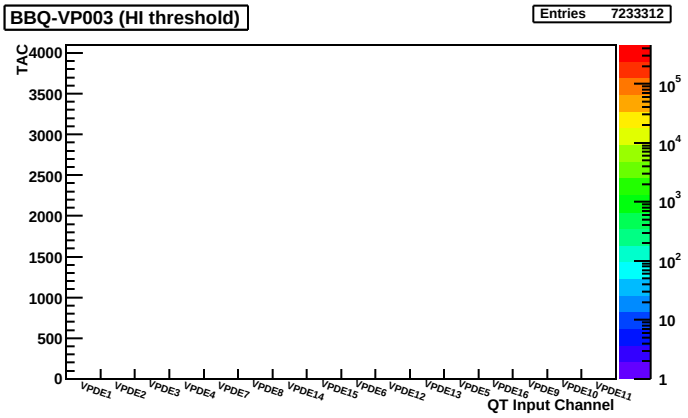

BBQ-VP001 (LO threshold)
Entries 7233312
ADC
QT Input Channel

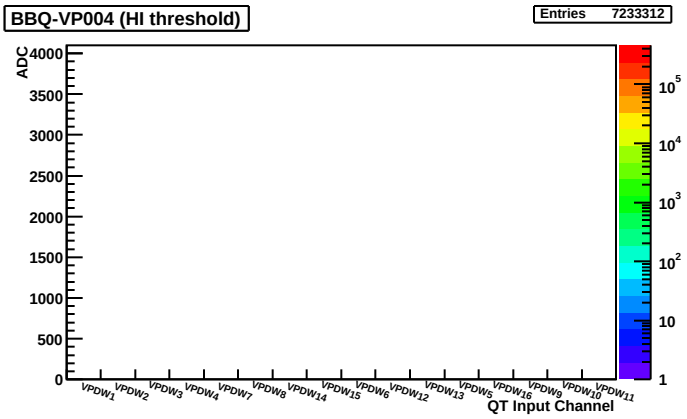

BBQ-VP001 (LO threshold)
Entries 7233312
TAC
QT Input Channel

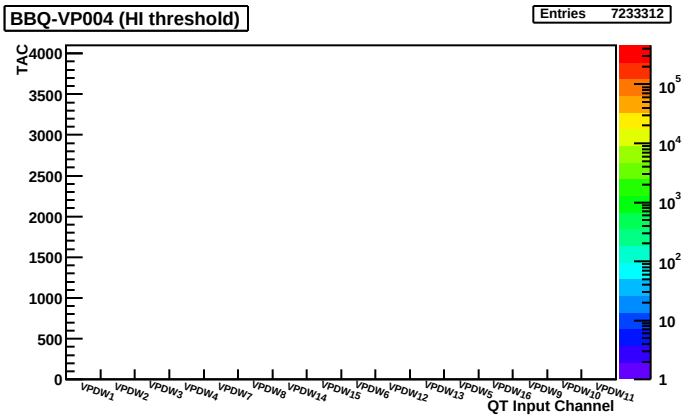

BBQ-VP002 (LO threshold)
Entries 7233312
ADC
QT Input Channel

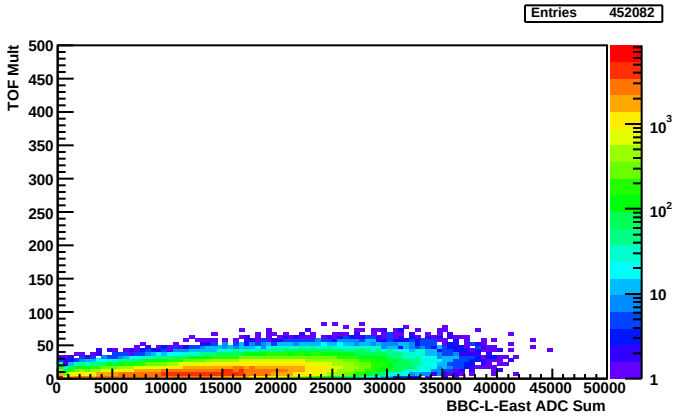

BBQ-VP002 (LO threshold)
Entries 7233312
TAC
QT Input Channel

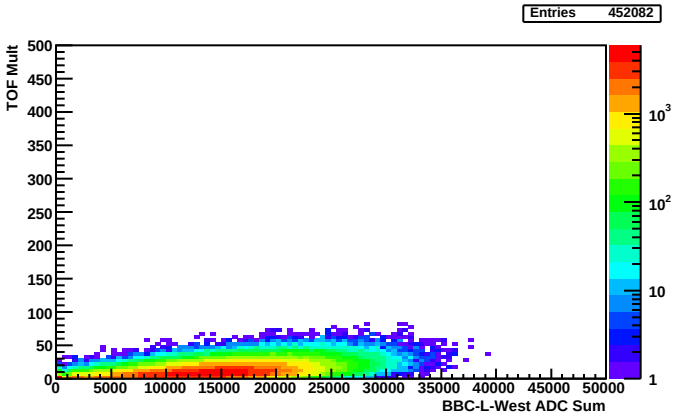

BBQ-VP003 (HI threshold)
Entries 7233312
ADC
QT Input Channel

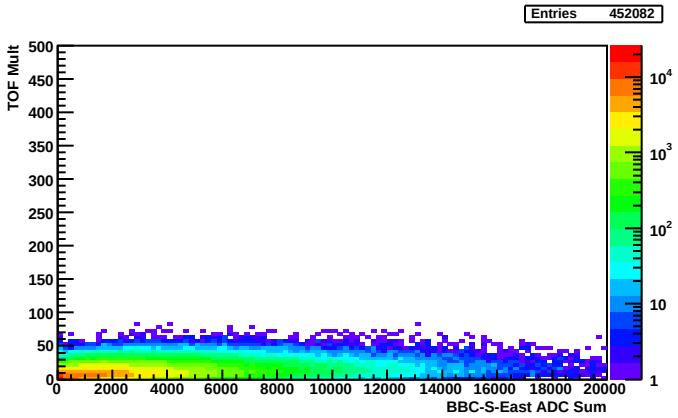

BBQ-VP003 (HI threshold)
Entries 7233312
TAC
QT Input Channel

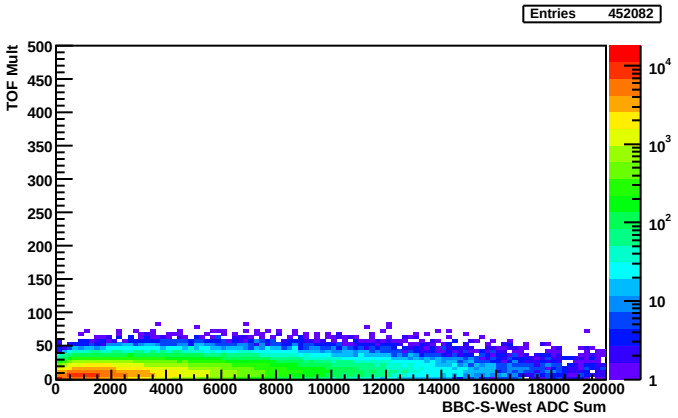

BBQ-VP004 (HI threshold)
Entries 7233312
ADC
QT Input Channel

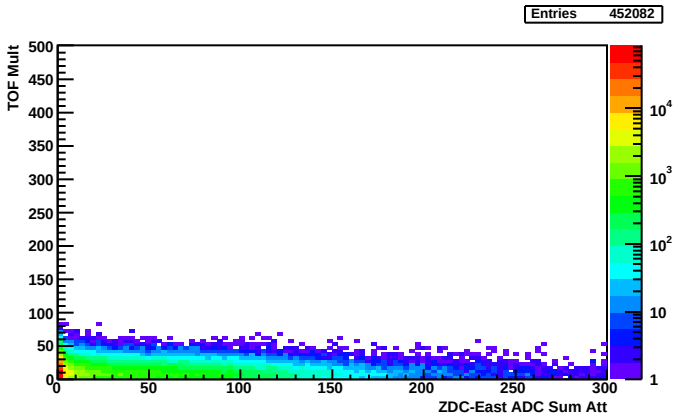

BBQ-VP004 (HI threshold)
Entries 7233312
TAC
QT Input Channel

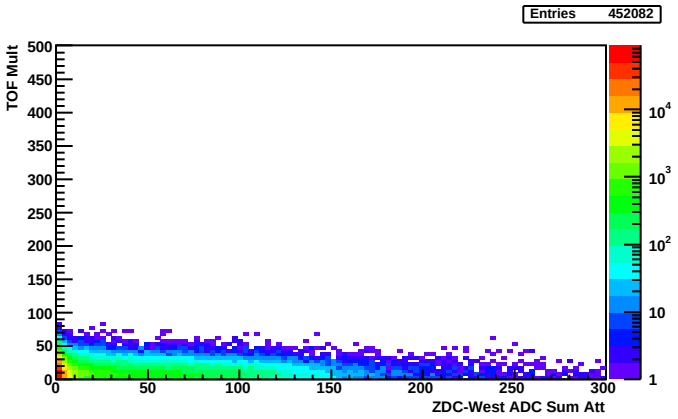

Entries 452082
TOF Mult
BBC-L-East ADC Sum

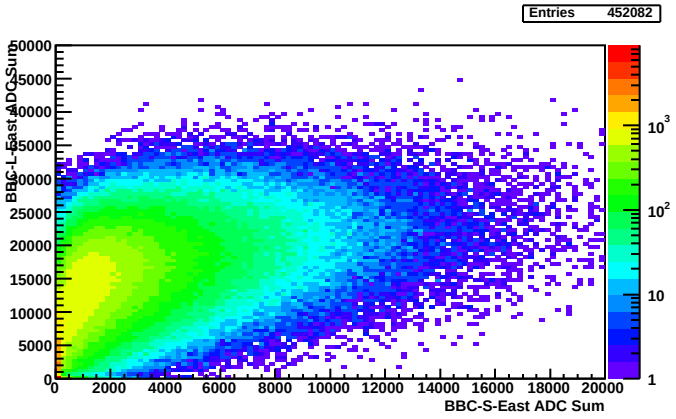

Entries 452082
TOF Mult
BBC-L-West ADC Sum

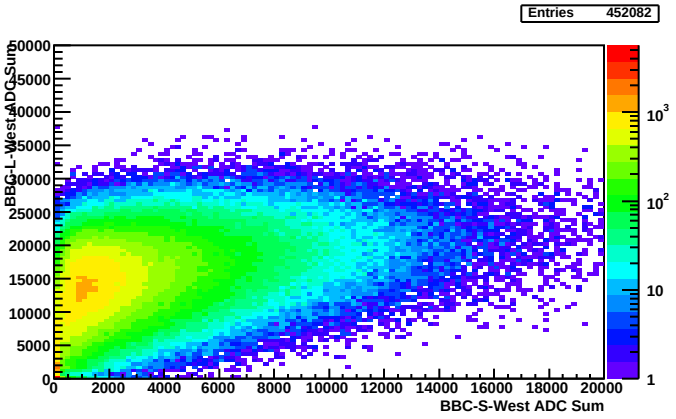

Entries 452082
TOF Mult
BBC-S-East ADC Sum

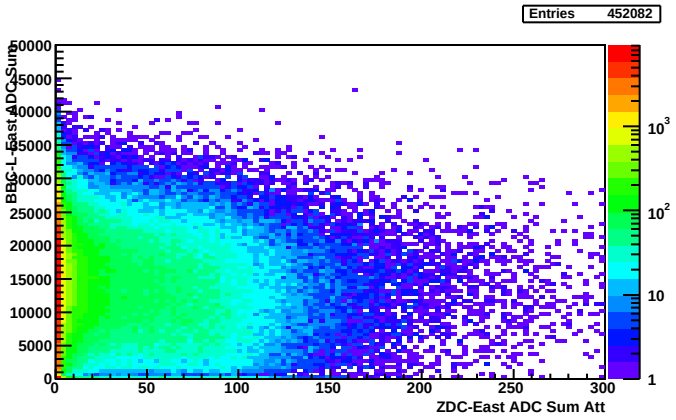

Entries 452082
TOF Mult
BBC-S-West ADC Sum

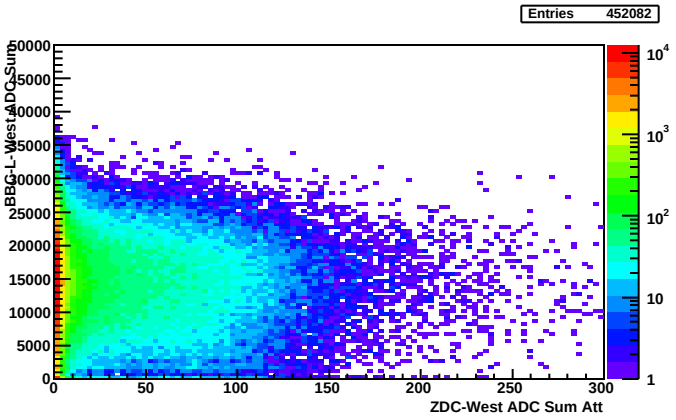

Entries 452082
TOF Mult
ZDC-East ADC Sum Att

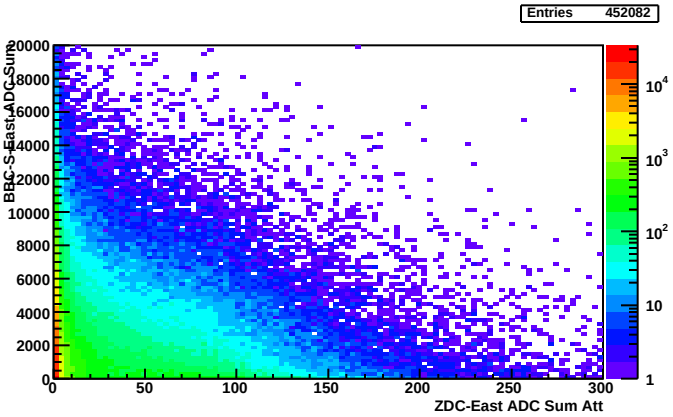

Entries 452082
TOF Mult
ZDC-West ADC Sum Att

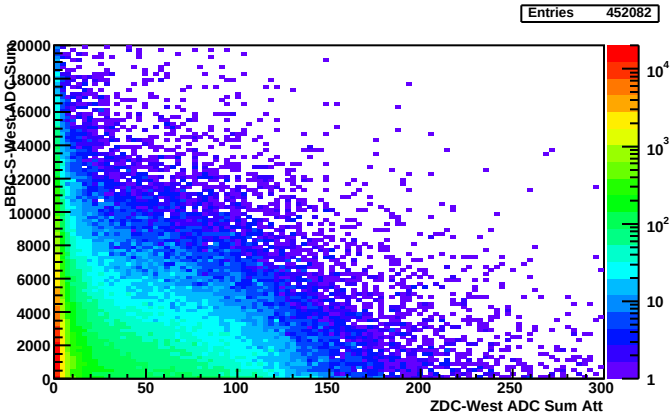

Entries 452082
BBC-L-East ADC Sum
BBC-S-East ADC Sum

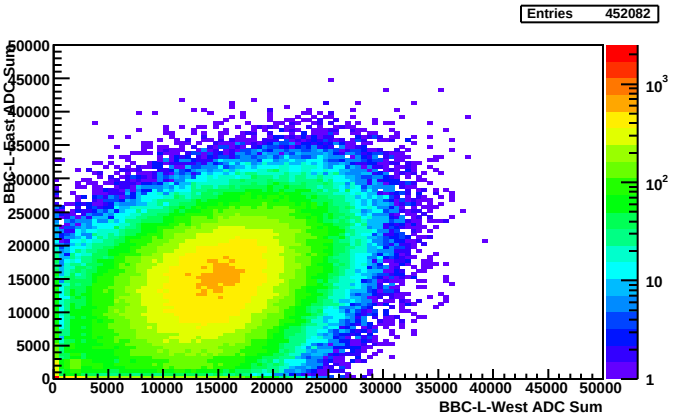

Entries 452082
BBC-L-West ADC Sum
BBC-S-West ADC Sum

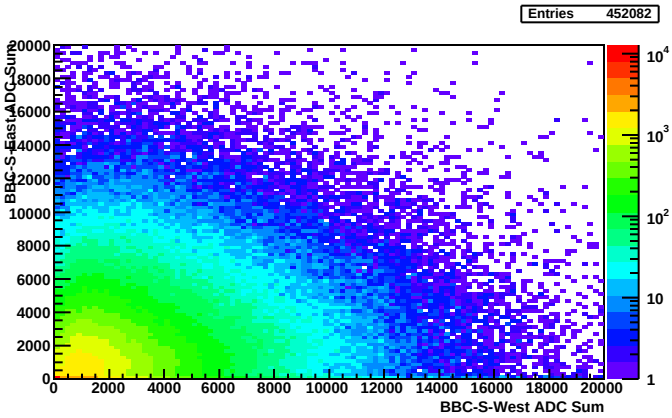

Entries 452082
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

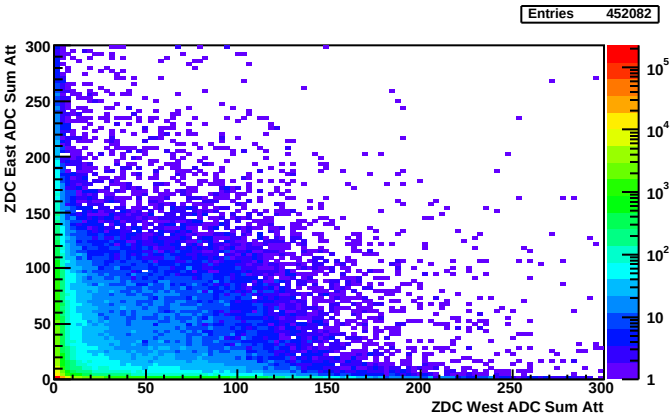

Entries 452082
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

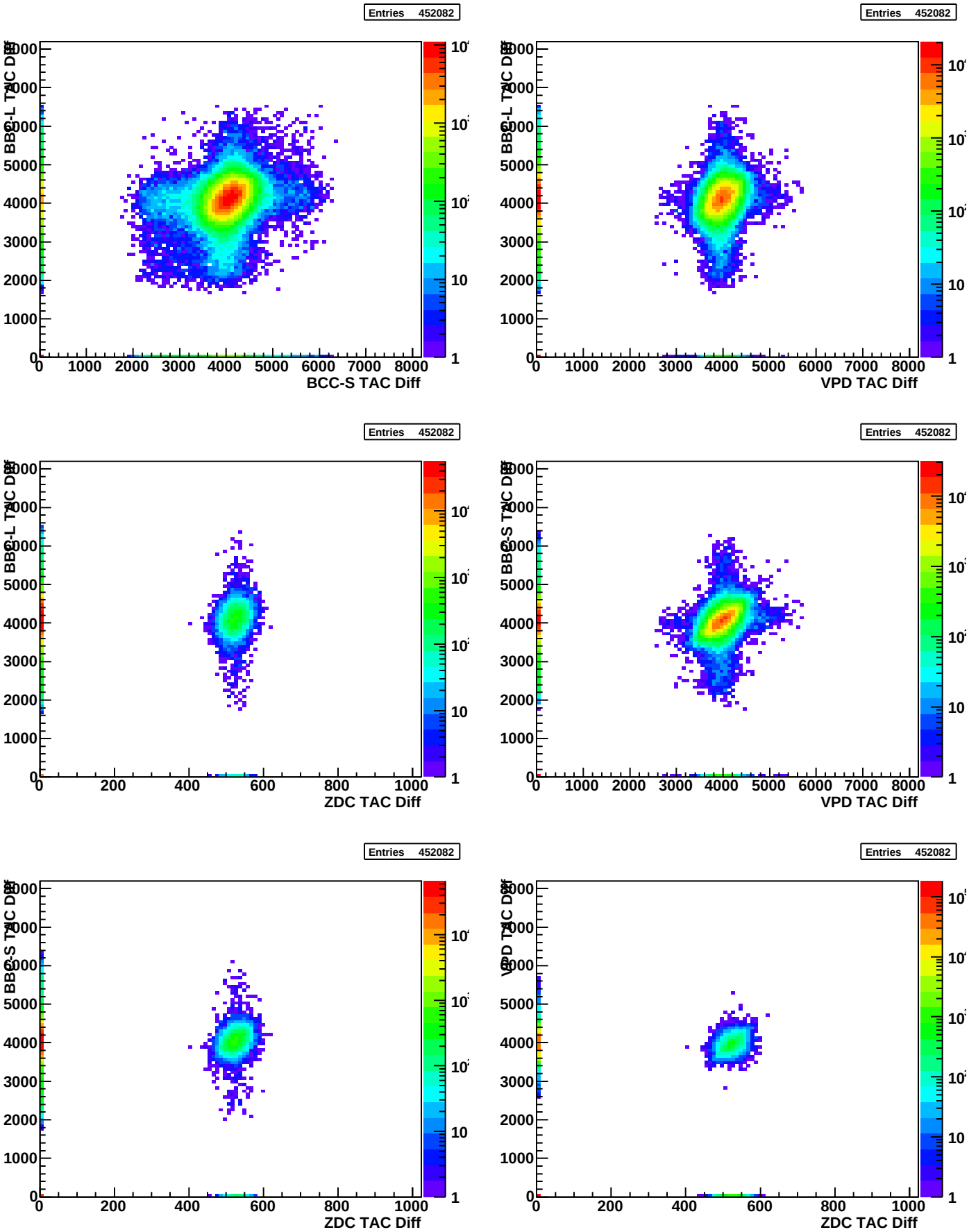

Entries 452082
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

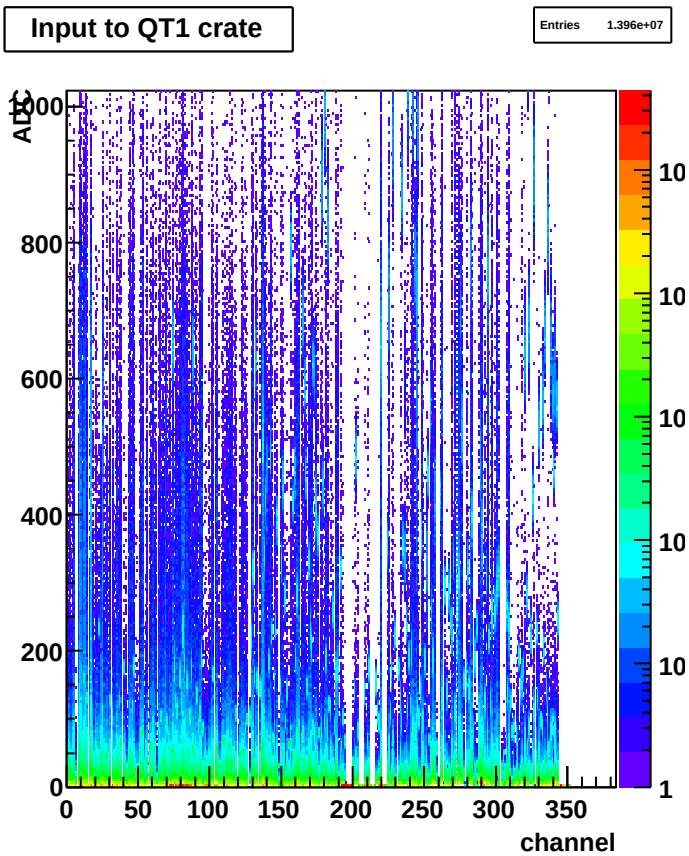

Entries 452082
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

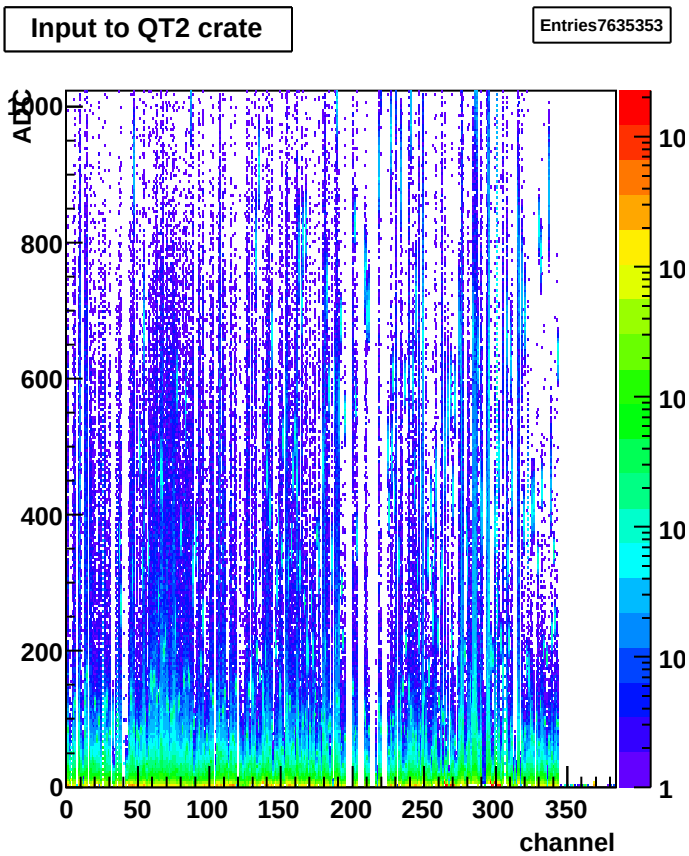

Entries 452082
BBC-L-East ADC Sum
BBC-L-West ADC Sum

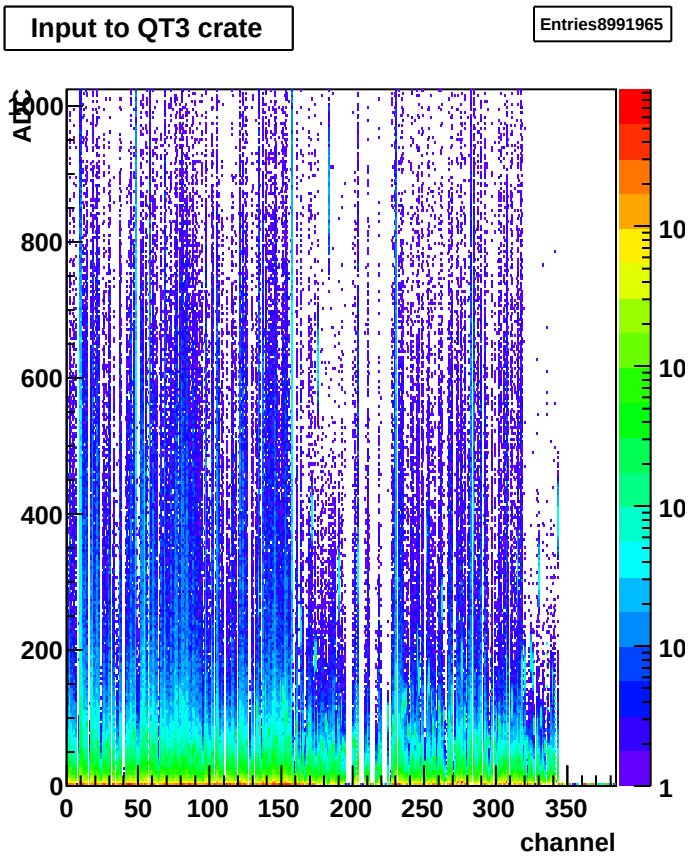

Entries 452082
BBC-S-East ADC Sum
BBC-S-West ADC Sum

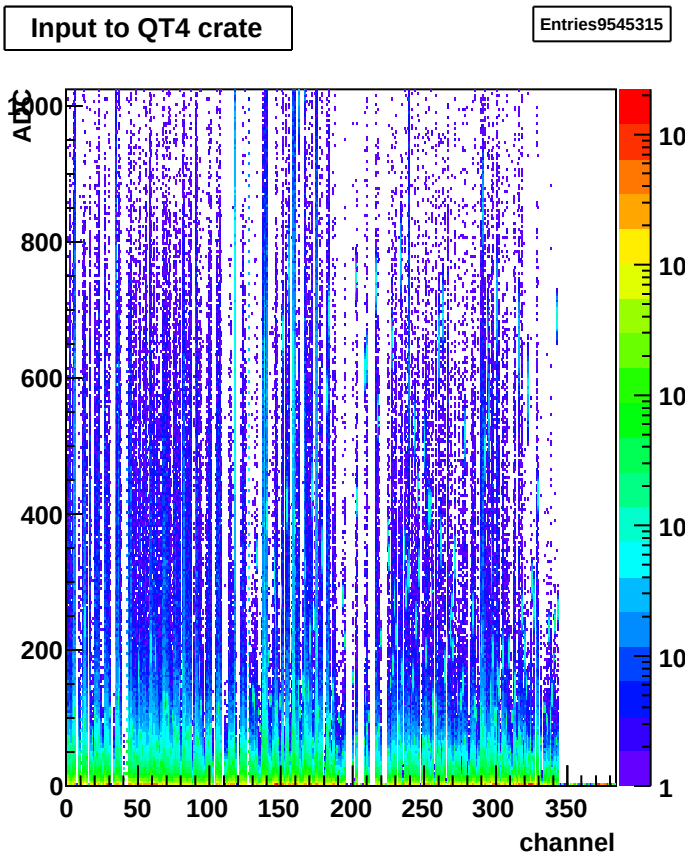

Entries 452082
ZDC East ADC Sum Att
ZDC West ADC Sum Att

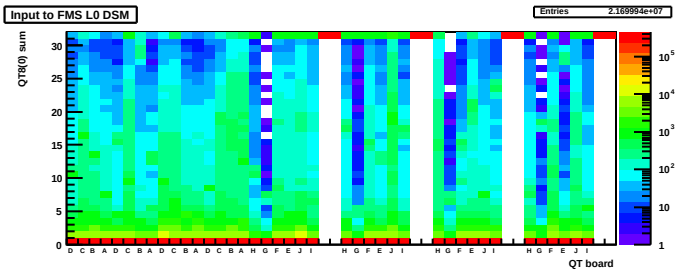

Entries 452082
BBC-L TAC Diff
BCC-S TAC Diff
Entries 452082
BBC-L TAC Diff
VPD TAC Diff
Entries 452082
BBC-L TAC Diff
ZDC TAC Diff
Entries 452082
BBC-S TAC Diff
VPD TAC Diff
Entries 452082
BBC-S TAC Diff
ZDC TAC Diff
Entries 452082
VPD TAC Diff
ZDC TAC Diff

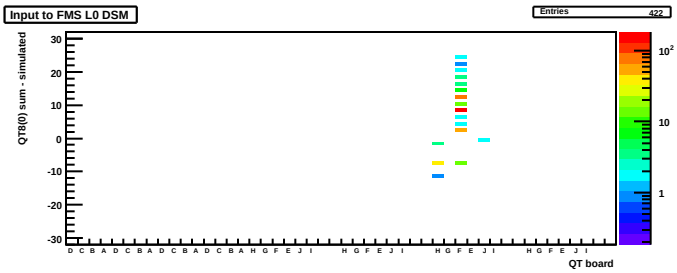

Input to QT1 crate
Entries 1.396e+07
ADC
channel

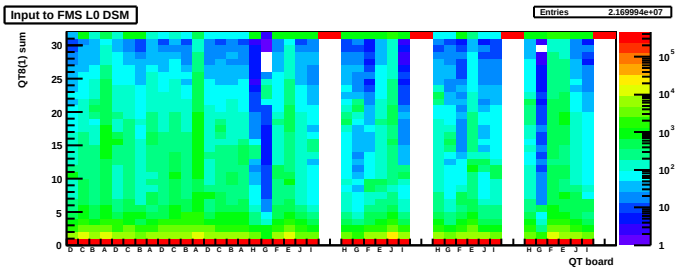

Input to QT2 crate
Entries7635353
ADC
channel

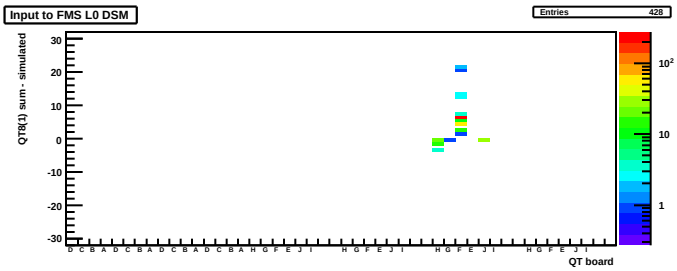

Input to QT3 crate
Entries8991965
ADC
channel

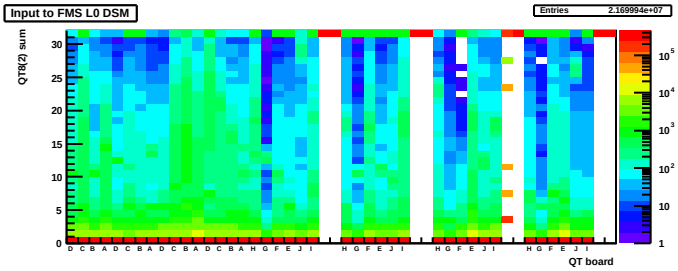

Input to QT4 crate
Entries9545315
ADC
channel

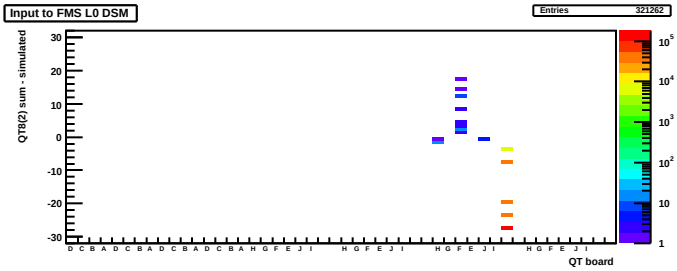

Input to FMS L0 DSM
Entries 2.169994e+07
QT8(0) sum
QT board

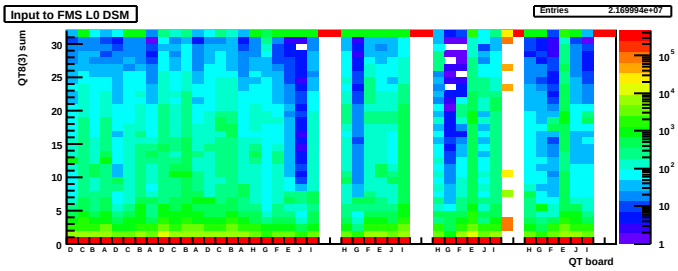

Input to FMS L0 DSM
Entries 422
QT8(0) sum - simulated
QT board

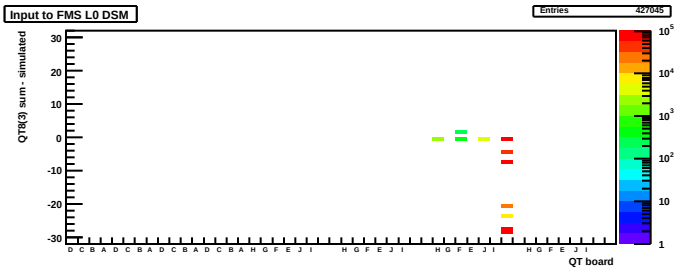

Input to FMS L0 DSM
Entries 2.169994e+07
QT8(1) sum
QT board

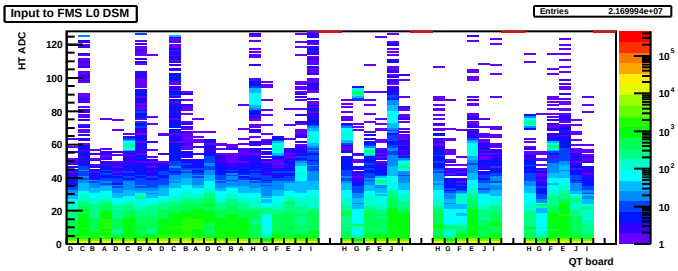

Input to FMS L0 DSM
Entries 428
QT8(1) sum - simulated
QT board

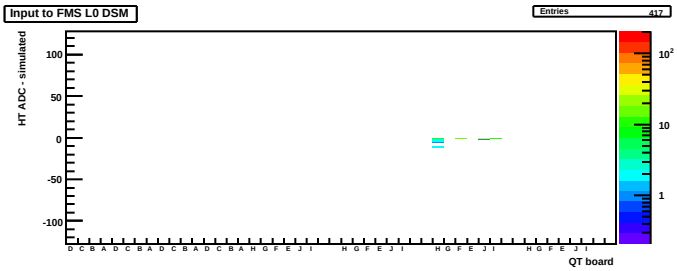

Input to FMS L0 DSM
Entries 2.169994e+07
QT8(2) sum
QT board

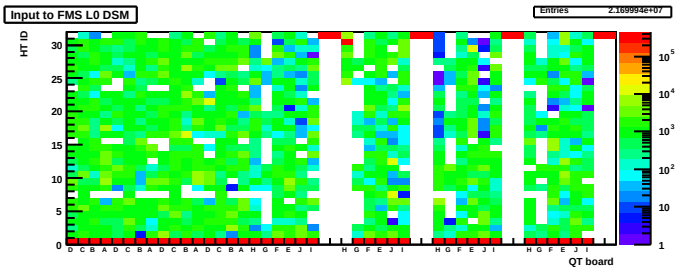

Input to FMS L0 DSM
Entries 321262
QT8(2) sum - simulated
QT board

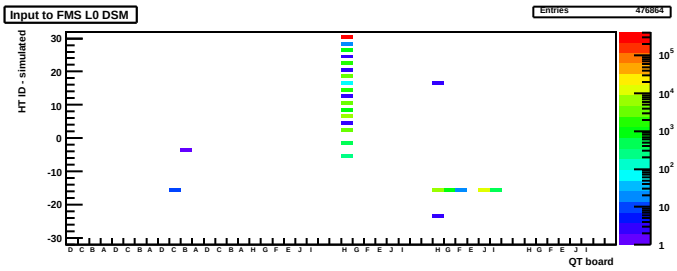

Input to FMS L0 DSM
Entries 2.169994e+07
QT8(3) sum
QT board

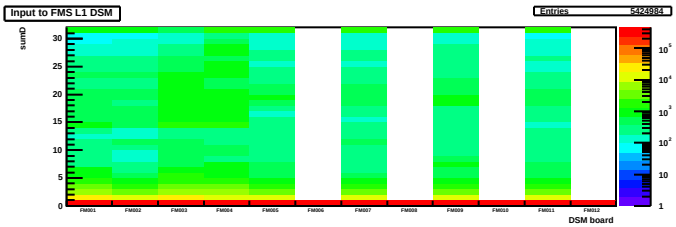

Input to FMS L0 DSM
Entries 427045
QT8(3) sum - simulated
QT board

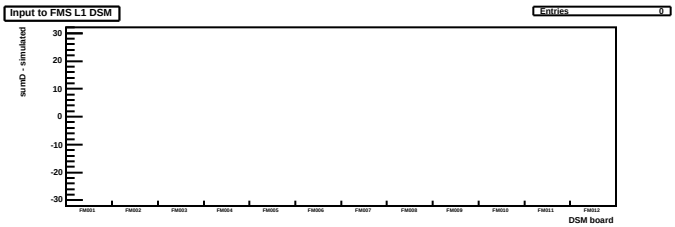

Input to FMS L0 DSM
Entries 2.169994e+07
HT ADC
QT board

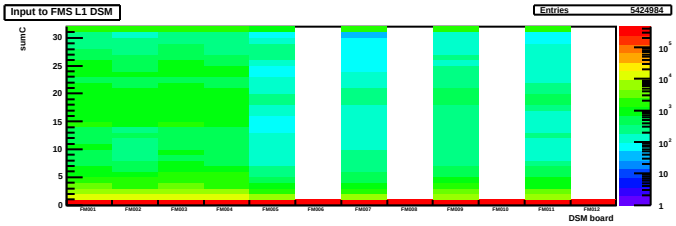

Input to FMS L0 DSM
Entries 417
HT ADC - simulated
QT board

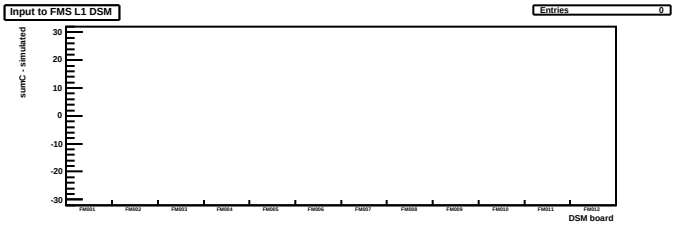

Input to FMS L0 DSM
Entries 2.169994e+07
HT ID
QT board

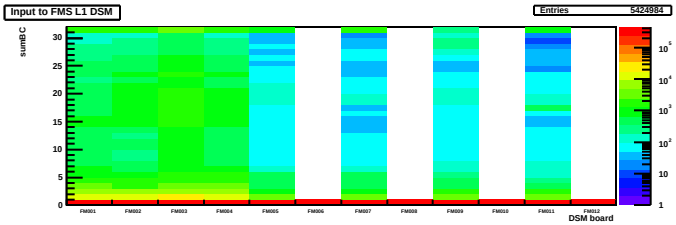

Input to FMS L0 DSM
Entries 476864
HT ID - simulated
QT board

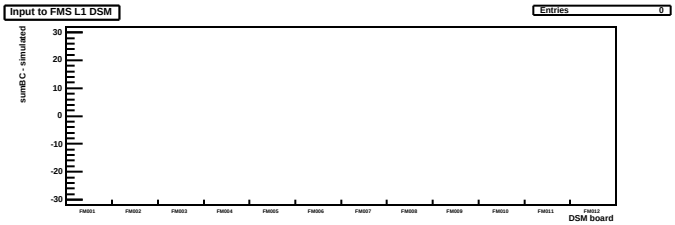

Input to FMS L1 DSM
Entries 5424984
sumD
DSM board

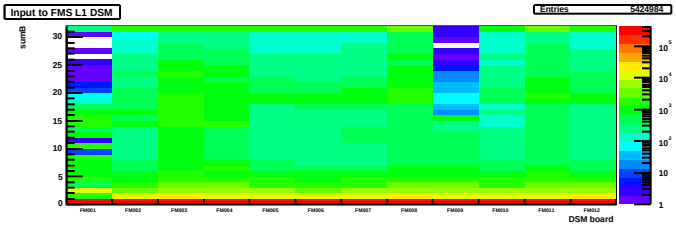

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

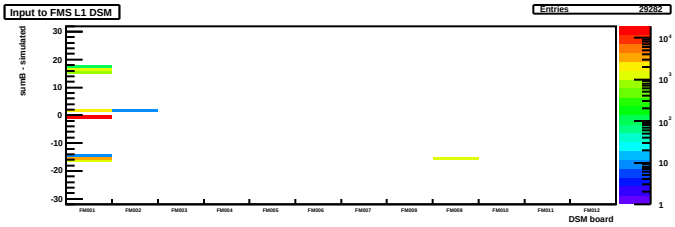

Input to FMS L1 DSM
Entries 5424984
sumC
DSM board

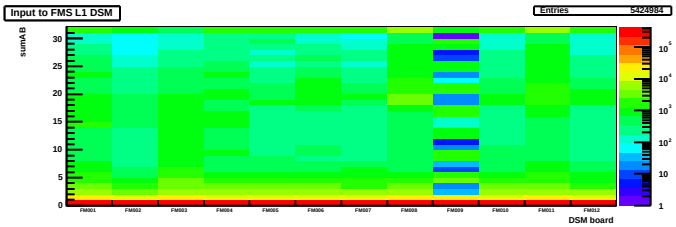

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

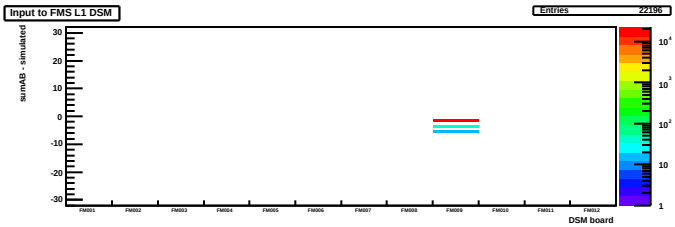

Input to FMS L1 DSM
Entries 5424984
sumBC
DSM board

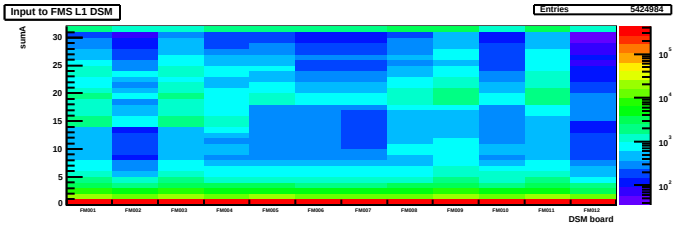

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

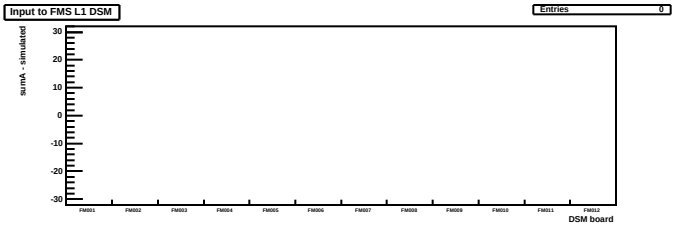

Input to FMS L1 DSM
Entries 5424984
sumB
DSM board

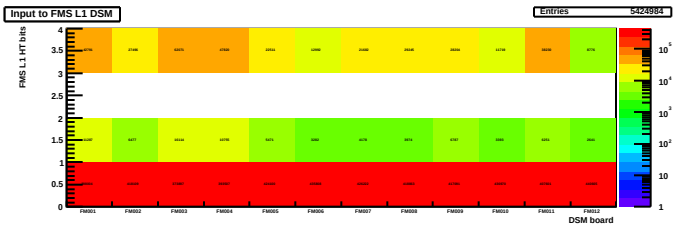

Input to FMS L1 DSM
Entries 29282
sumB - simulated
DSM board

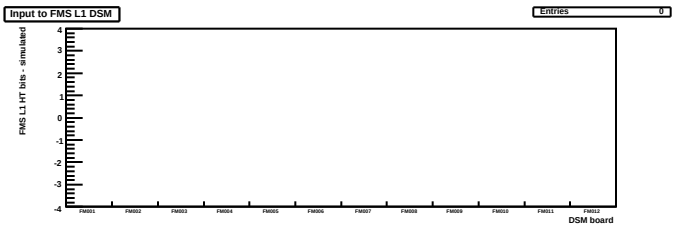

Input to FMS L1 DSM
Entries 5424984
sumAB
DSM board

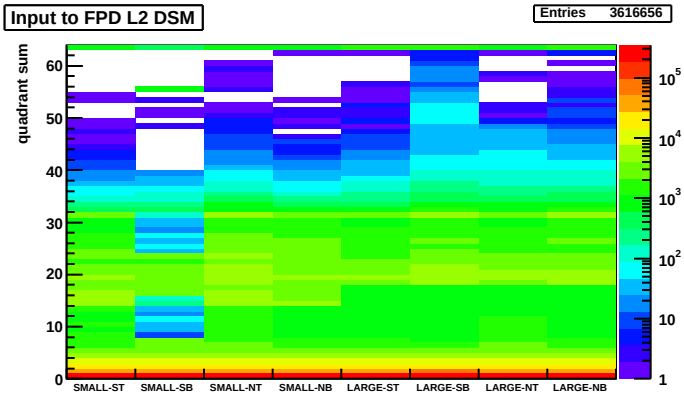

Input to FMS L1 DSM
Entries 22196
sumAB - simulated
DSM board

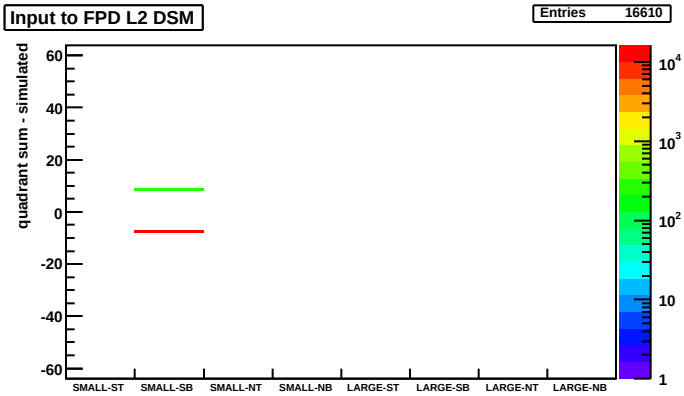

Input to FMS L1 DSM
Entries 5424984
sumA
DSM board

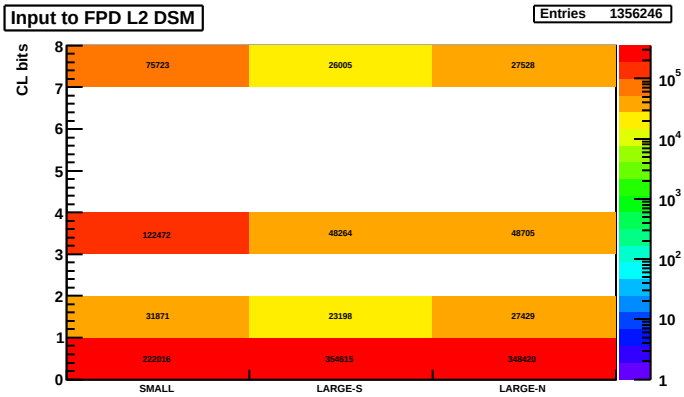

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

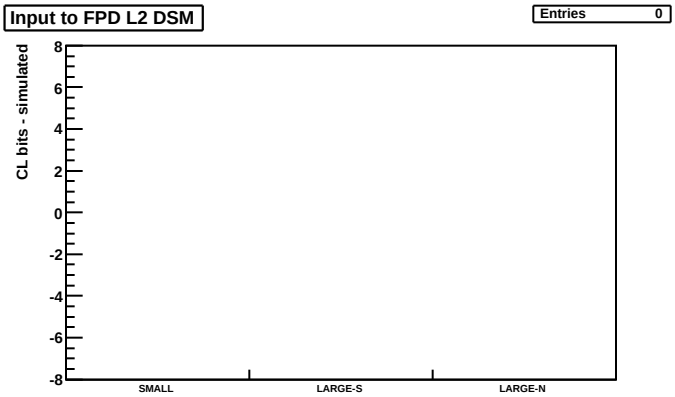

Input to FMS L1 DSM
Entries 5424984
FMS L1 HT bits
DSM board

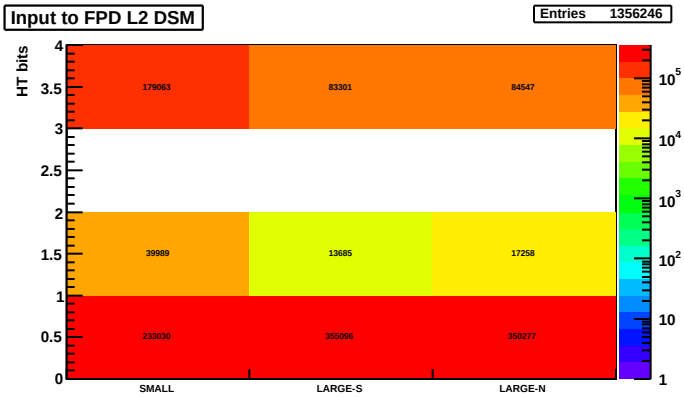

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

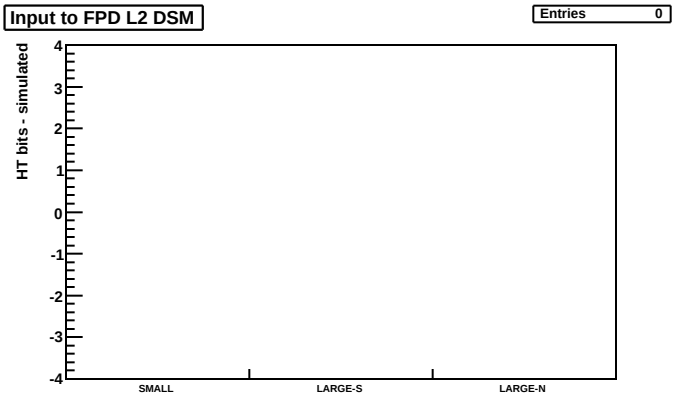

Input to FPD L2 DSM
Entries 3616656
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

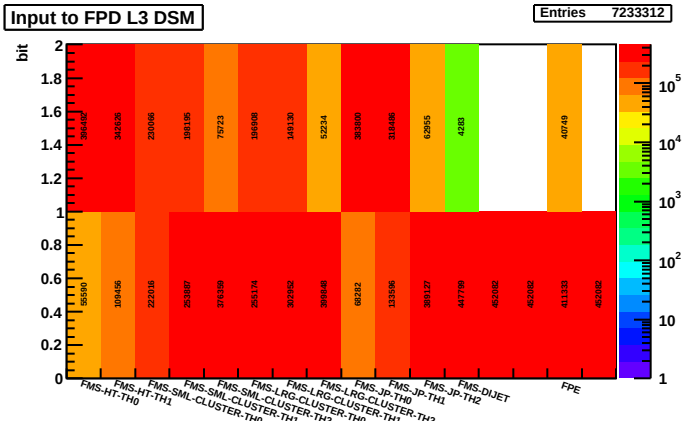

Input to FPD L2 DSM
Entries 16610
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

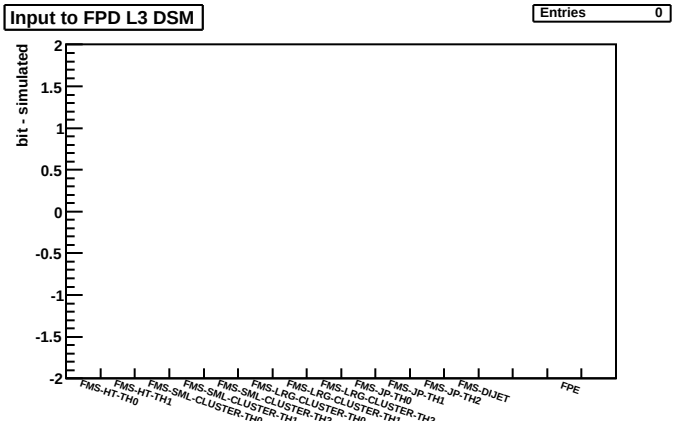

Input to FPD L2 DSM
Entries 1356246
CL bits
75723
26005
27528
122472
48264
48705
31871
23198
27429
222016
354615
348420
SMALL
LARGE-S
LARGE-N

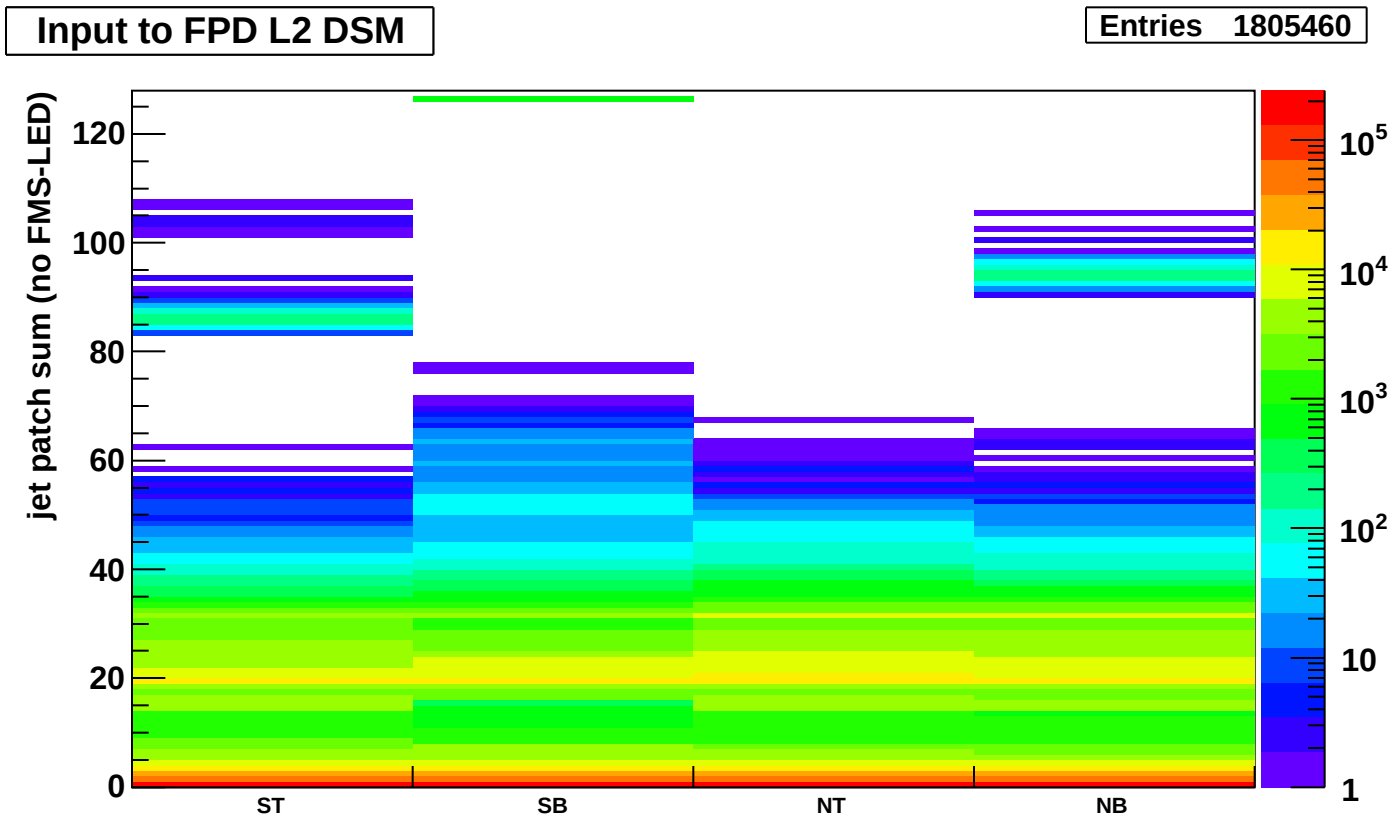

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

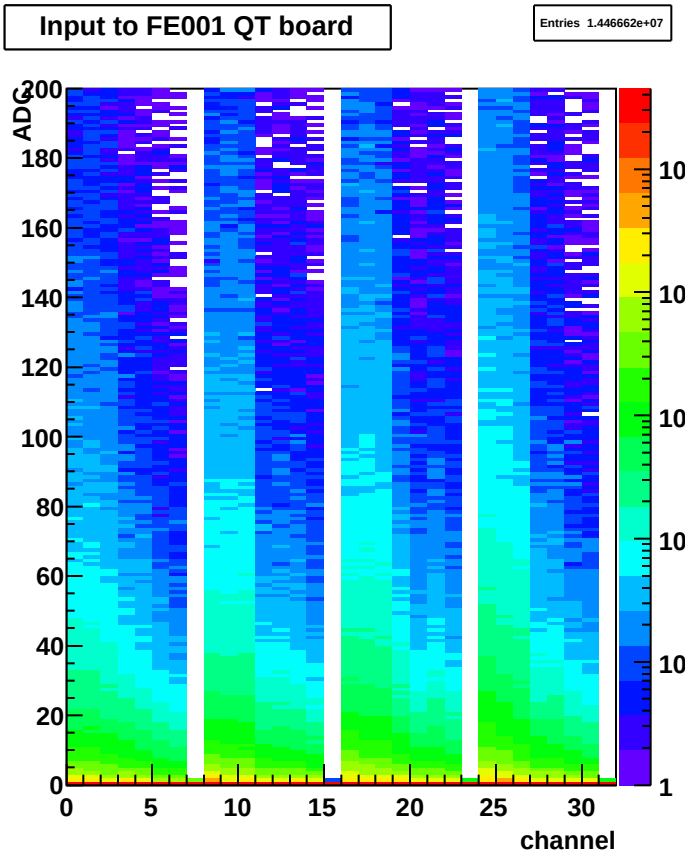

Input to FPD L2 DSM
Entries 1356246
HT bits
179063
83301
84547
39989
13685
17258
233030
355096
350277
SMALL
LARGE-S
LARGE-N

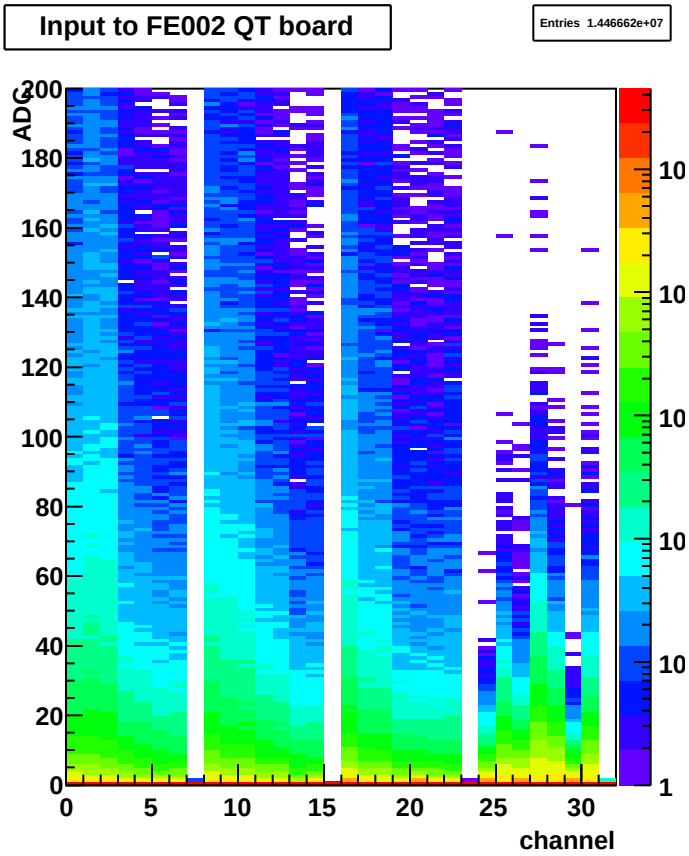

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

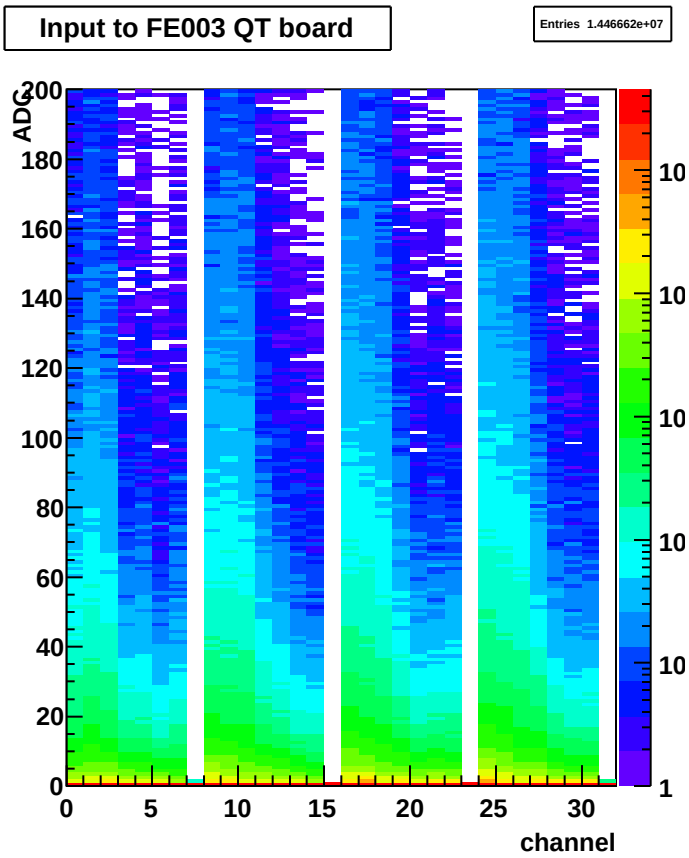

Input to FPD L3 DSM
Entries 7233312
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

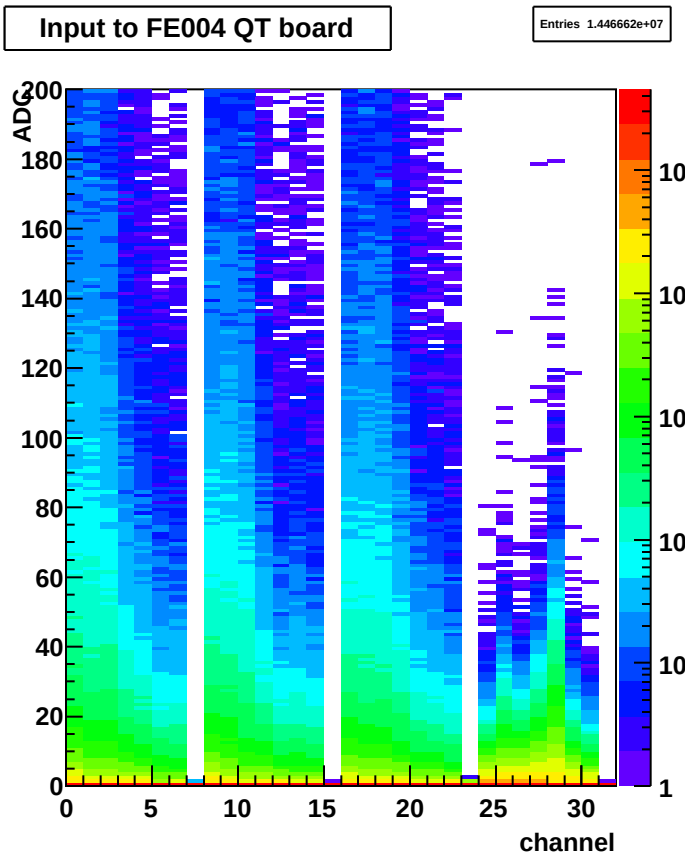

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

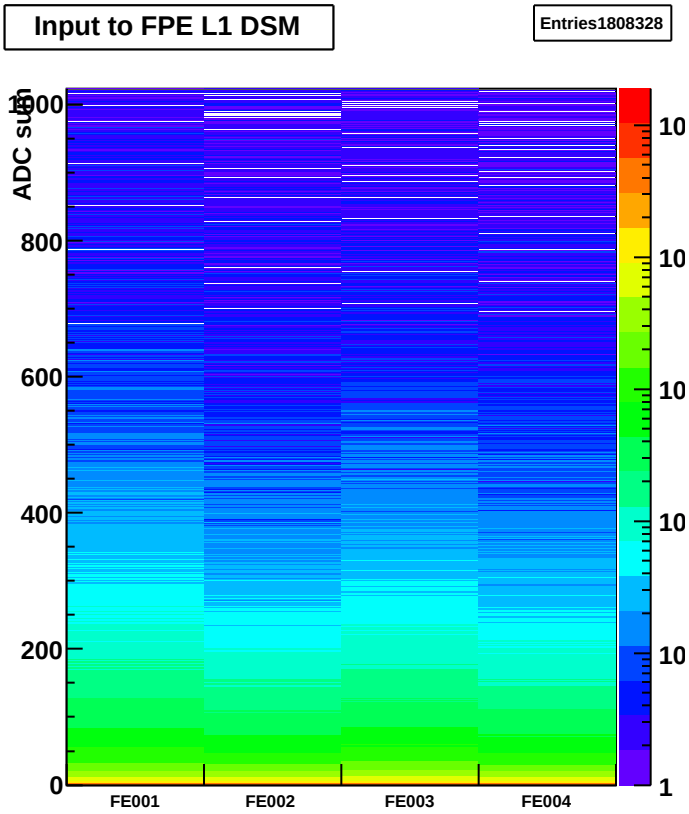

Input to FPD L2 DSM
Entries 1805460
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

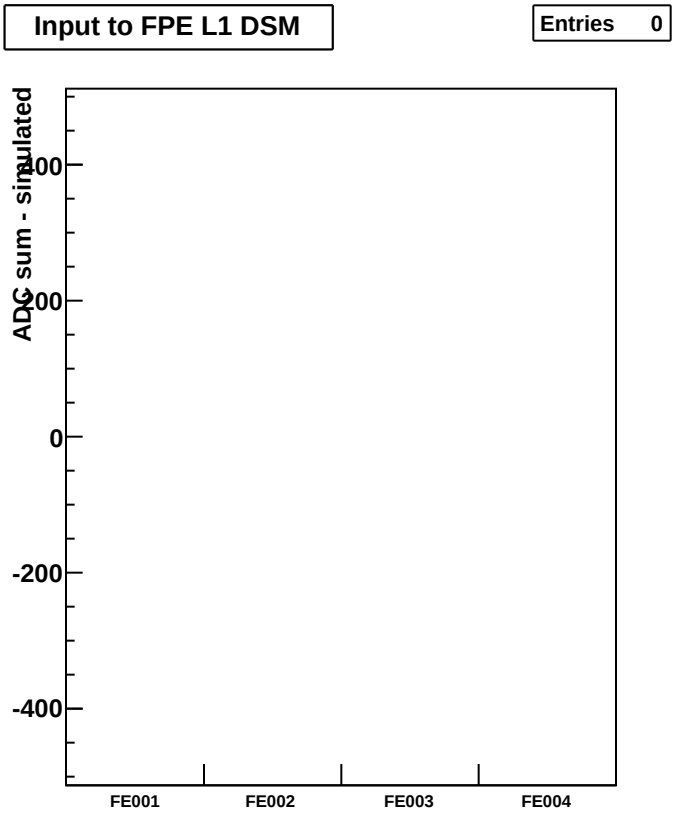

Input to FE001 QT board
Entries 1.446662e+07
ADC
channel

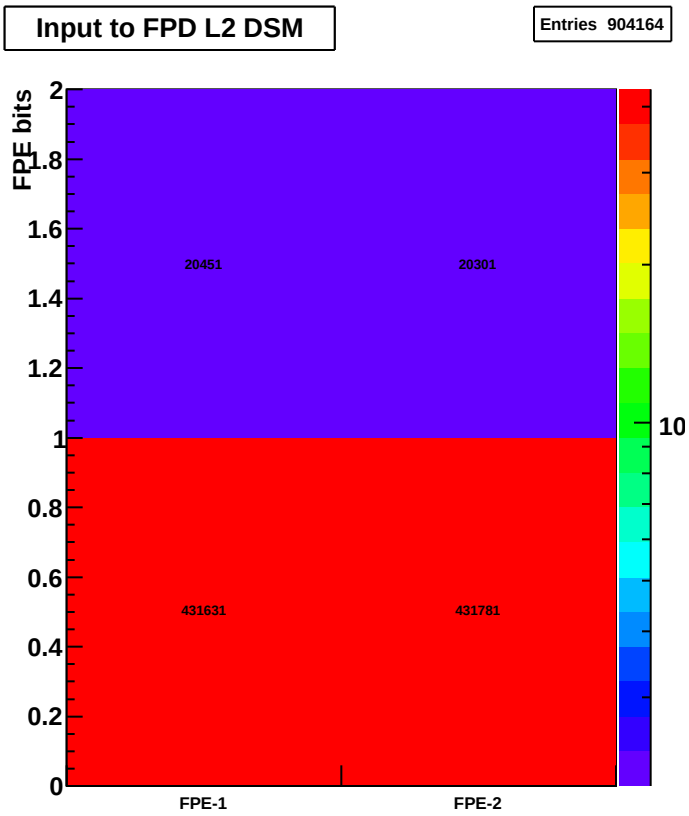

Input to FE002 QT board
Entries 1.446662e+07
ADC
channel

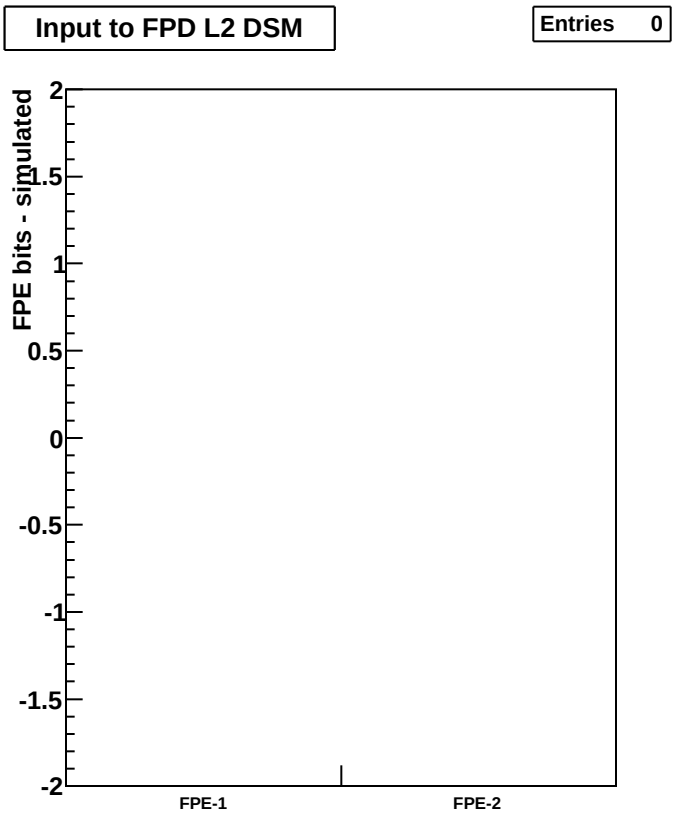

Input to FE003 QT board
Entries 1.446662e+07
ADC
channel


Input to FE004 QT board
Entries 1.446662e+07
ADC
channel


Input to FPE L1 DSM
Entries1808328
ADC sum
1000
800
600
400
200
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1


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


Input to FPD L2 DSM
Entries 904164
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
20451
20301
431631
431781
FPE-1
FPE-2
10


Input to FPD L2 DSM
Entries 0
FPE bits - simulated
2
1.5
1
0.5
0
-0.5
-1
-1.5
-2
FPE-1
FPE-2