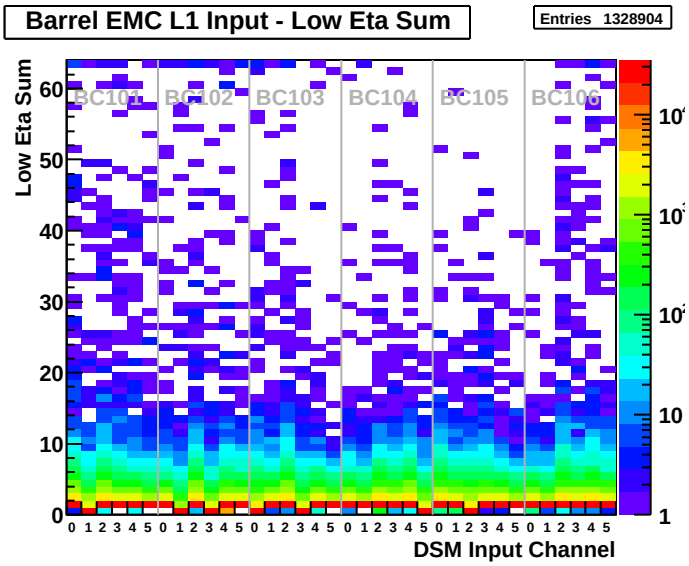
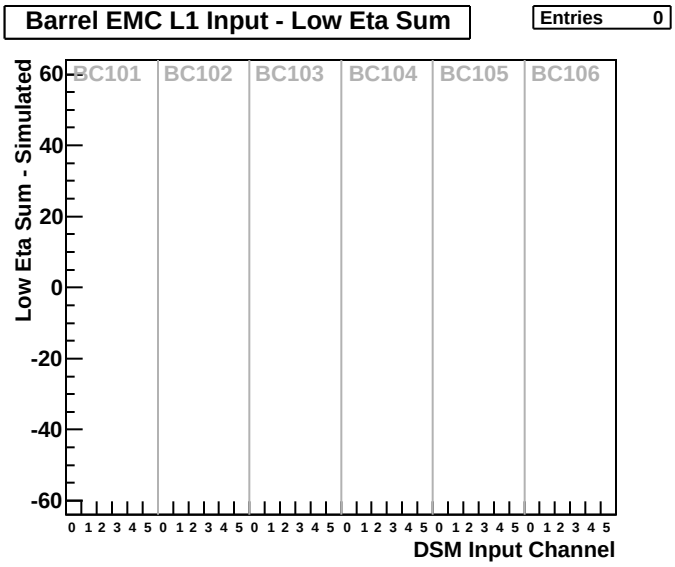
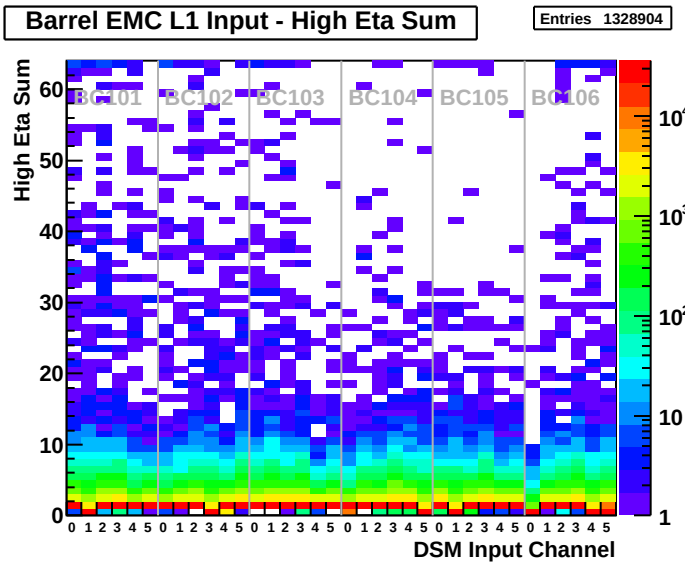
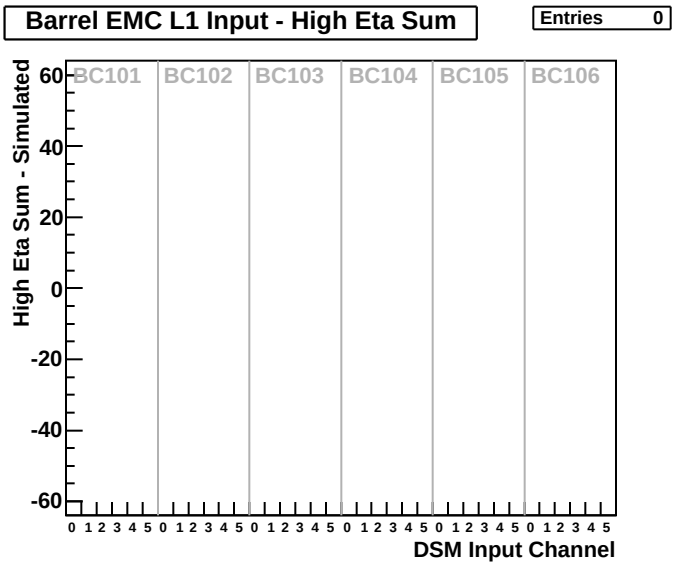
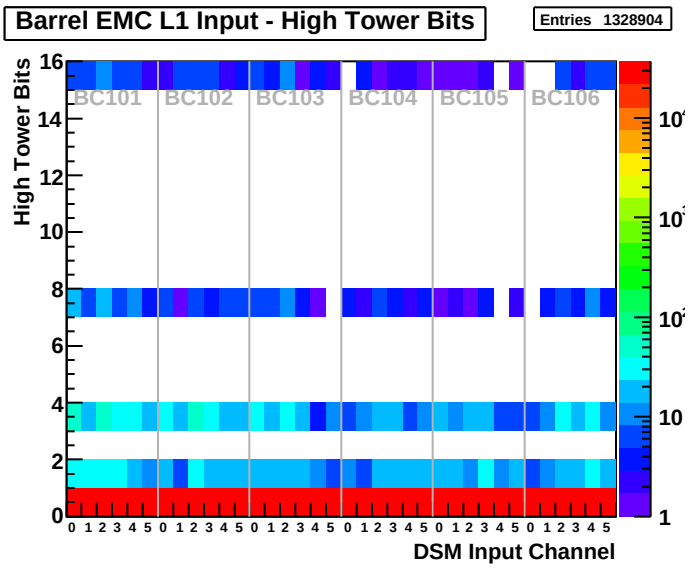
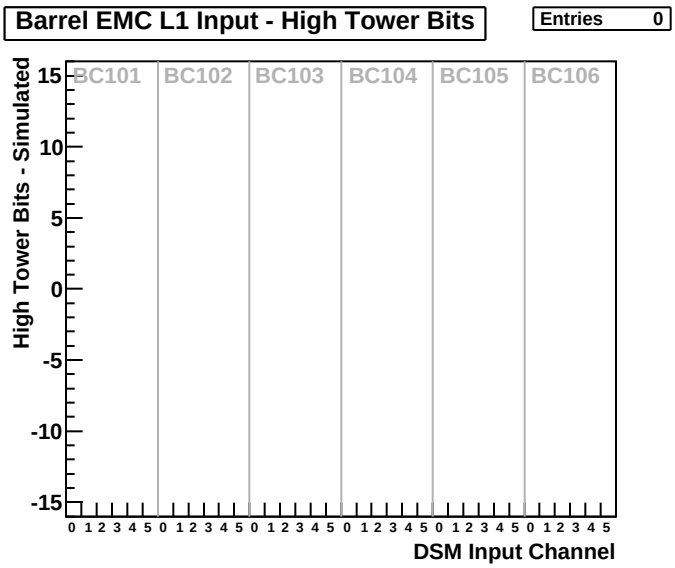

Barrel EMC L1 Input - Low Eta Sum
Entries 1328904
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

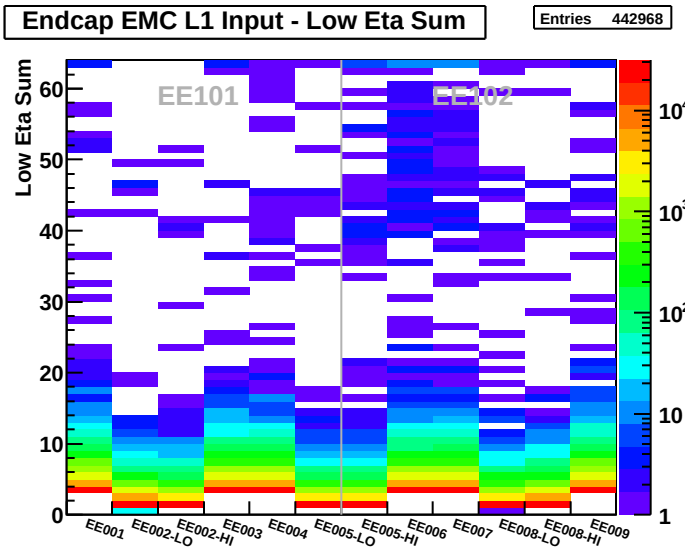

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

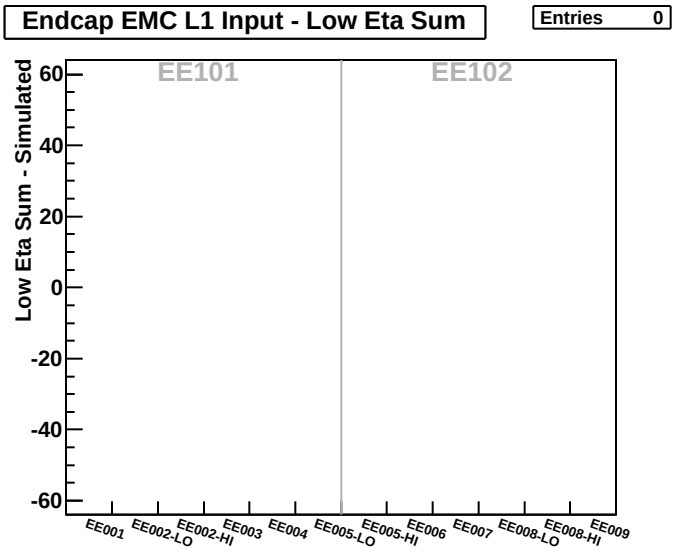

Barrel EMC L1 Input - High Eta Sum
Entries 1328904
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

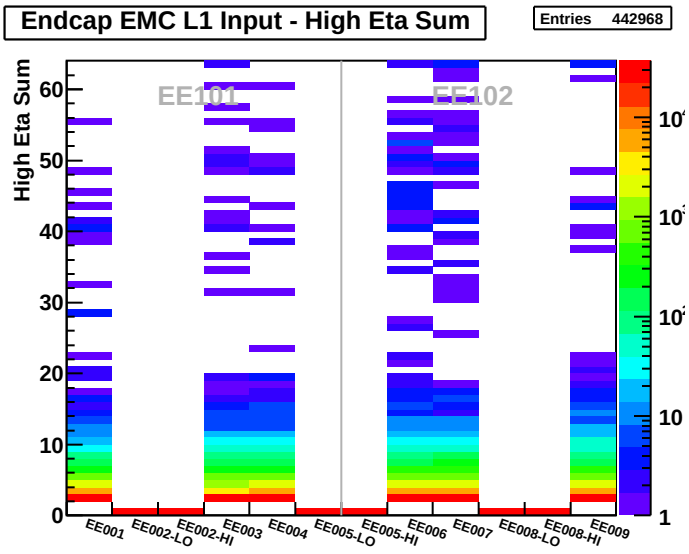

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

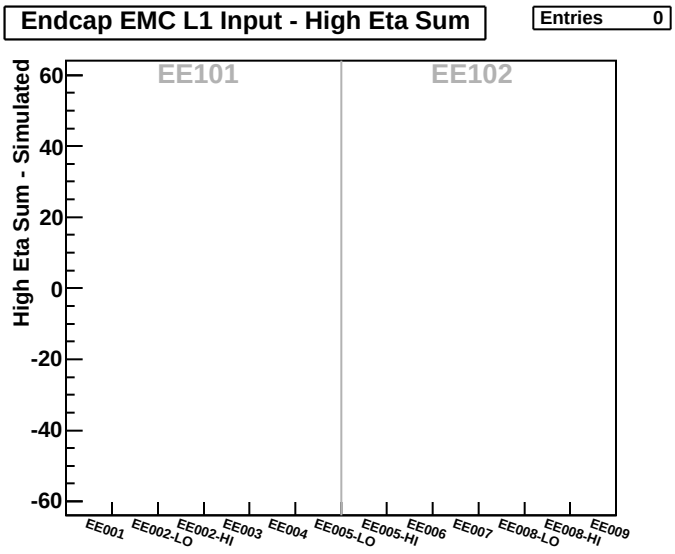

Barrel EMC L1 Input - High Tower Bits
Entries 1328904
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

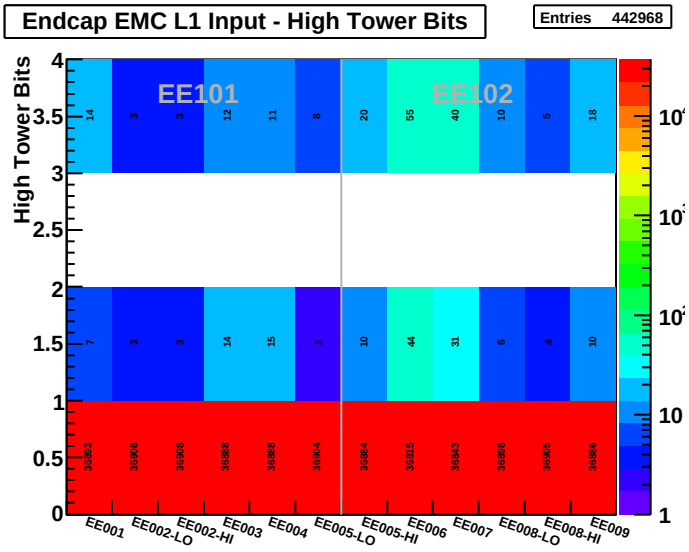

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

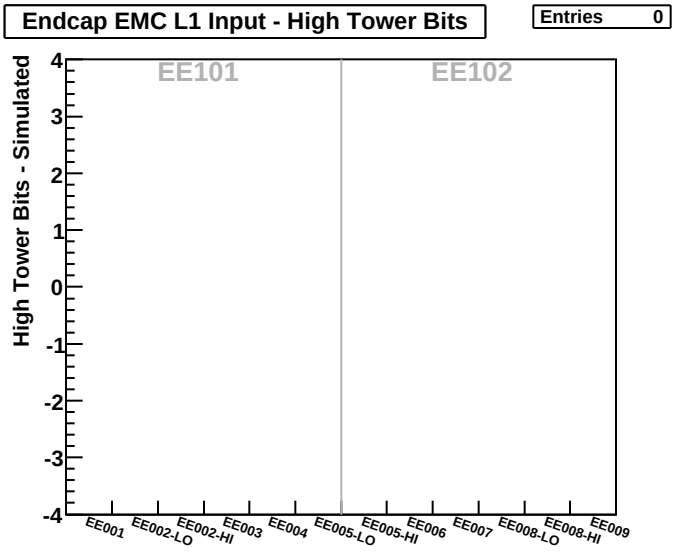

Endcap EMC L1 Input - Low Eta Sum
Entries 442968
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

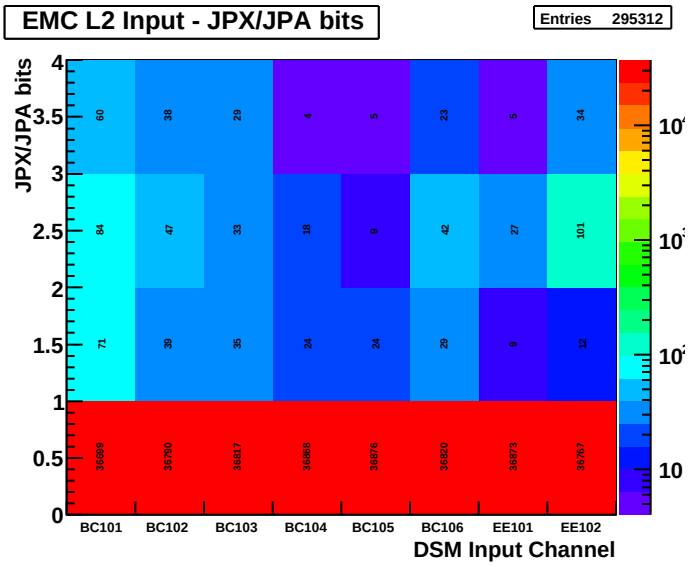

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

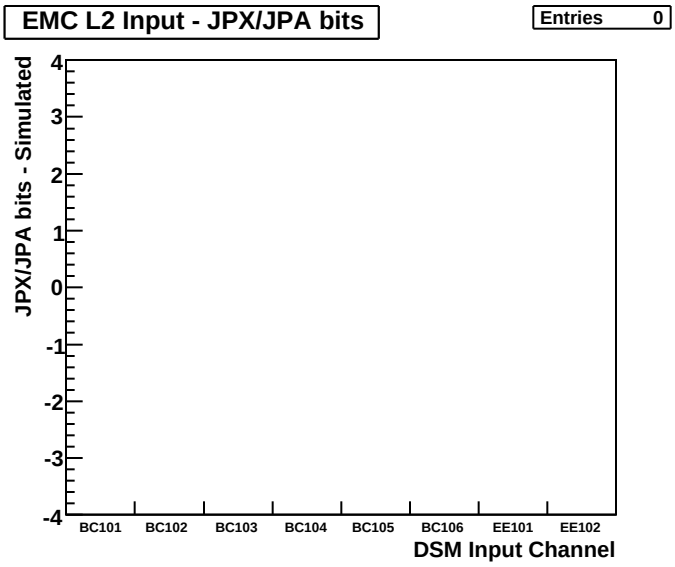

Endcap EMC L1 Input - High Eta Sum
Entries 442968
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

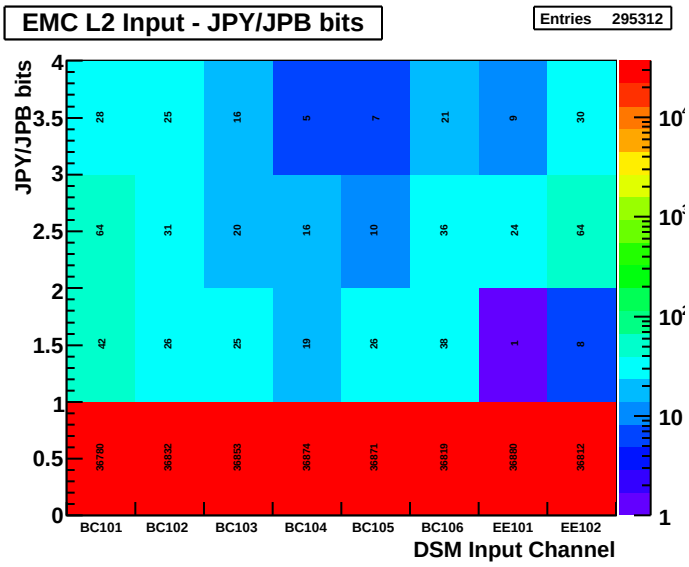

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

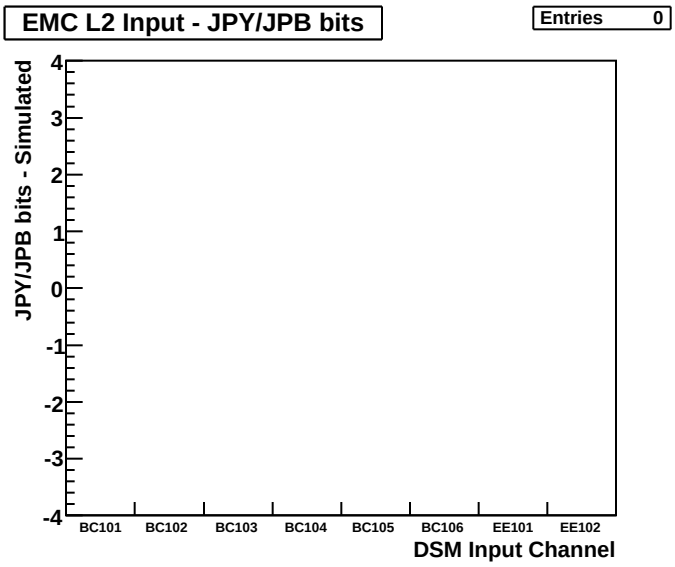

Endcap EMC L1 Input - High Tower Bits
Entries 442968
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

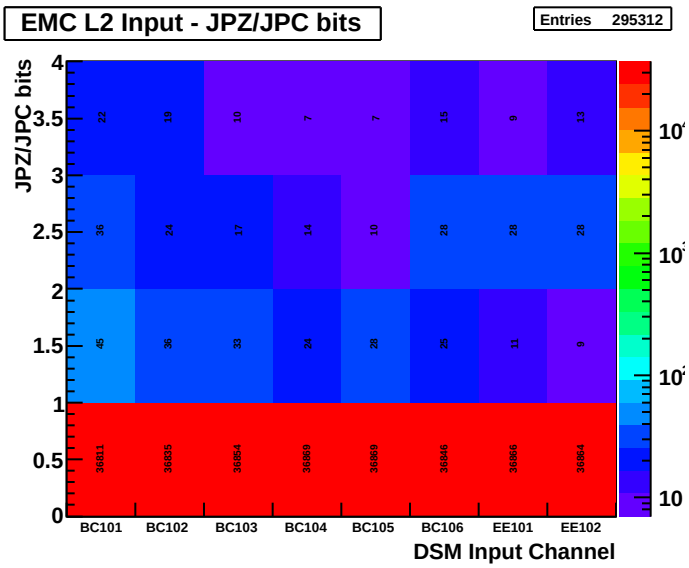

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

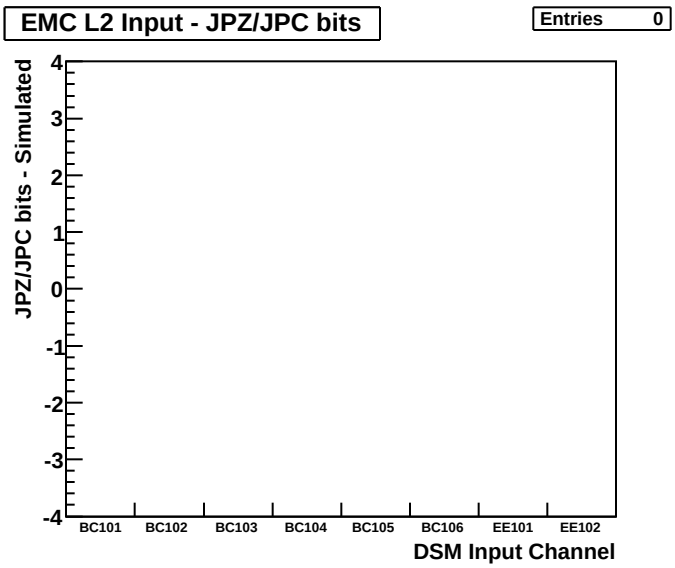

EMC L2 Input - JPX/JPA bits
Entries 295312
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

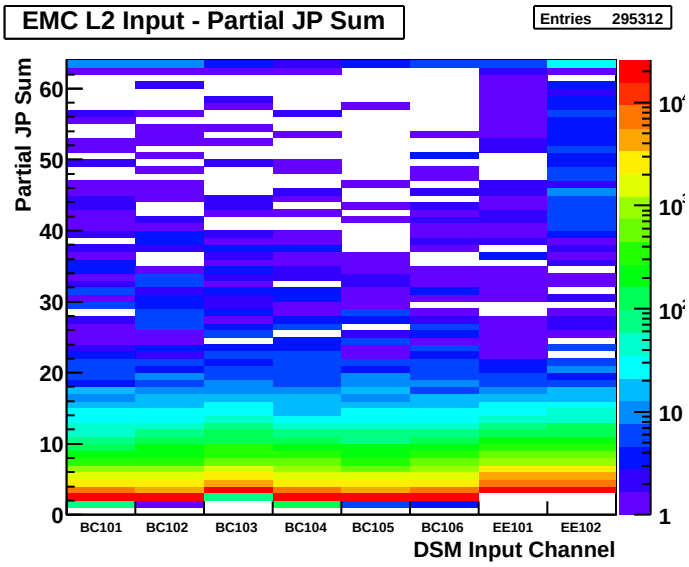

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

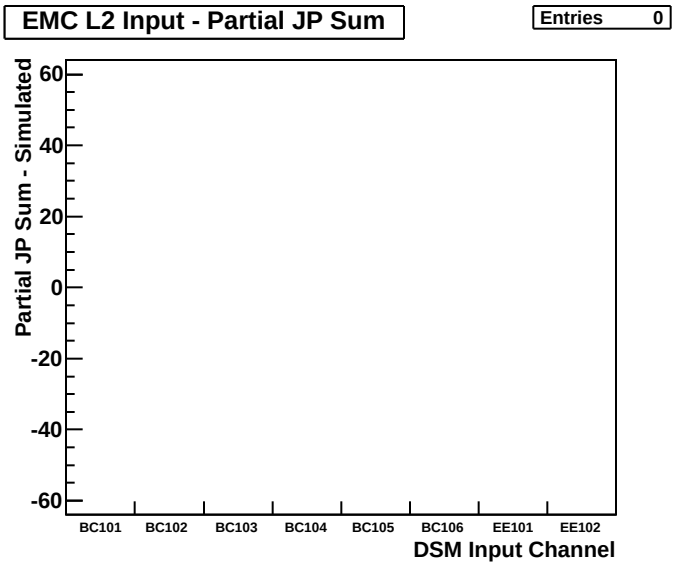

EMC L2 Input - JPY/JPB bits
Entries 295312
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

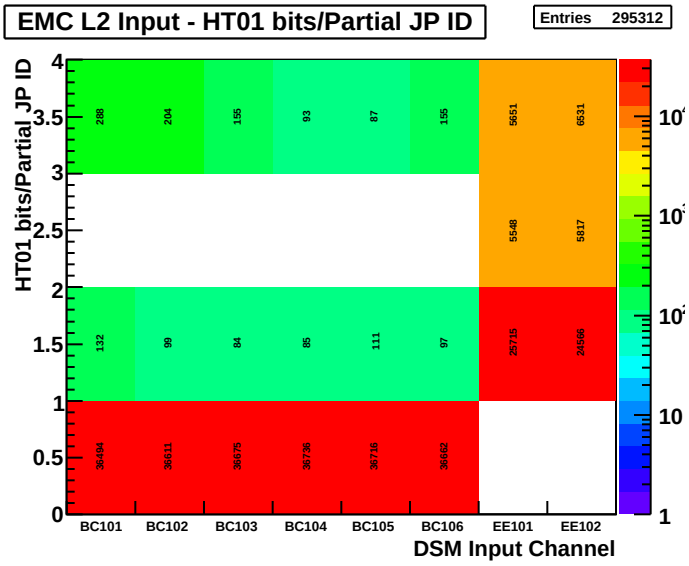

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

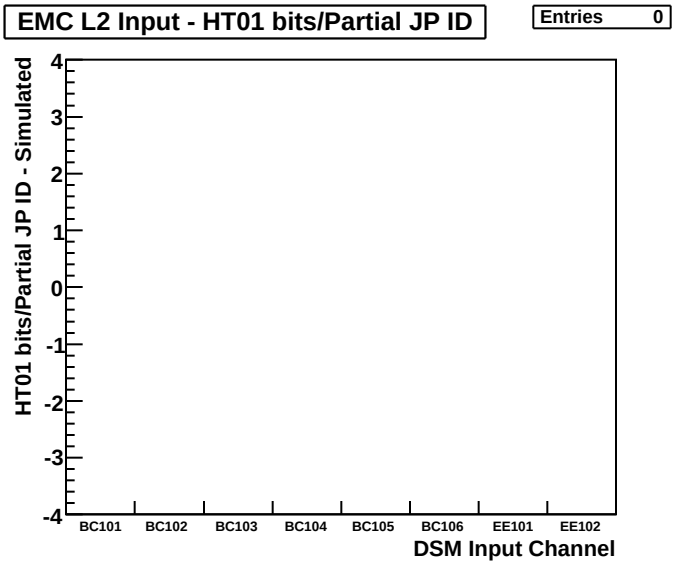

EMC L2 Input - JPZ/JPC bits
Entries 295312
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

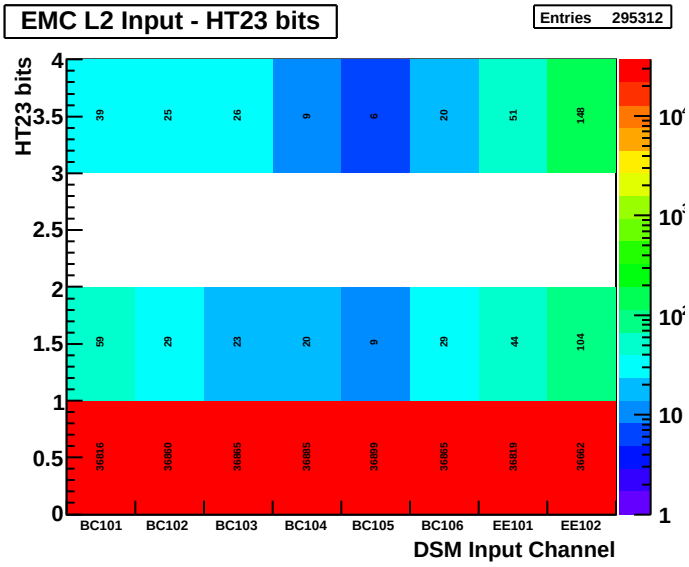

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

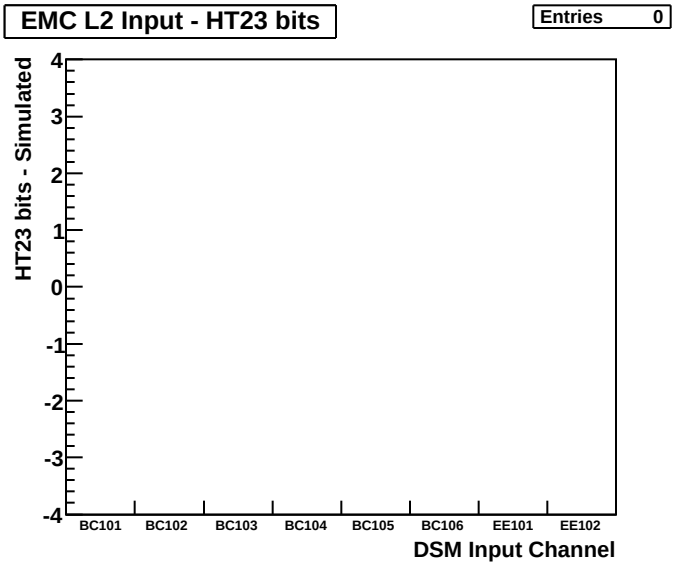

EMC L2 Input - Partial JP Sum
Entries 295312
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

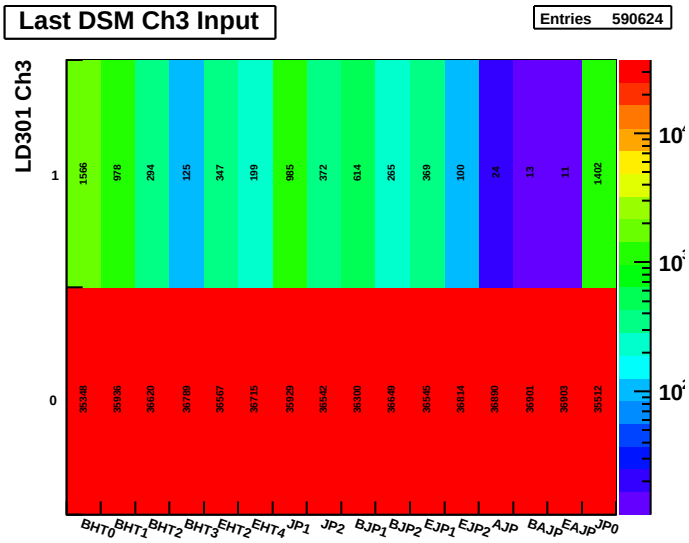

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

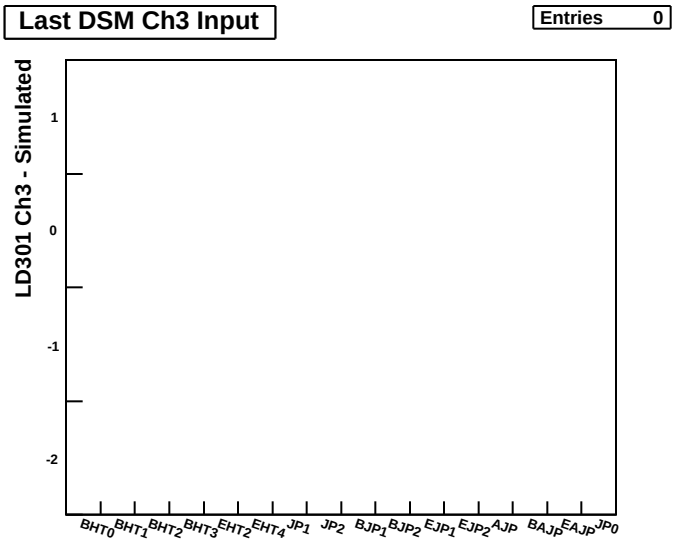

EMC L2 Input - HT01 bits/Partial JP ID
Entries 295312
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

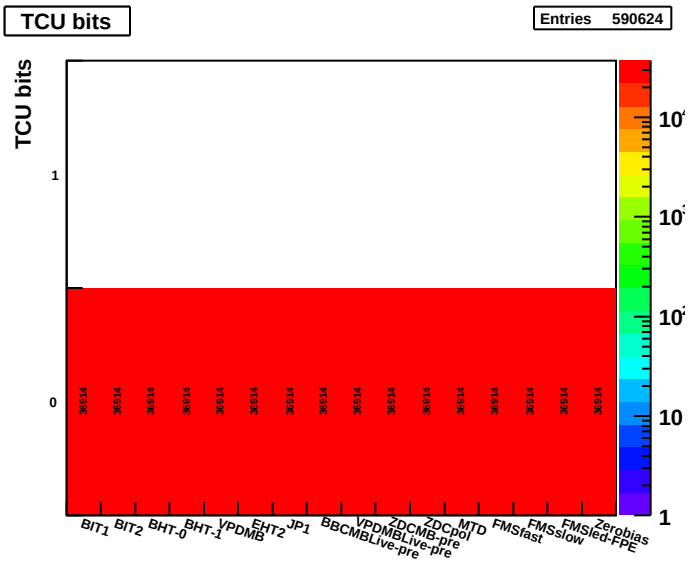

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

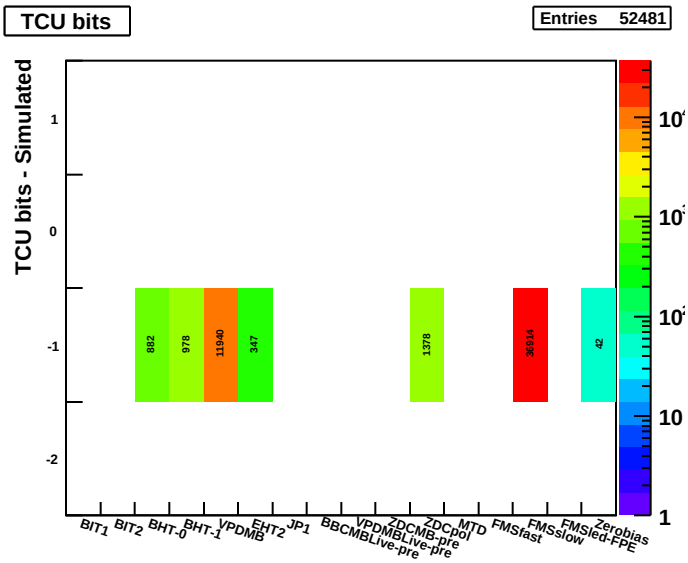

EMC L2 Input - HT23 bits
Entries 295312
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

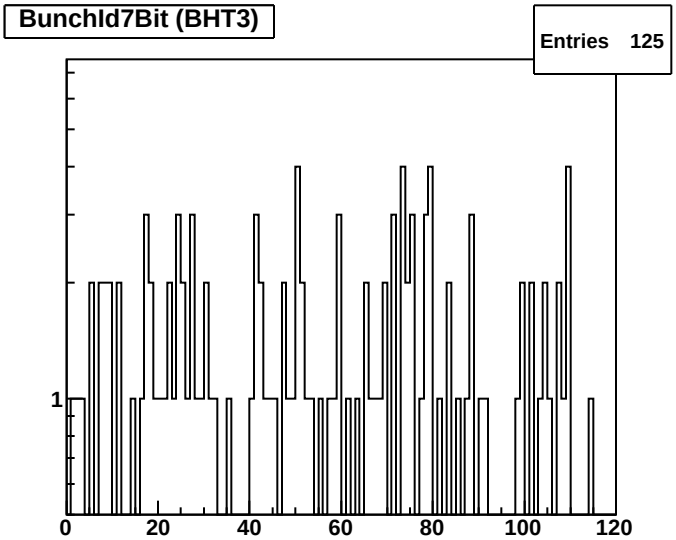

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

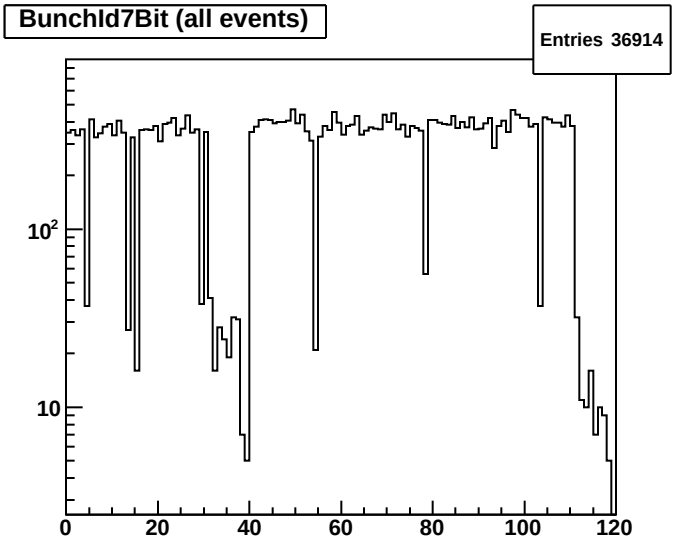

Last DSM Ch3 Input
Entries 590624
LD301 Ch3
1566 978 294 125 347 199 985 372 614 265 369 100 24 13 11 1402
35348 35936 36620 36789 36567 36715 35929 36542 36300 36649 36545 36814 36890 36901 36903 35512
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

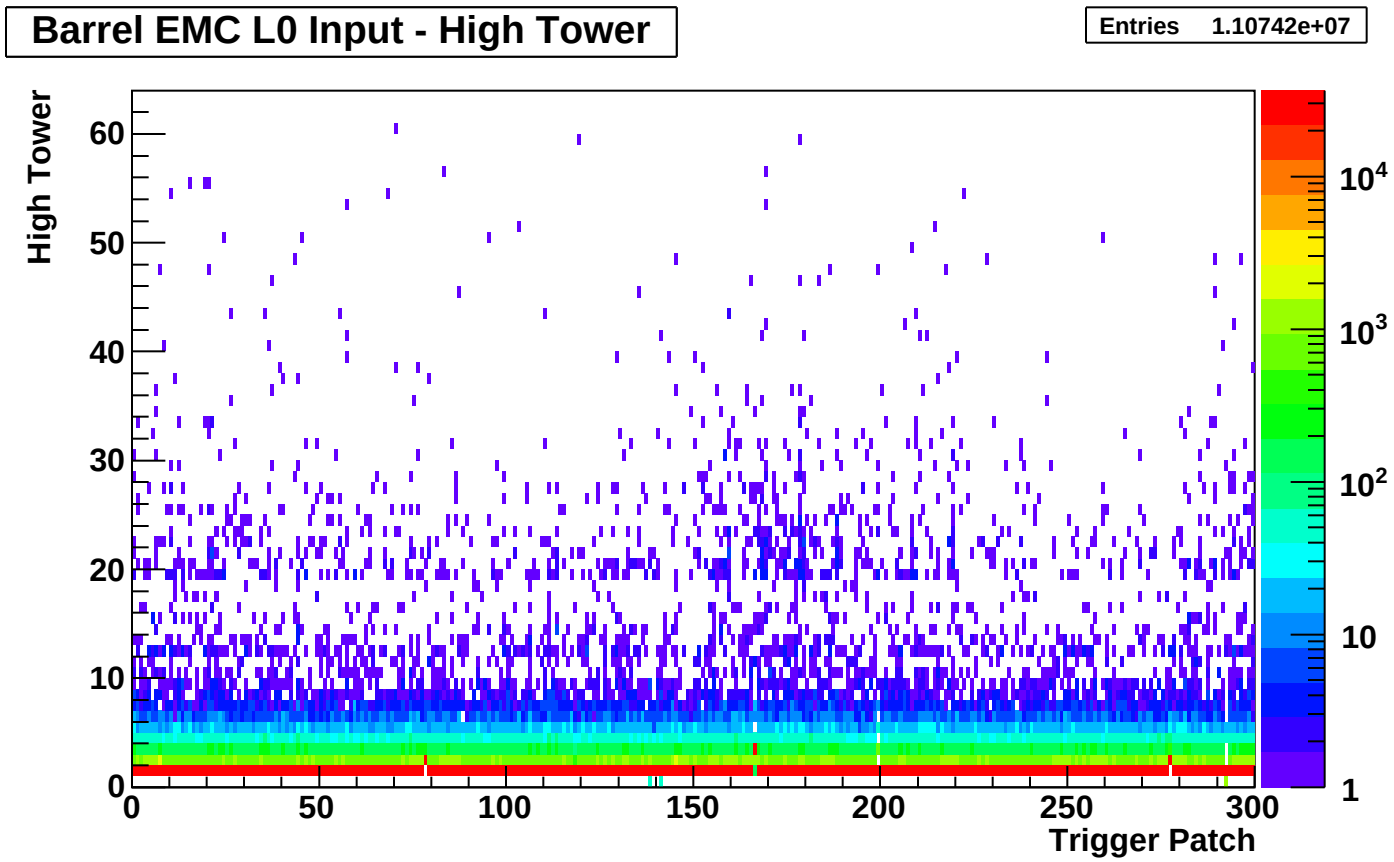

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

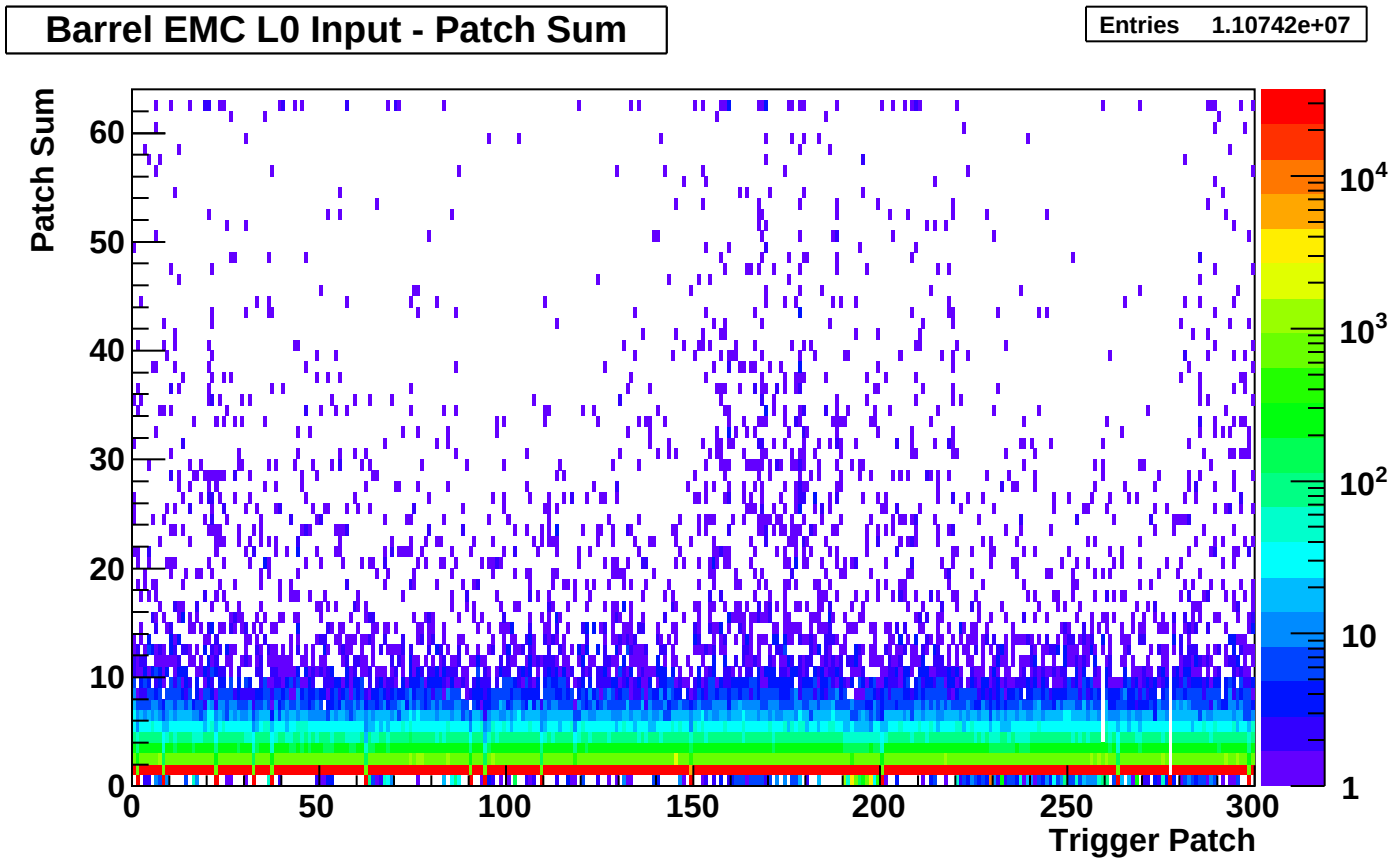

TCU bits
Entries 590624
TCU bits
36914 36914 36914 36914 36914 36914 36914 36914 36914 36914 36914 36914 36914 36914 36914 36914
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

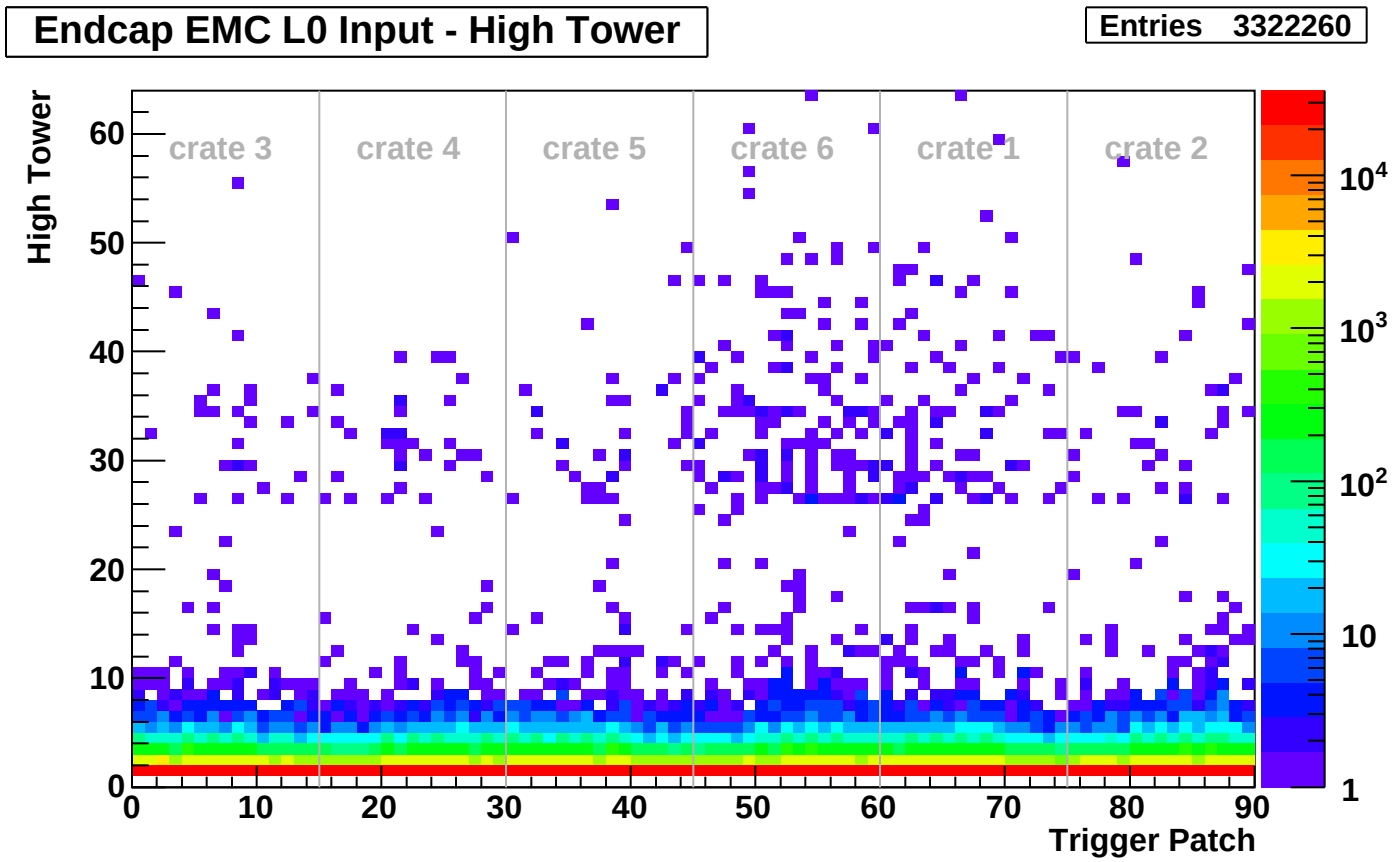

TCU bits
Entries 52481
TCU bits - Simulated
882 978 11940 347 1378 36914 42
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

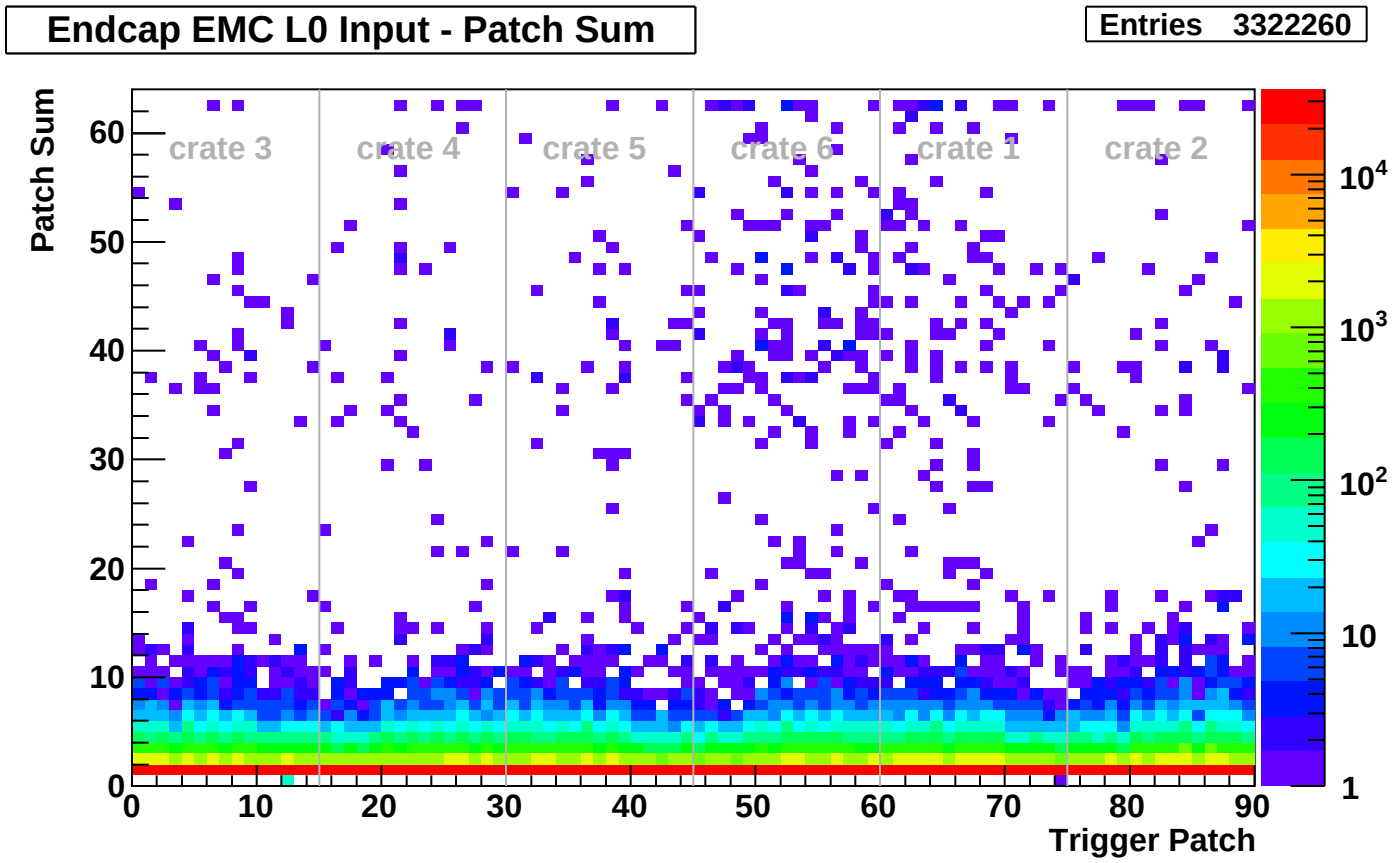

BunchId7Bit (BHT3)
Entries 125

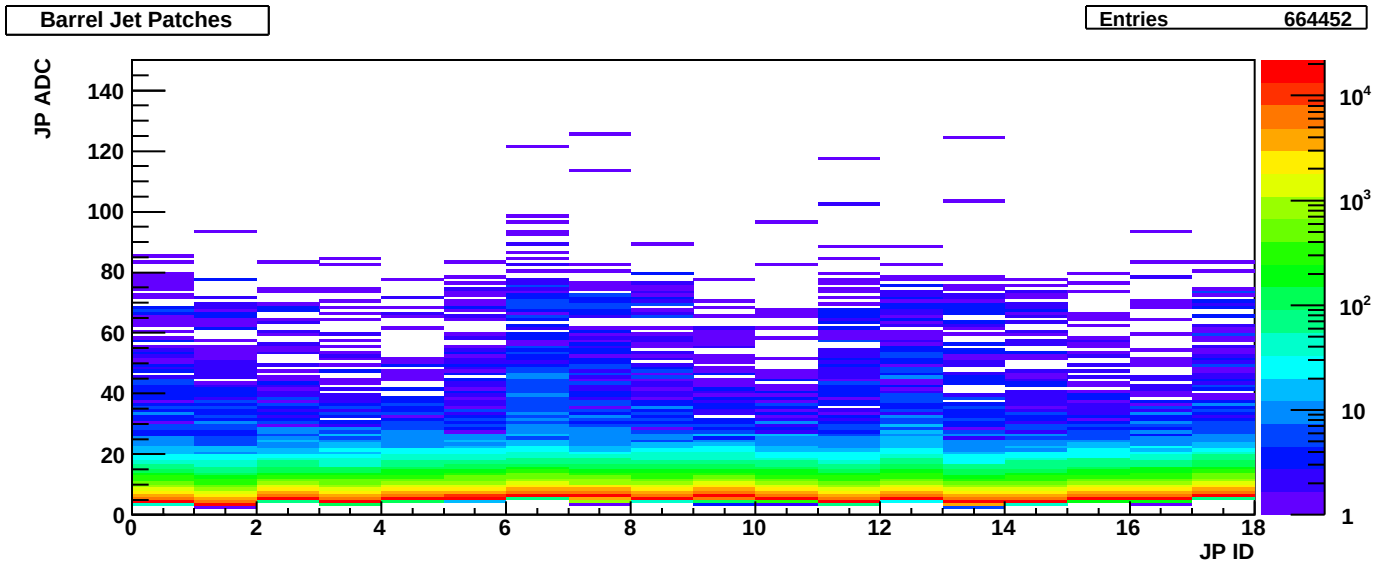

BunchId7Bit (all events)
Entries 36914

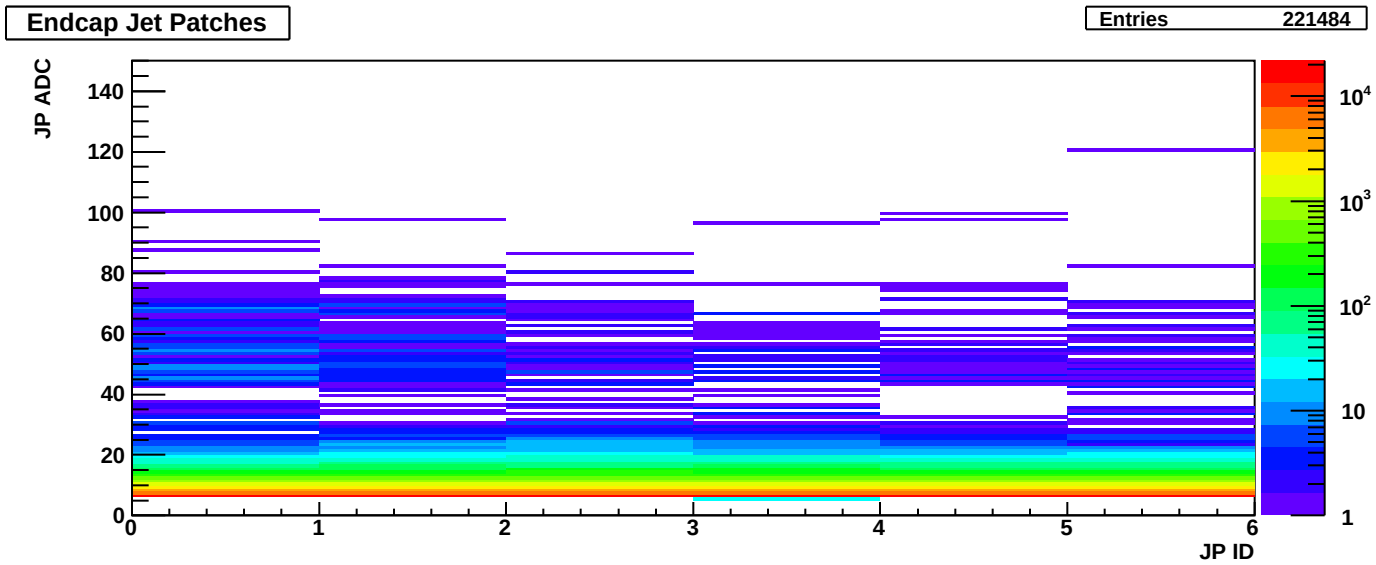

Barrel EMC L0 Input - High Tower
Entries 1.10742e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

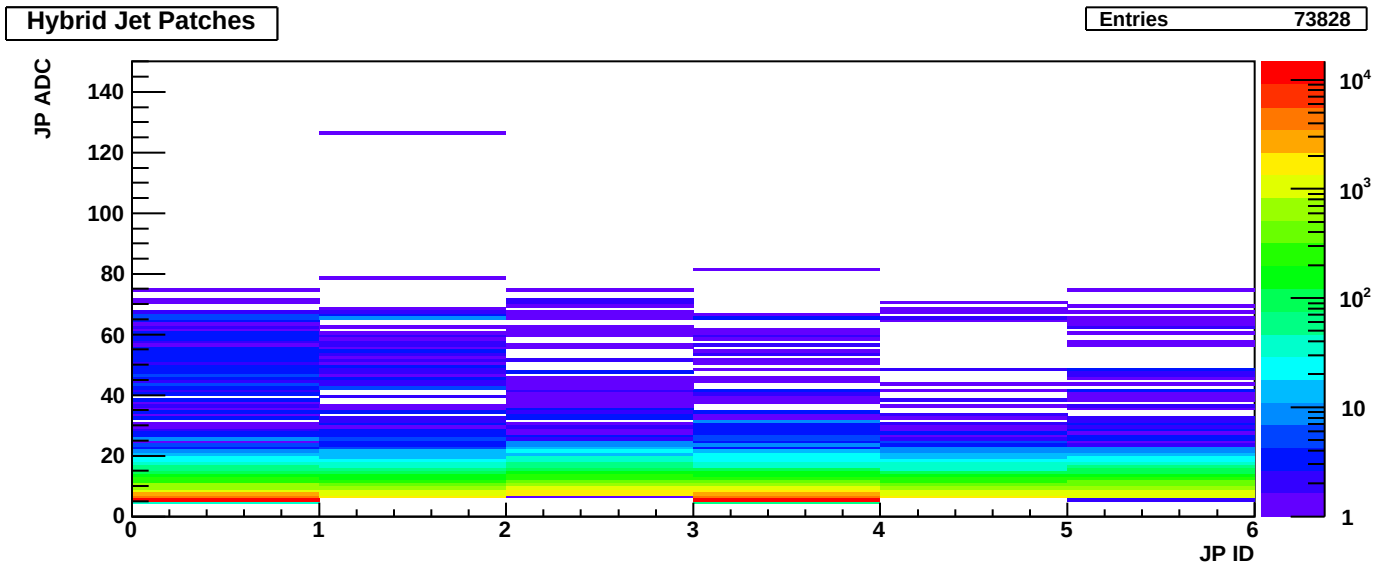

Barrel EMC L0 Input - Patch Sum
Entries 1.10742e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

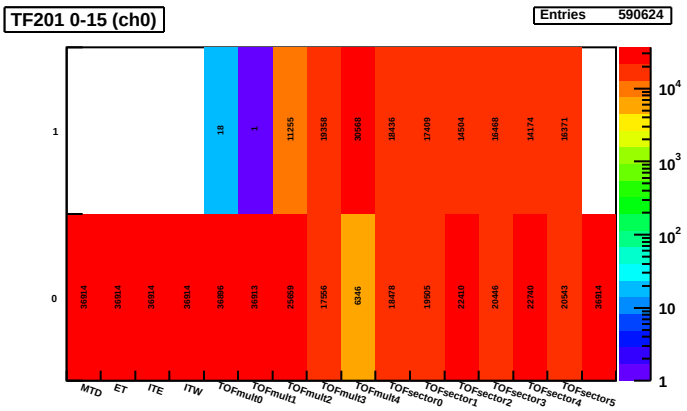

Endcap EMC L0 Input - High Tower
Entries 3322260
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

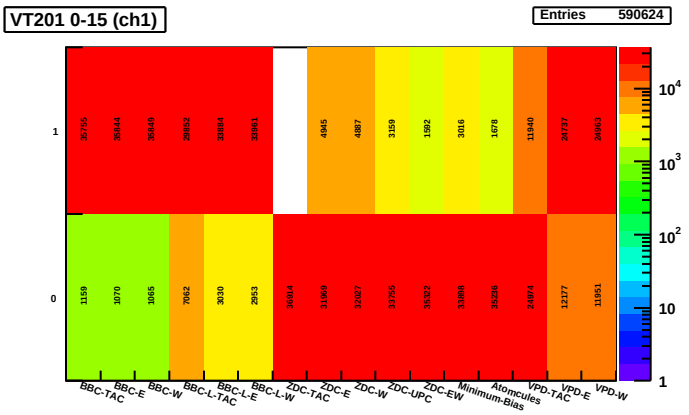

Endcap EMC L0 Input - Patch Sum
Entries 3322260
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

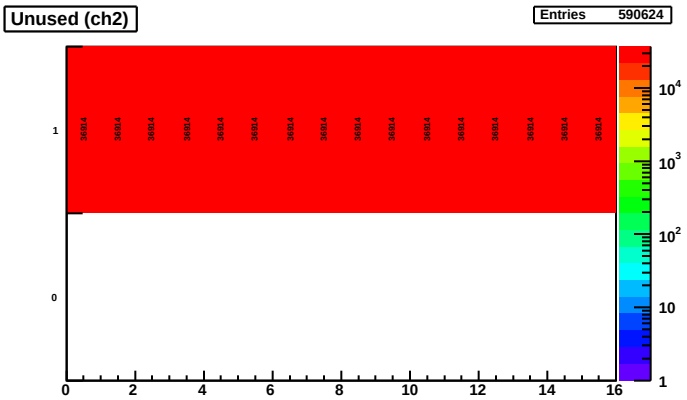

Barrel Jet Patches
Entries 664452
JP ADC
JP ID

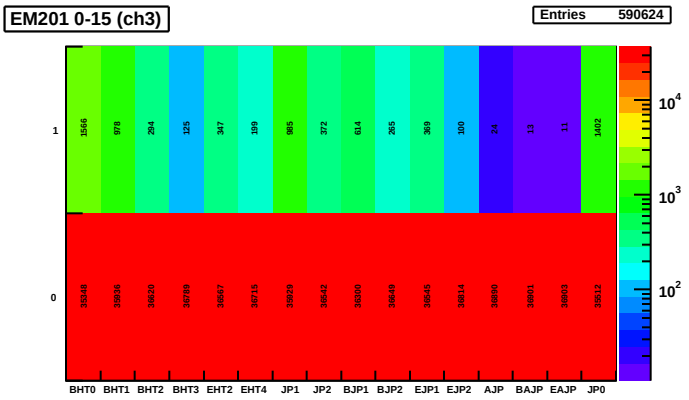

Endcap Jet Patches
Entries 221484
JP ADC
JP ID

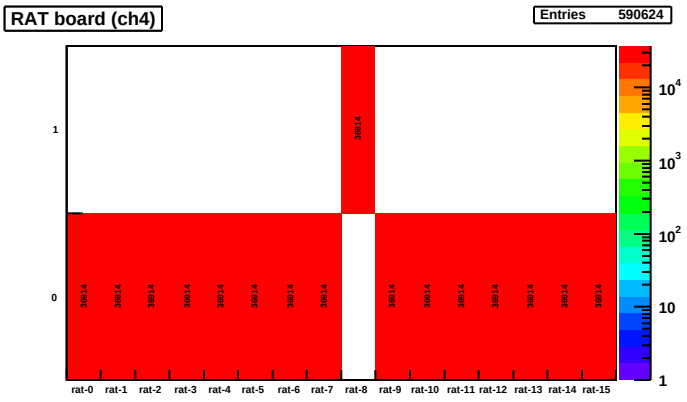

Hybrid Jet Patches
Entries 73828
JP ADC
JP ID

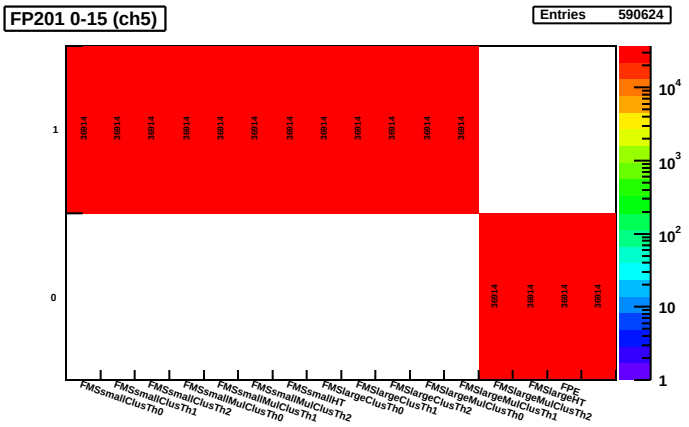

TF201 0-15 (ch0)
Entries 590624
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5

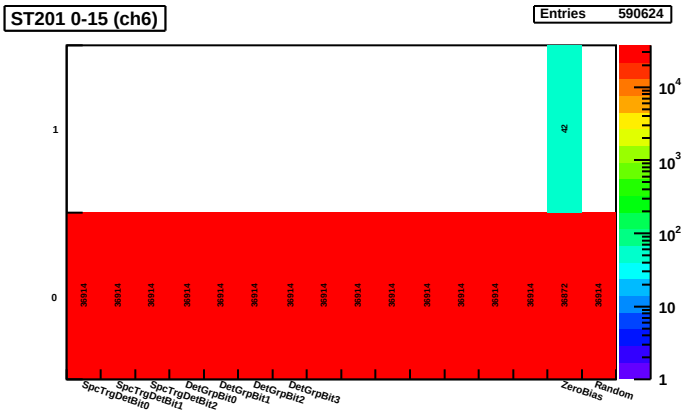

VT201 0-15 (ch1)
Entries 590624
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-UPC ZDC-EW Minimum-Bias Atomcules VPD-TAC VPD-E VPD-W

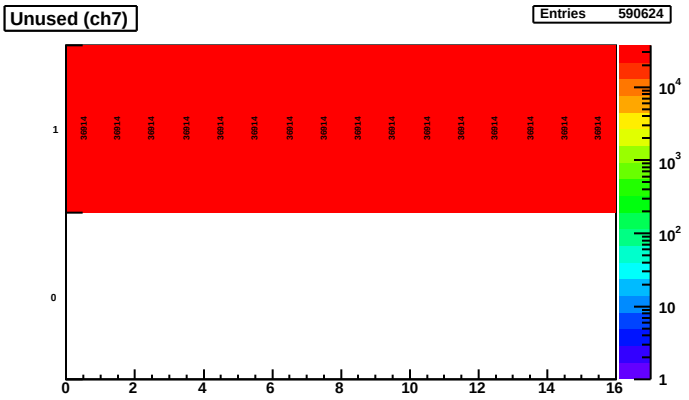

Unused (ch2)
Entries 590624

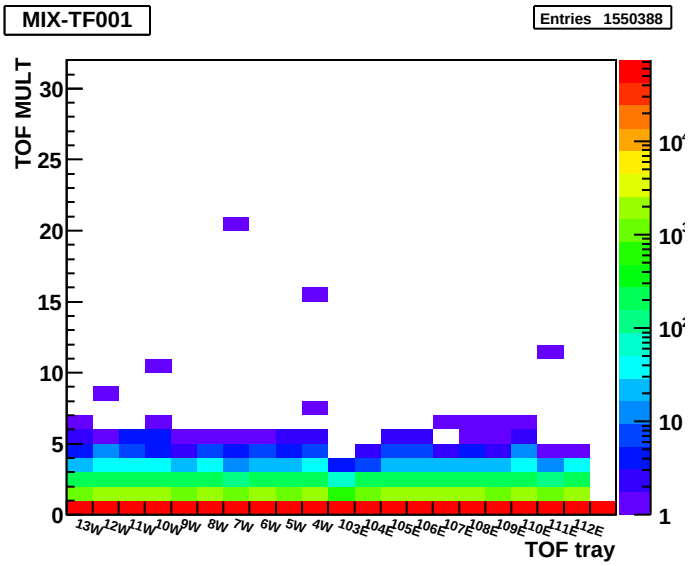

EM201 0-15 (ch3)
Entries 590624
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

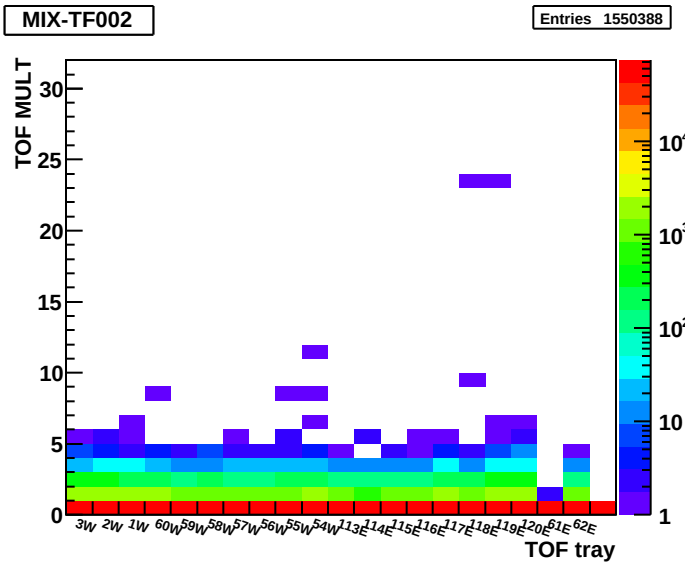

RAT board (ch4)
Entries 590624
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15

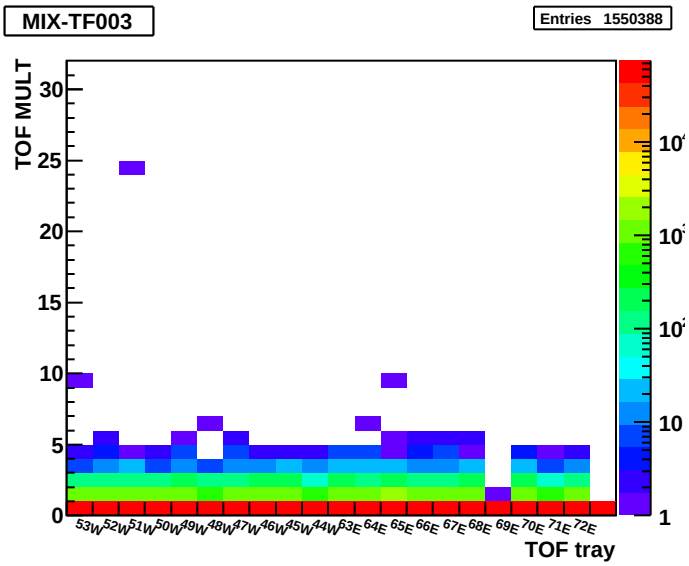

FP201 0-15 (ch5)
Entries 590624
FMSsmallClusTh0 FMSsmallClusTh1 FMSsmallClusTh2 FMSsmallMulClusTh0 FMSsmallMulClusTh1 FMSsmallMulClusTh2 FMSsmallHT FMSlargeClusTh0 FMSlargeClusTh1 FMSlargeClusTh2 FMSlargeMulClusTh0 FMSlargeMulClusTh1 FMSlargeMulClusTh2 FMSlargeHT FPE

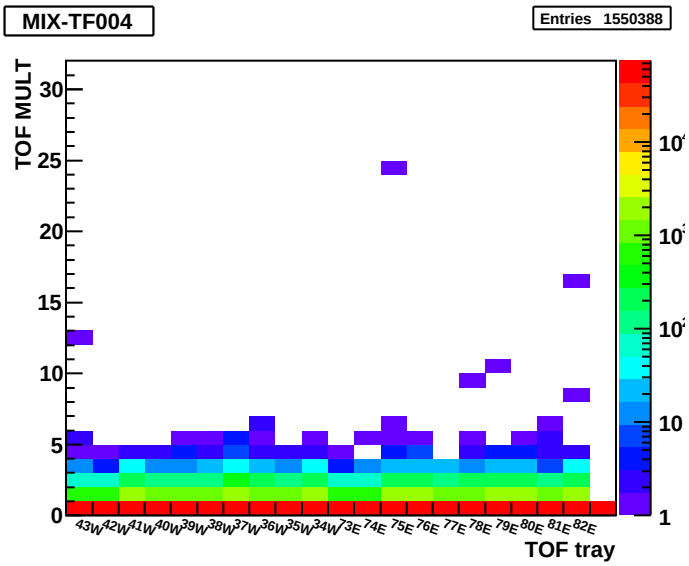

ST201 0-15 (ch6)
Entries 590624
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random

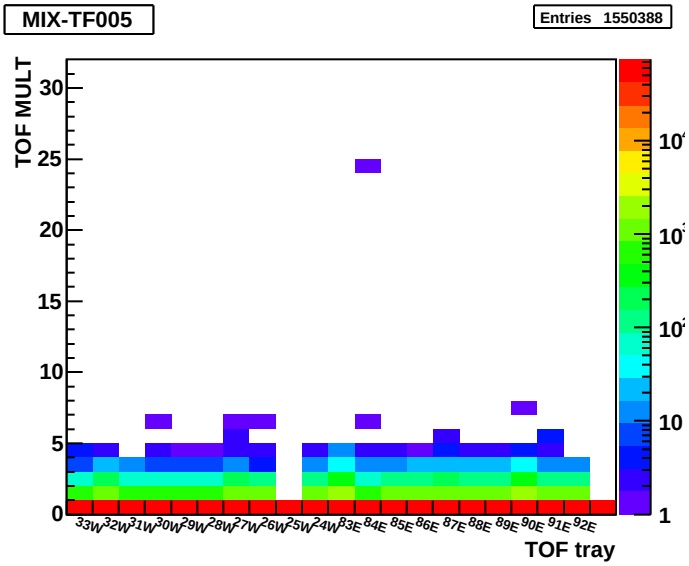

Unused (ch7)
Entries 590624

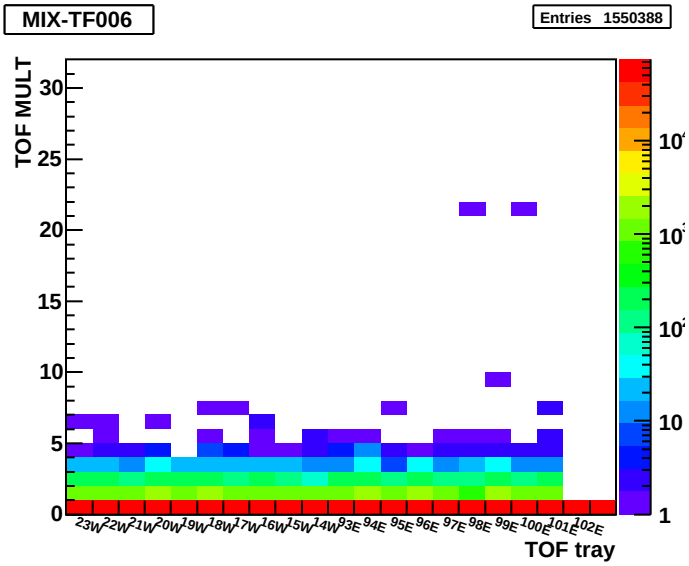

MIX-TF001
Entries 1550388
TOF MULT
TOF tray

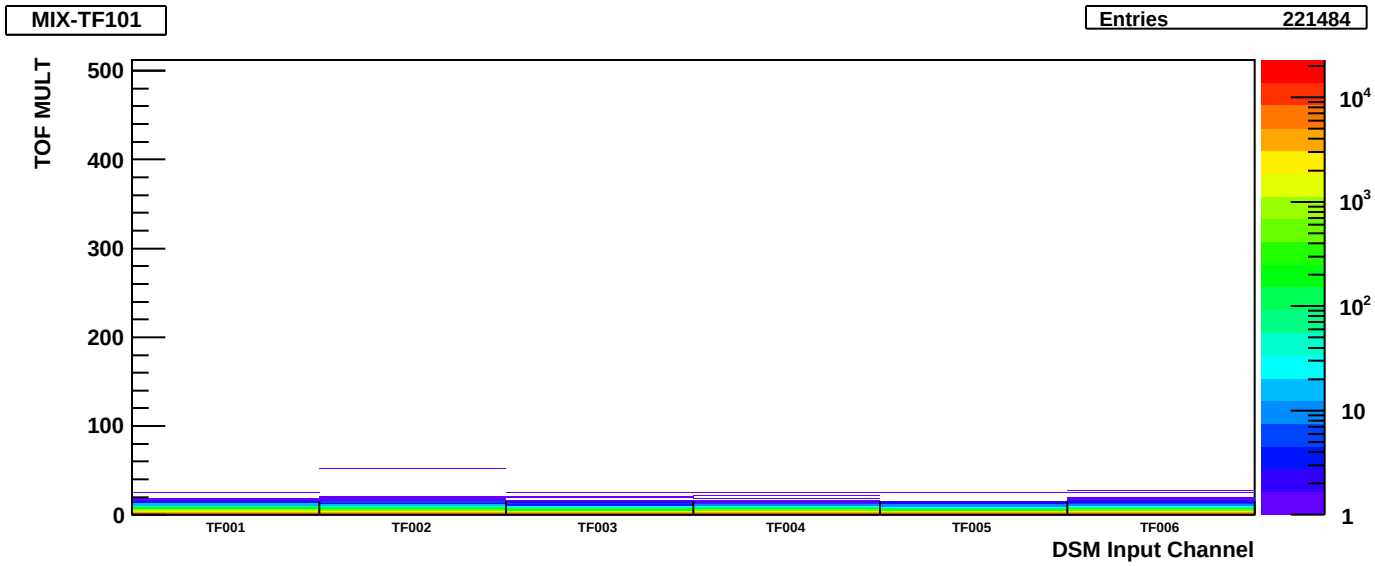

MIX-TF002
Entries 1550388
TOF MULT
TOF tray

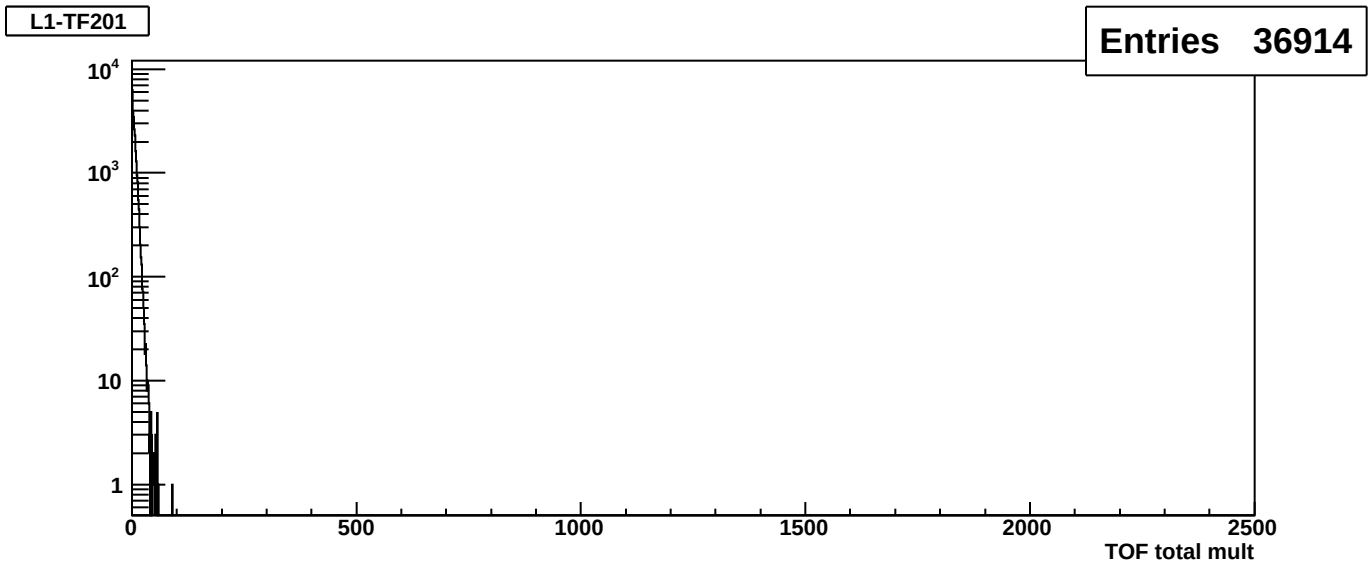

MIX-TF003
Entries 1550388
TOF MULT
TOF tray

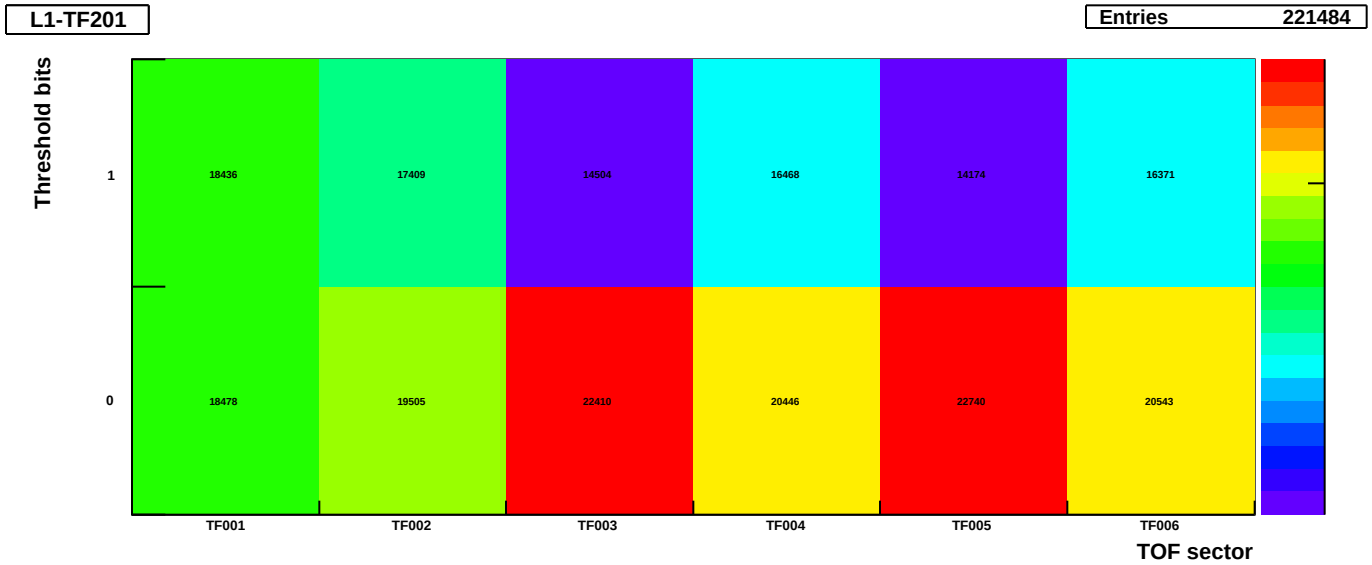

MIX-TF004
Entries 1550388
TOF MULT
TOF tray

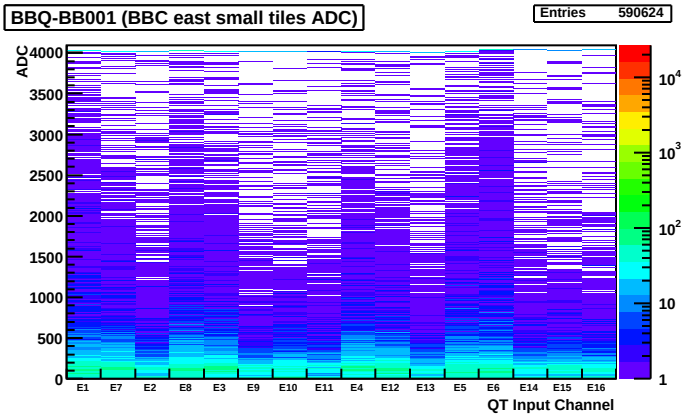

MIX-TF005
Entries 1550388
TOF MULT
TOF tray

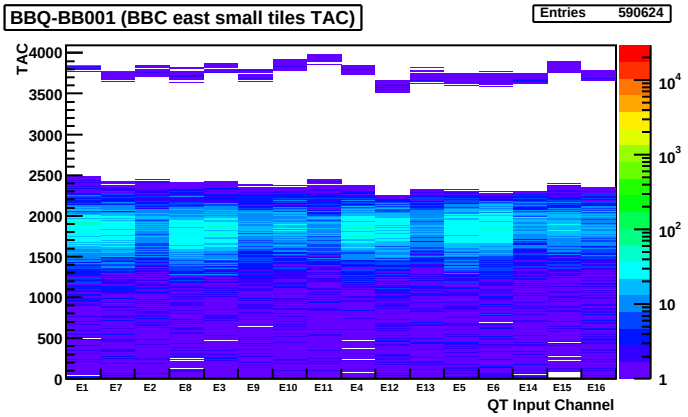

MIX-TF006
Entries 1550388
TOF MULT
TOF tray

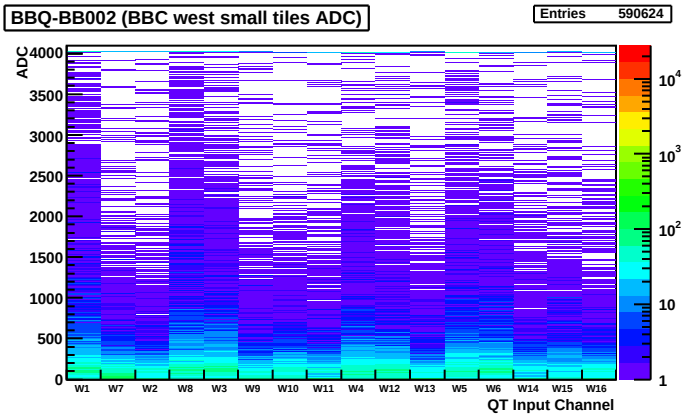

MIX-TF101
Entries 221484
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

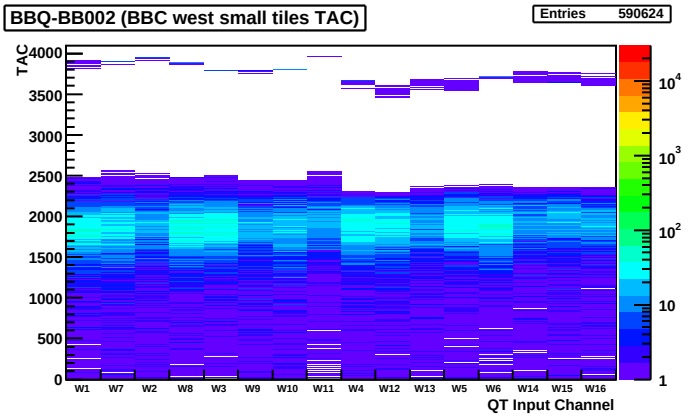

L1-TF201
Entries 36914
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

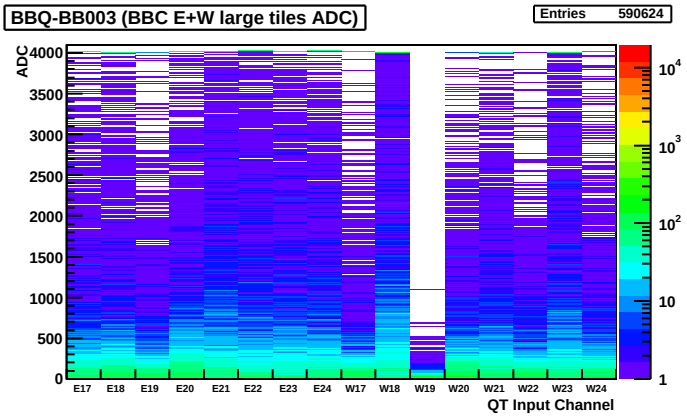

L1-TF201
Entries 221484
Threshold bits
1
0
18436
17409
14504
16468
14174
16371
18478
19505
22410
20446
22740
20543
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

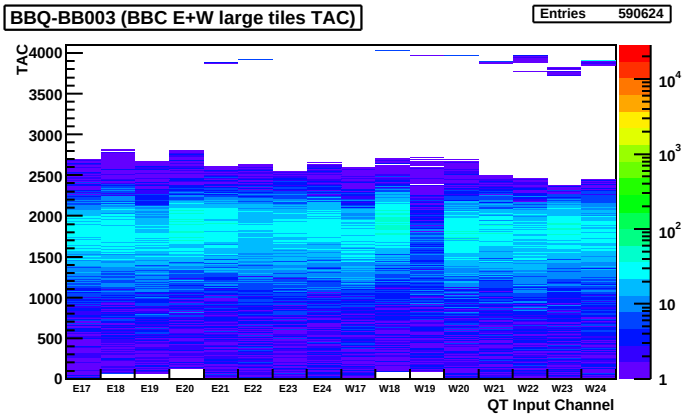

BBQ-BB001 (BBC east small tiles ADC)
Entries 590624
ADC
QT Input Channel

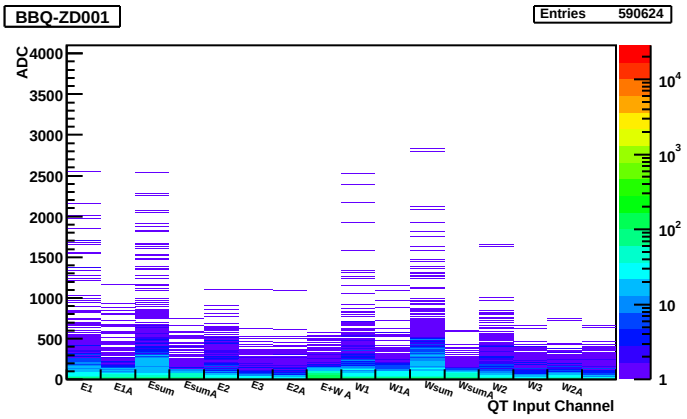

BBQ-BB001 (BBC east small tiles TAC)
Entries 590624
TAC
QT Input Channel

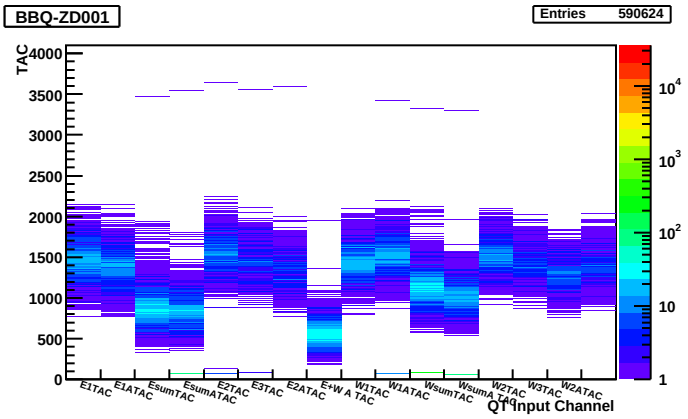

BBQ-BB002 (BBC west small tiles ADC)
Entries 590624
ADC
QT Input Channel

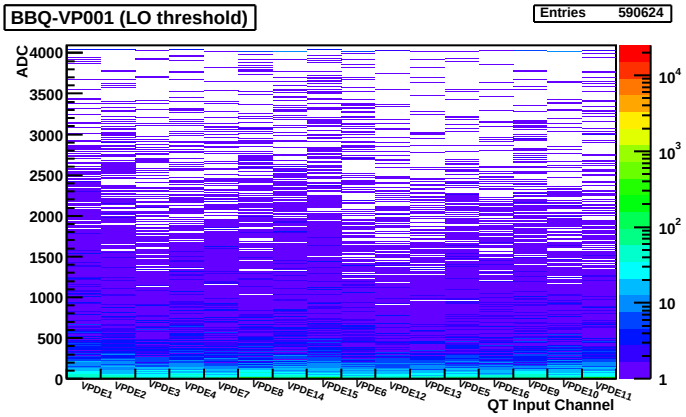

BBQ-BB002 (BBC west small tiles TAC)
Entries 590624
TAC
QT Input Channel

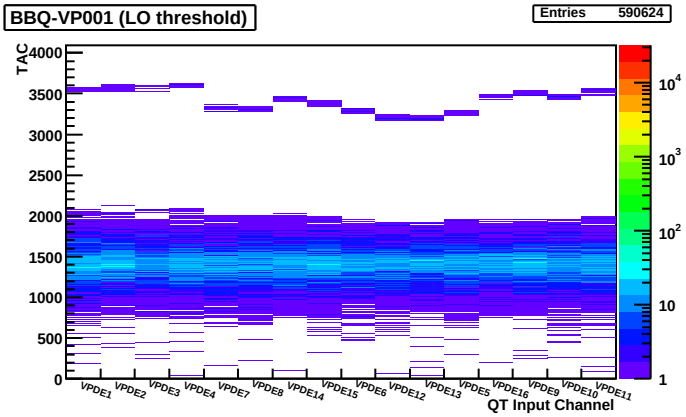

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 590624
ADC
QT Input Channel

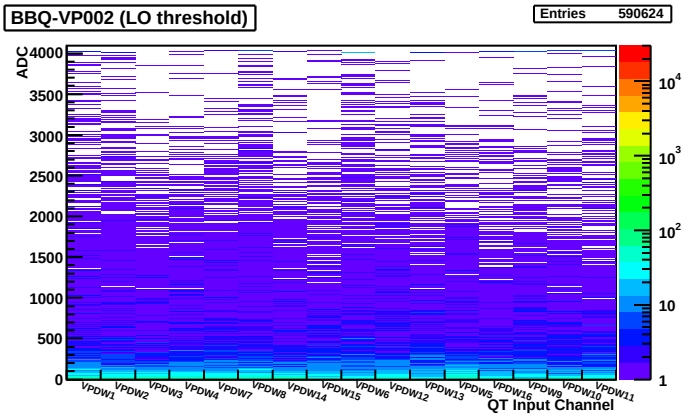

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 590624
TAC
QT Input Channel

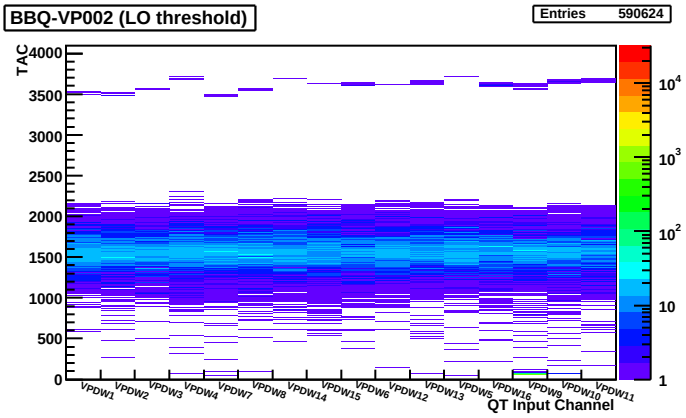

BBQ-ZD001
Entries 590624
ADC
QT Input Channel

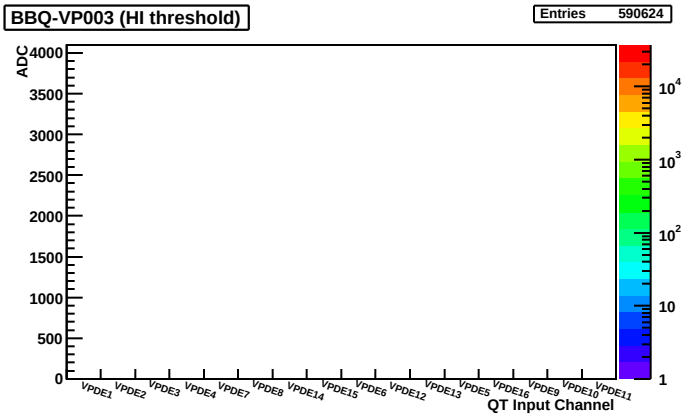

BBQ-ZD001
Entries 590624
TAC
QT Input Channel

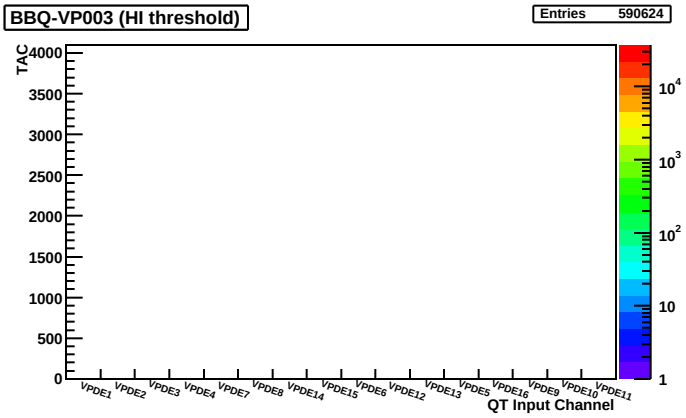

BBQ-VP001 (LO threshold)
Entries 590624
ADC
QT Input Channel

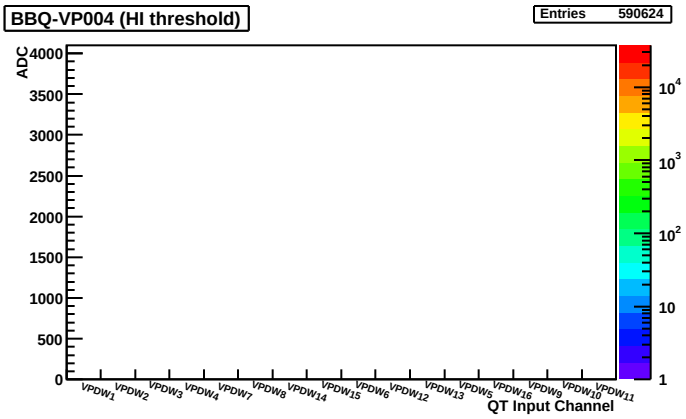

BBQ-VP001 (LO threshold)
Entries 590624
TAC
QT Input Channel

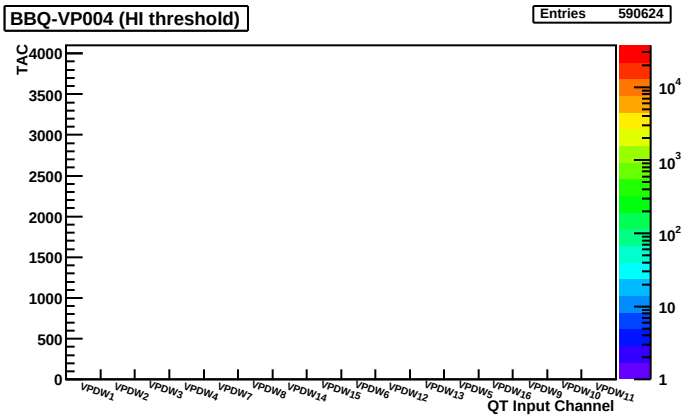

BBQ-VP002 (LO threshold)
Entries 590624
ADC
QT Input Channel

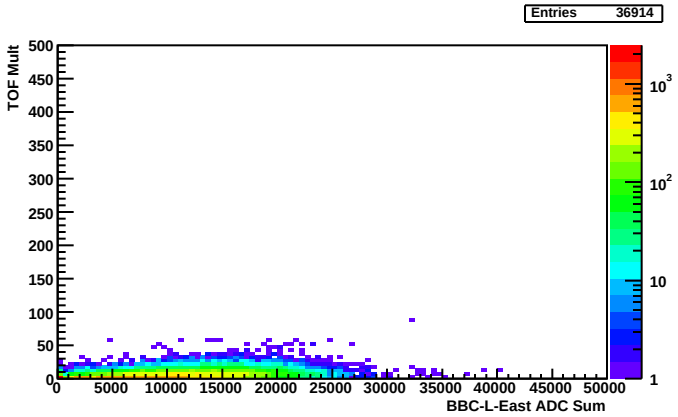

BBQ-VP002 (LO threshold)
Entries 590624
TAC
QT Input Channel

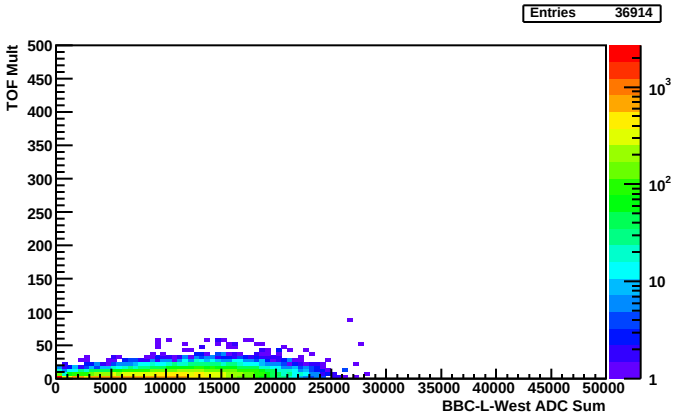

BBQ-VP003 (HI threshold)
Entries 590624
ADC
QT Input Channel

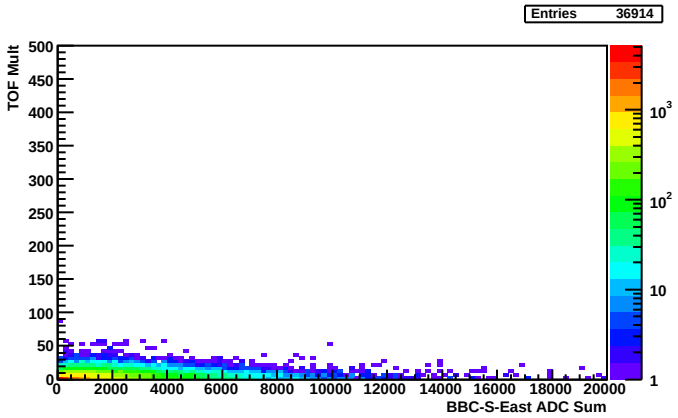

BBQ-VP003 (HI threshold)
Entries 590624
TAC
QT Input Channel

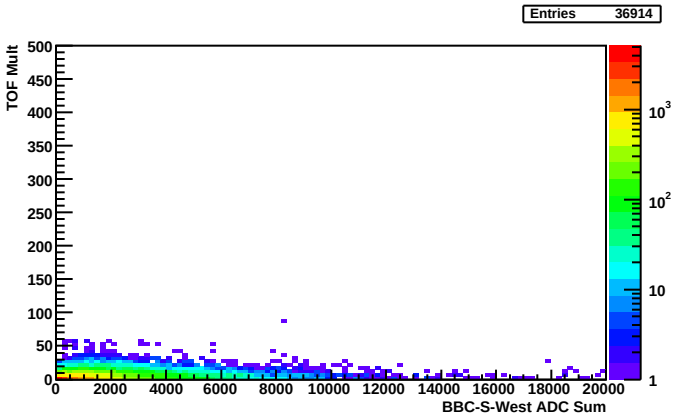

BBQ-VP004 (HI threshold)
Entries 590624
ADC
QT Input Channel

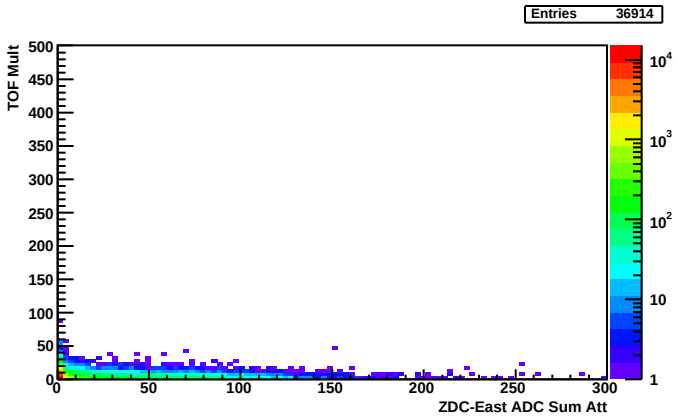

BBQ-VP004 (HI threshold)
Entries 590624
TAC
QT Input Channel

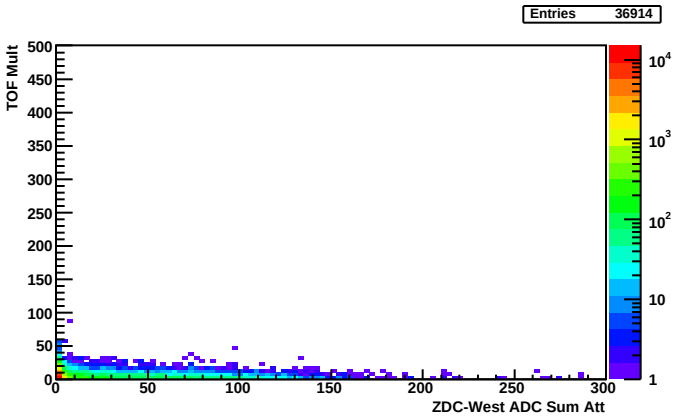

Entries 36914
TOF Mult
BBC-L-East ADC Sum

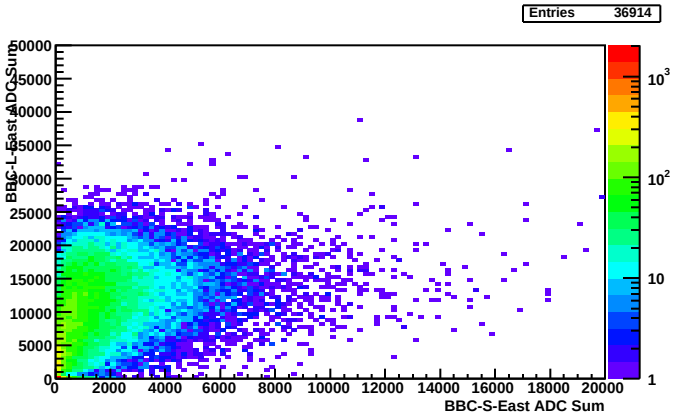

Entries 36914
TOF Mult
BBC-L-West ADC Sum

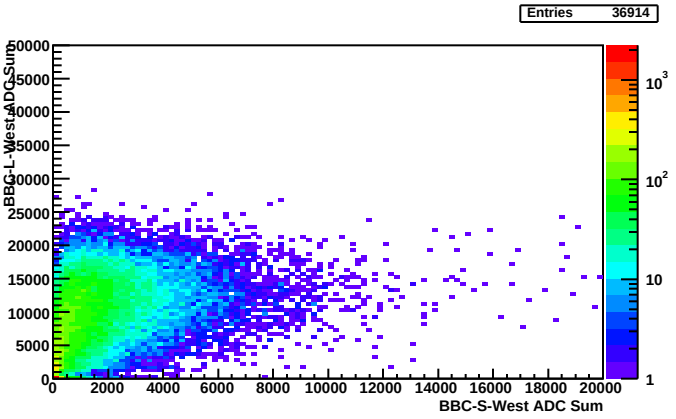

Entries 36914
TOF Mult
BBC-S-East ADC Sum

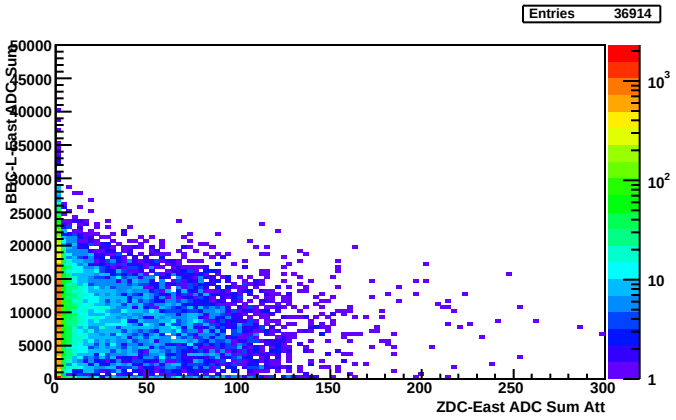

Entries 36914
TOF Mult
BBC-S-West ADC Sum

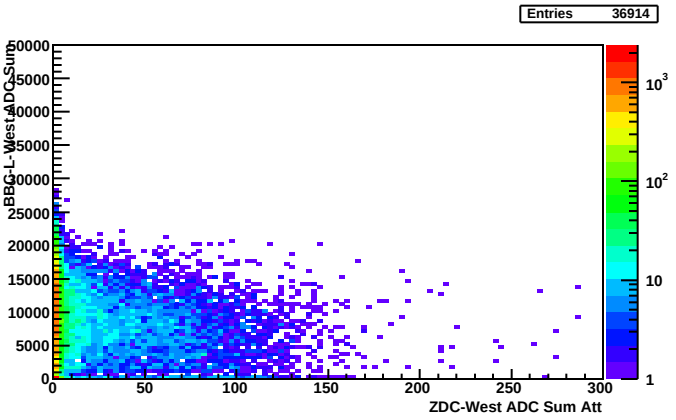

Entries 36914
TOF Mult
ZDC-East ADC Sum Att

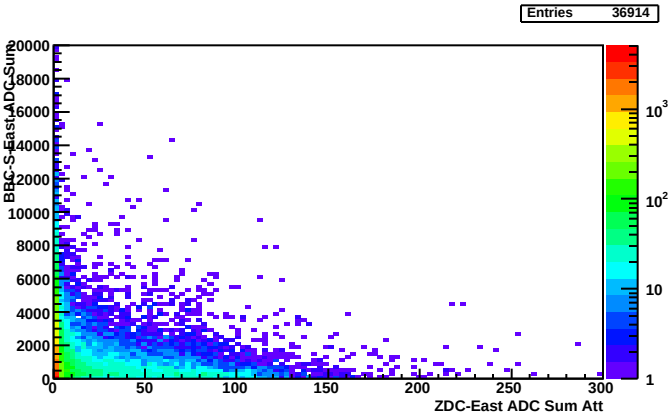

Entries 36914
TOF Mult
ZDC-West ADC Sum Att

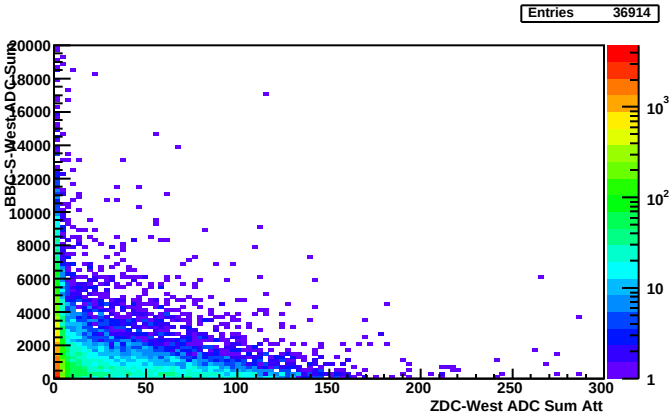

Entries 36914
BBC-L-East ADC Sum
BBC-S-East ADC Sum

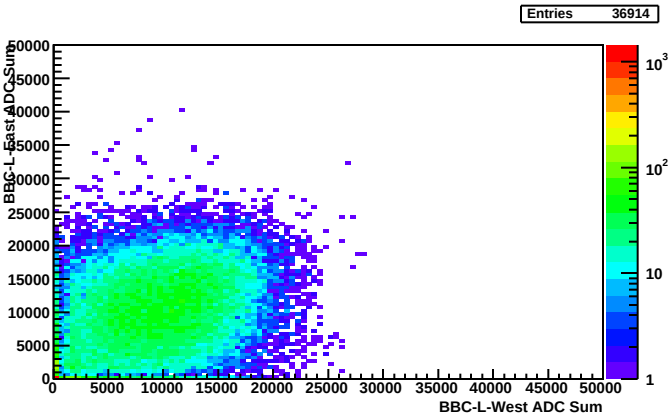

Entries 36914
BBC-L-West ADC Sum
BBC-S-West ADC Sum

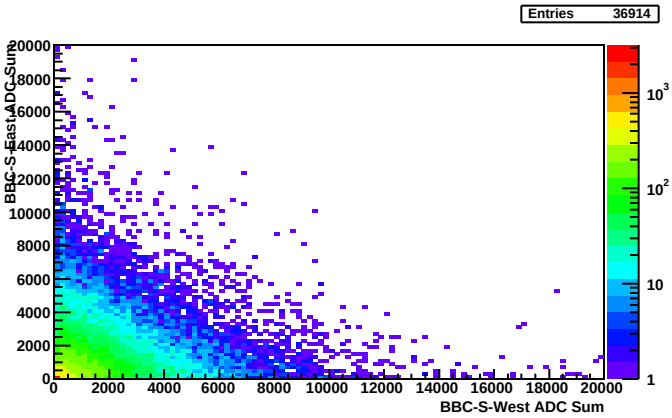

Entries 36914
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

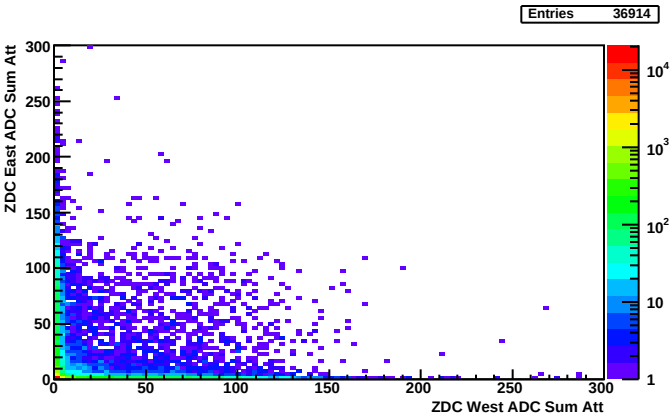

Entries 36914
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

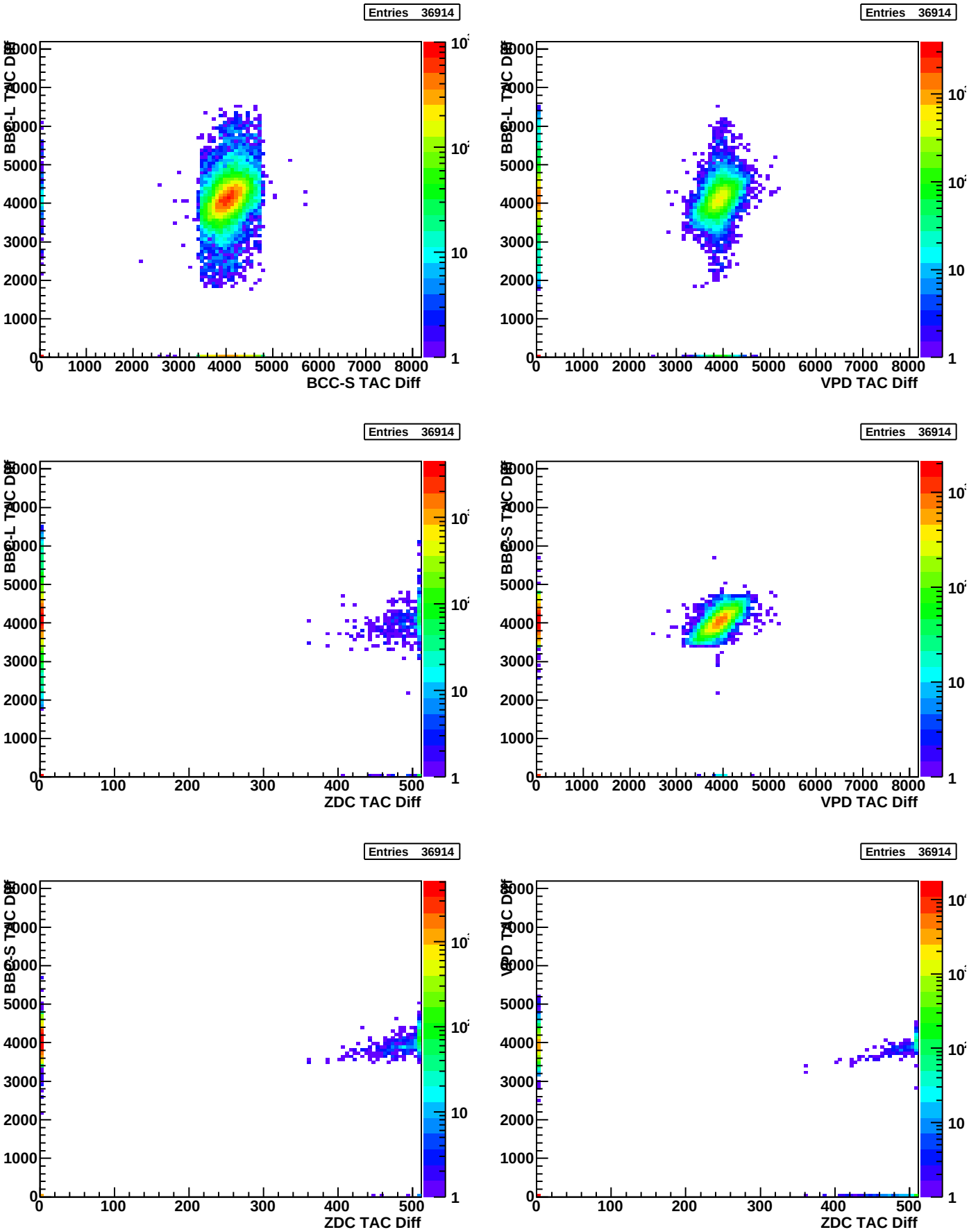

Entries 36914
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

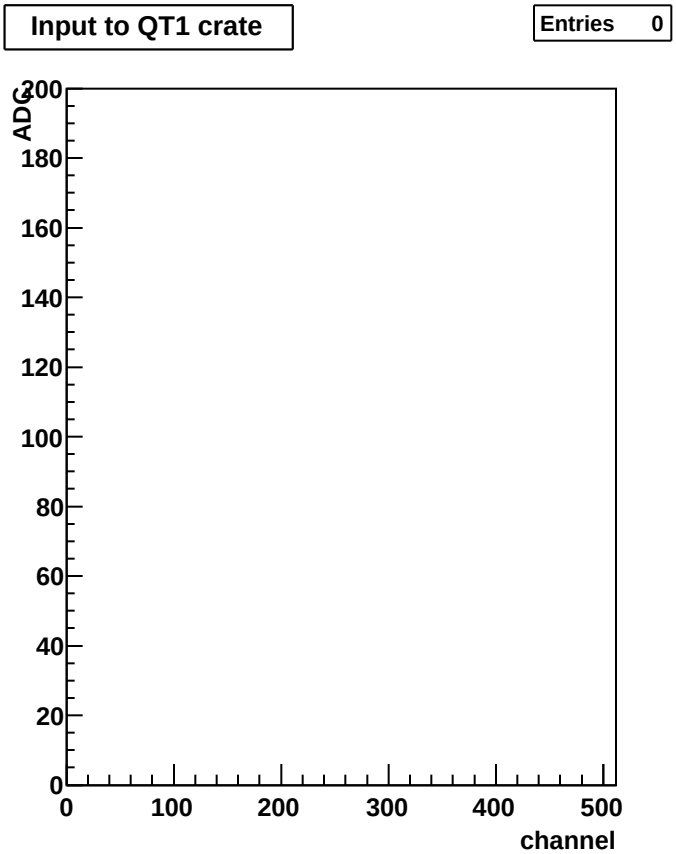

Entries 36914
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

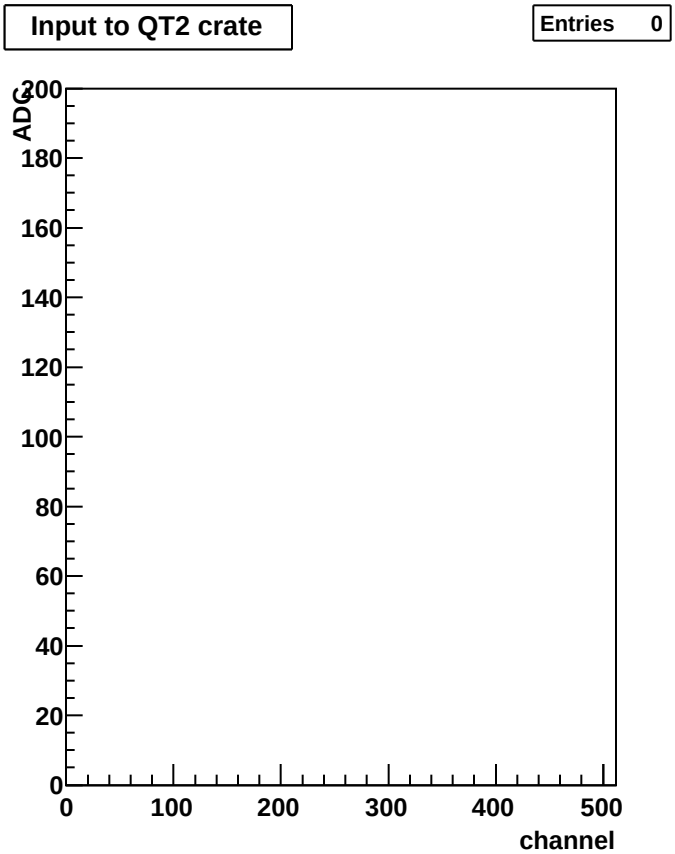

Entries 36914
BBC-L-East ADC Sum
BBC-L-West ADC Sum

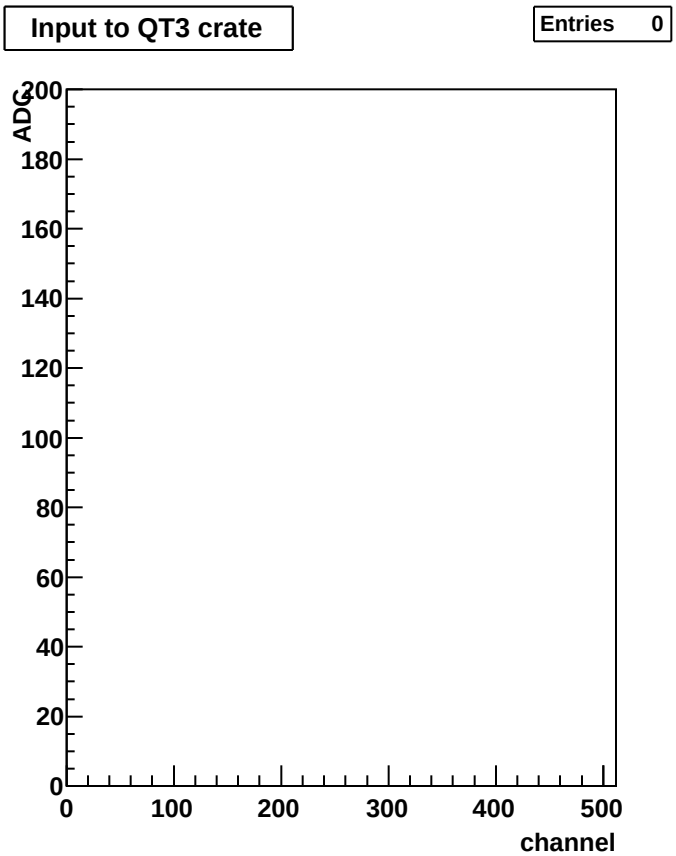

Entries 36914
BBC-S-East ADC Sum
BBC-S-West ADC Sum

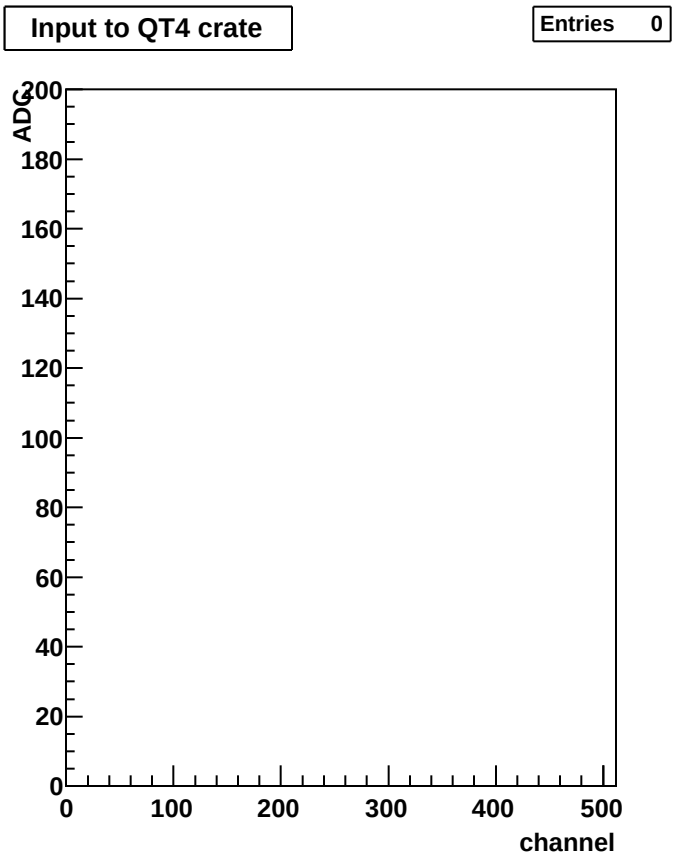

Entries 36914
ZDC East ADC Sum Att
ZDC West ADC Sum Att

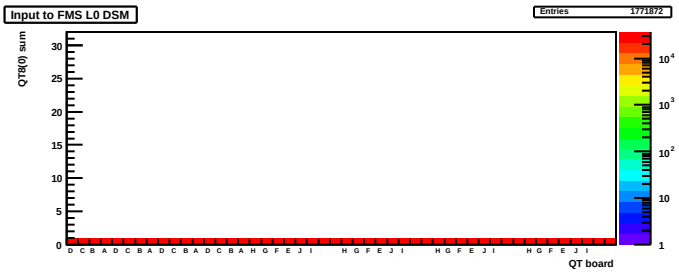

Entries 36914
BBC-L TAC Diff
BCC-S TAC Diff
Entries 36914
BBC-L TAC Diff
VPD TAC Diff
Entries 36914
BBC-L TAC Diff
ZDC TAC Diff
Entries 36914
BBC-S TAC Diff
VPD TAC Diff
Entries 36914
BBC-S TAC Diff
ZDC TAC Diff
Entries 36914
VPD TAC Diff
ZDC TAC Diff

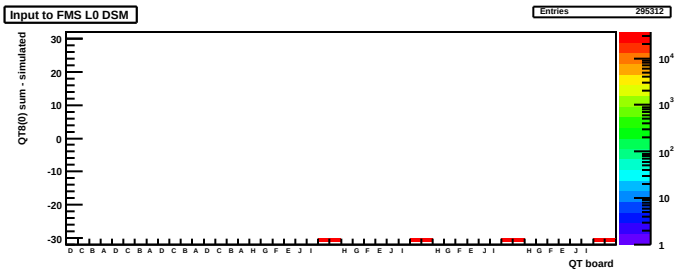

Input to QT1 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

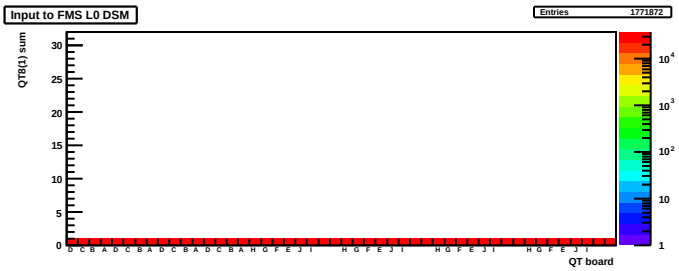

Input to QT2 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

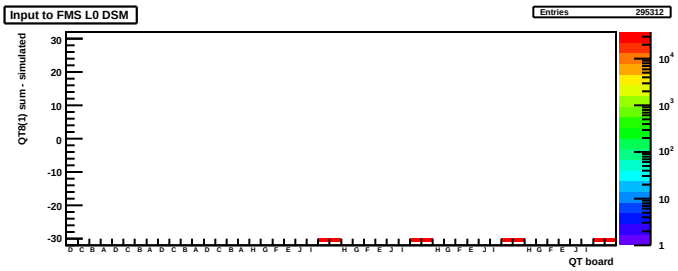

Input to QT3 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

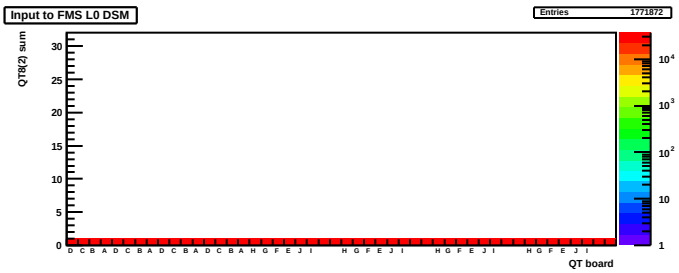

Input to QT4 crate
Entries 0
ADC
200
180
160
140
120
100
80
60
40
20
0
0
100
200
300
400
500
channel

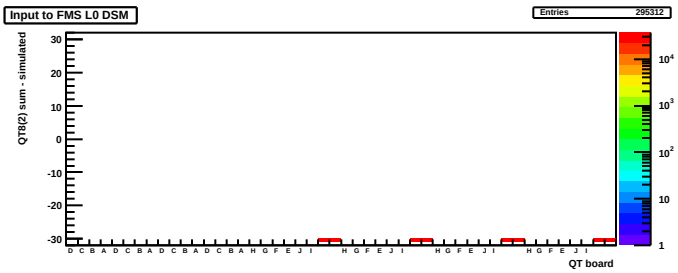

Input to FMS L0 DSM
Entries 1771872
QT8(0) sum
QT board

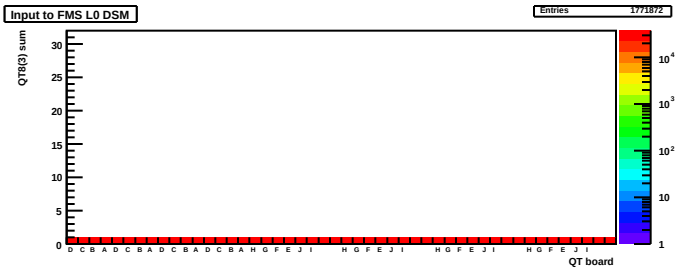

Input to FMS L0 DSM
Entries 295312
QT8(0) sum - simulated
QT board

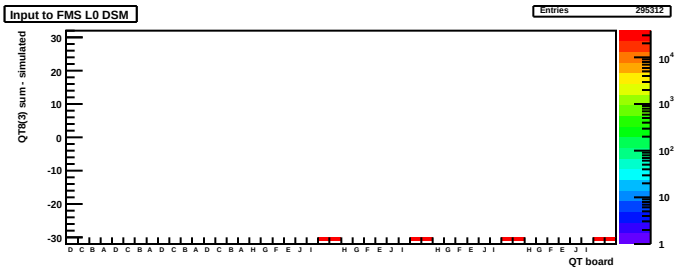

Input to FMS L0 DSM
Entries 1771872
QT8(1) sum
QT board

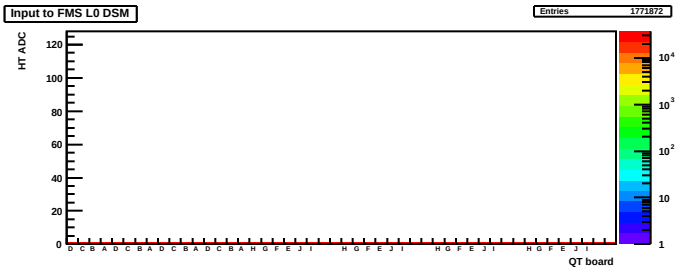

Input to FMS L0 DSM
Entries 295312
QT8(1) sum - simulated
QT board

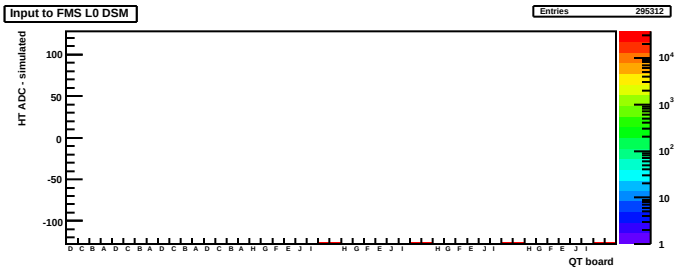

Input to FMS L0 DSM
Entries 1771872
QT8(2) sum
QT board

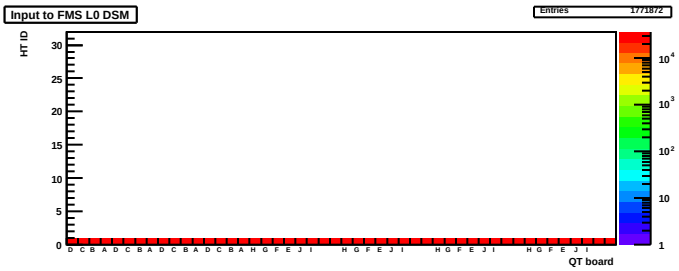

Input to FMS L0 DSM
Entries 295312
QT8(2) sum - simulated
QT board

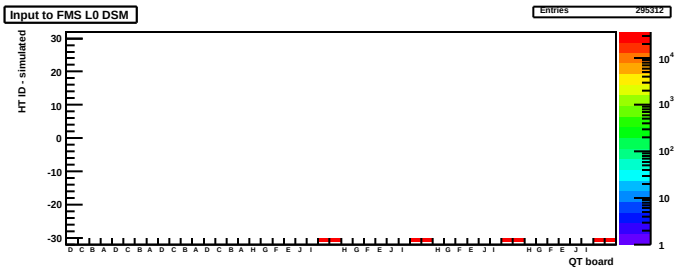

Input to FMS L0 DSM
Entries 1771872
QT8(3) sum
QT board

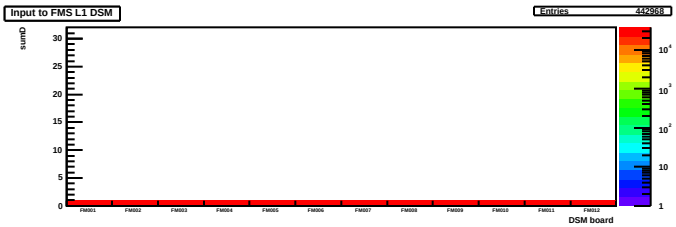

Input to FMS L0 DSM
Entries 295312
QT8(3) sum - simulated
QT board

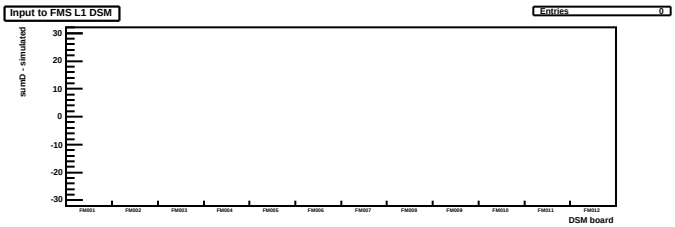

Input to FMS L0 DSM
Entries 1771872
HT ADC
QT board

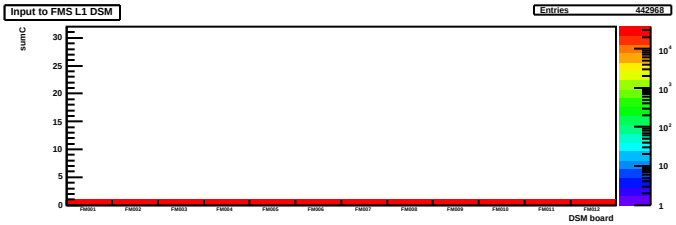

Input to FMS L0 DSM
Entries 295312
HT ADC - simulated
QT board

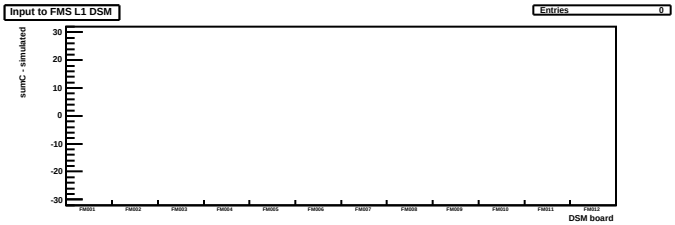

Input to FMS L0 DSM
Entries 1771872
HT ID
QT board

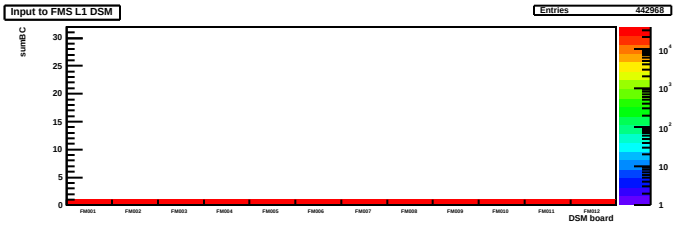

Input to FMS L0 DSM
Entries 295312
HT ID - simulated
QT board

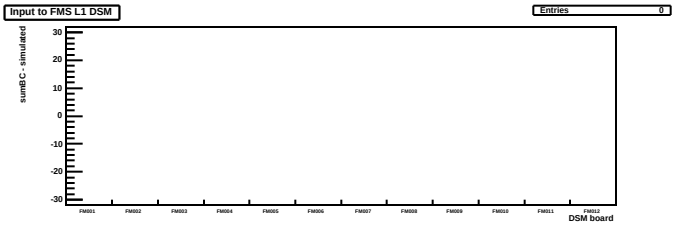

Input to FMS L1 DSM
Entries 442968
sumD
DSM board

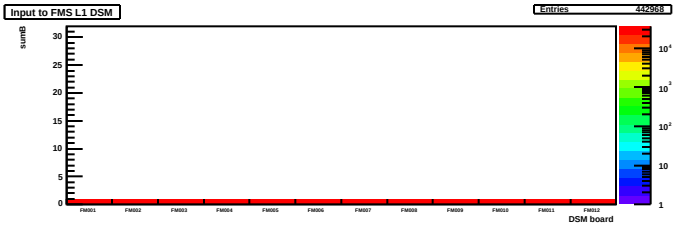

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

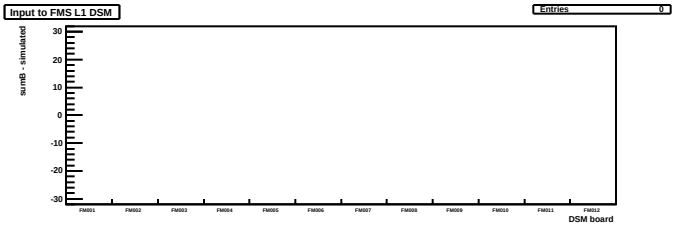

Input to FMS L1 DSM
Entries 442968
sumC
DSM board

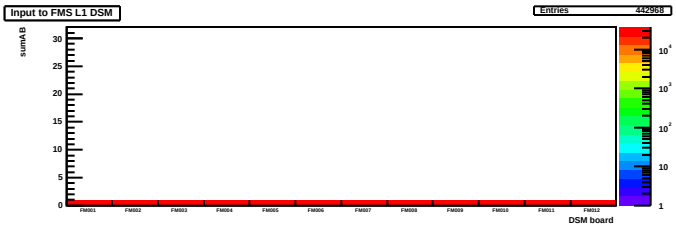

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

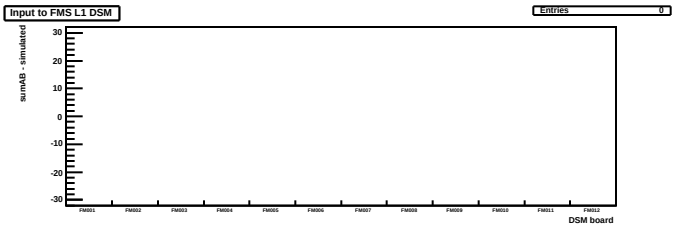

Input to FMS L1 DSM
Entries 442968
sumBC
DSM board

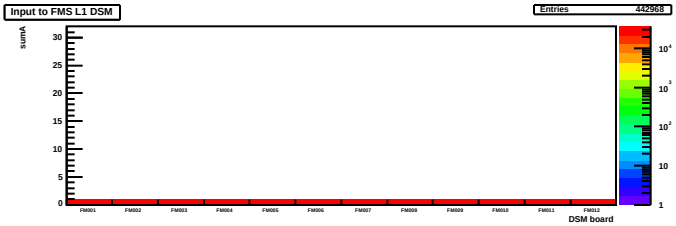

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

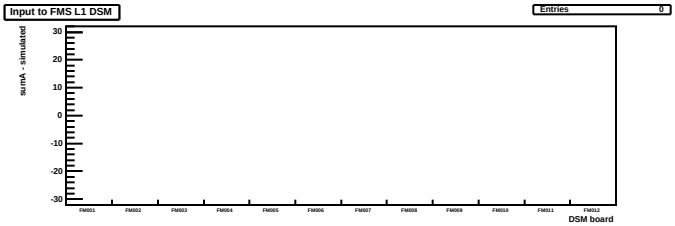

Input to FMS L1 DSM
Entries 442968
sumB
DSM board

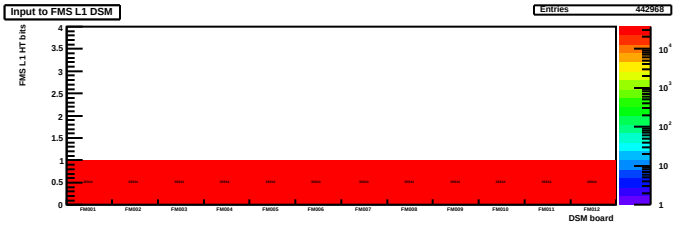

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

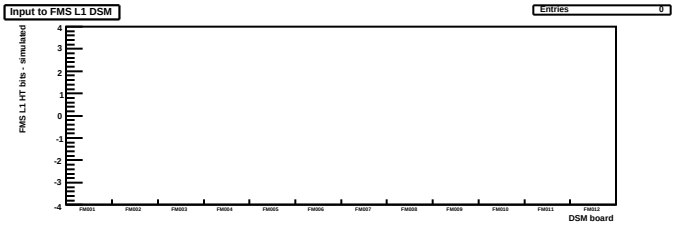

Input to FMS L1 DSM
Entries 442968
sumAB
DSM board

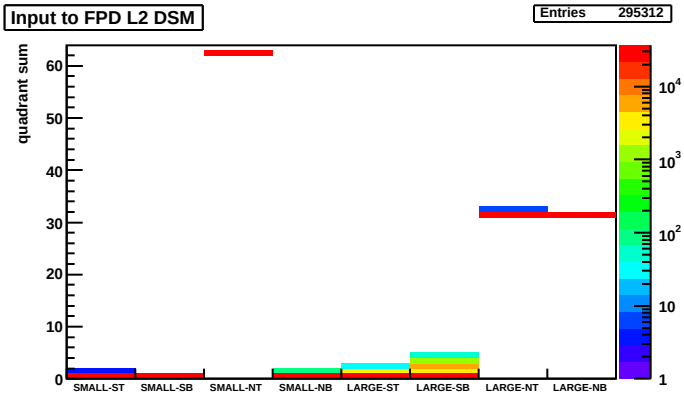

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

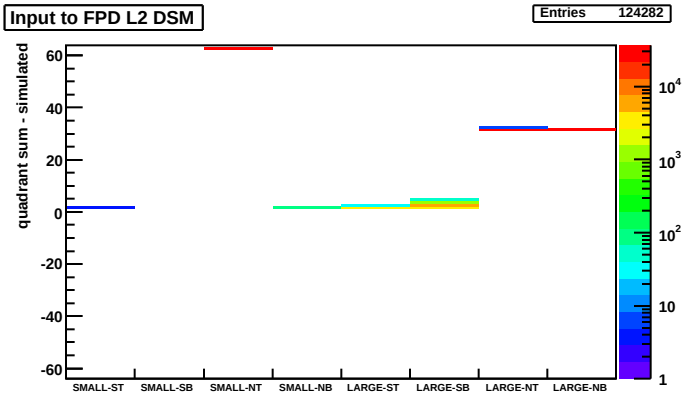

Input to FMS L1 DSM
Entries 442968
sumA
DSM board

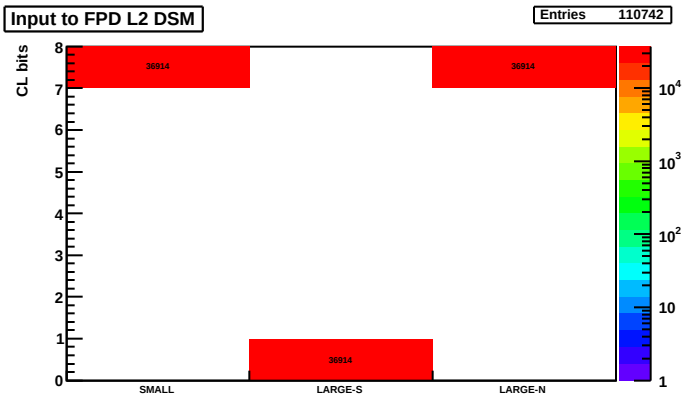

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

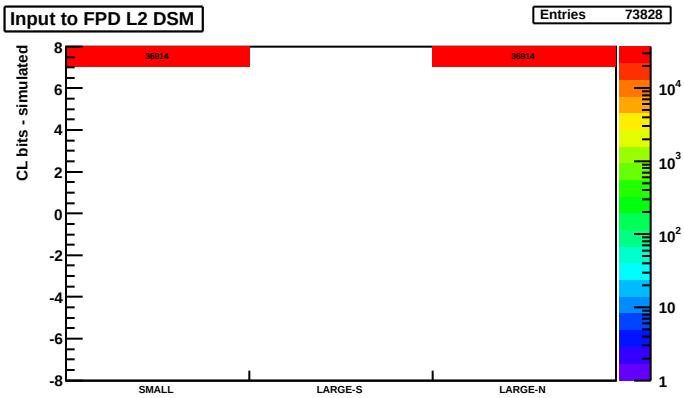

Input to FMS L1 DSM
Entries 442968
FMS L1 HT bits
DSM board

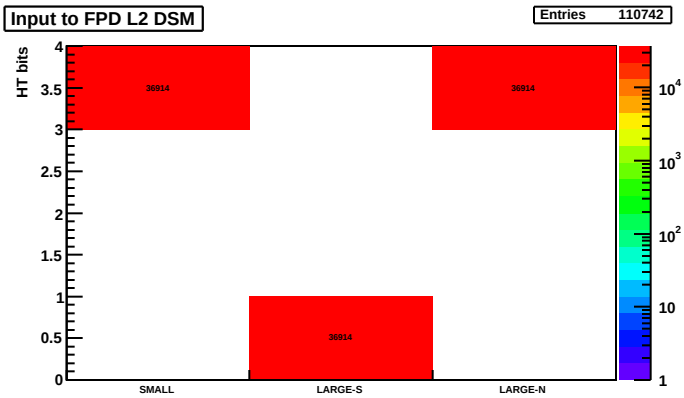

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

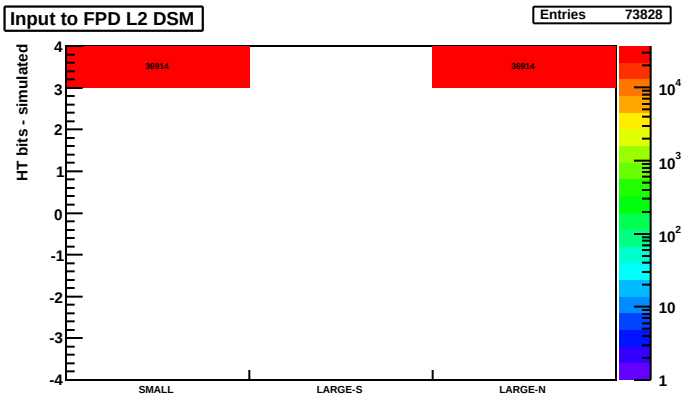

Input to FPD L2 DSM
Entries 295312
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

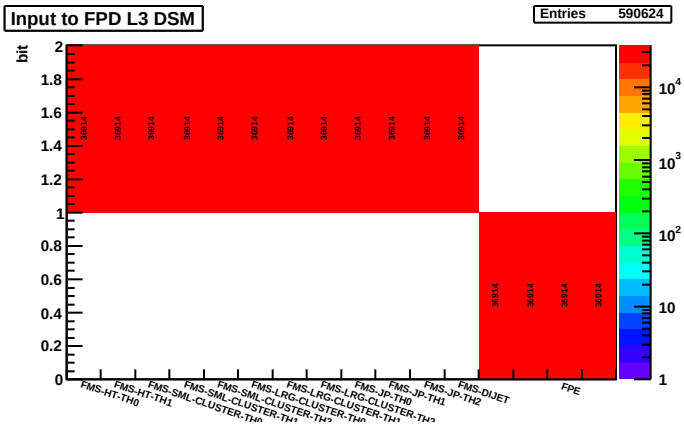

Input to FPD L2 DSM
Entries 124282
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

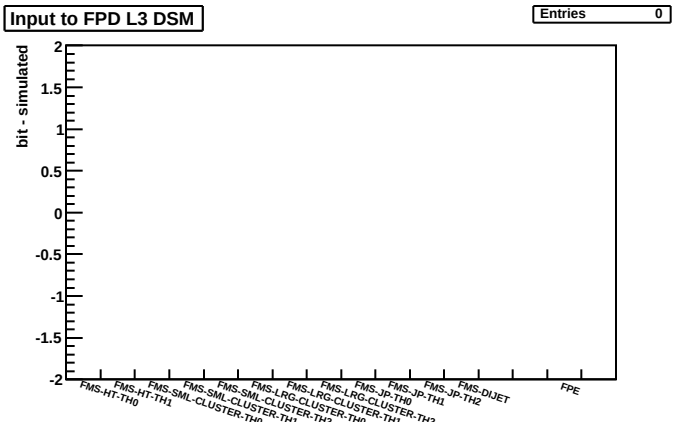

Input to FPD L2 DSM
Entries 110742
CL bits
36914
SMALL
LARGE-S
LARGE-N

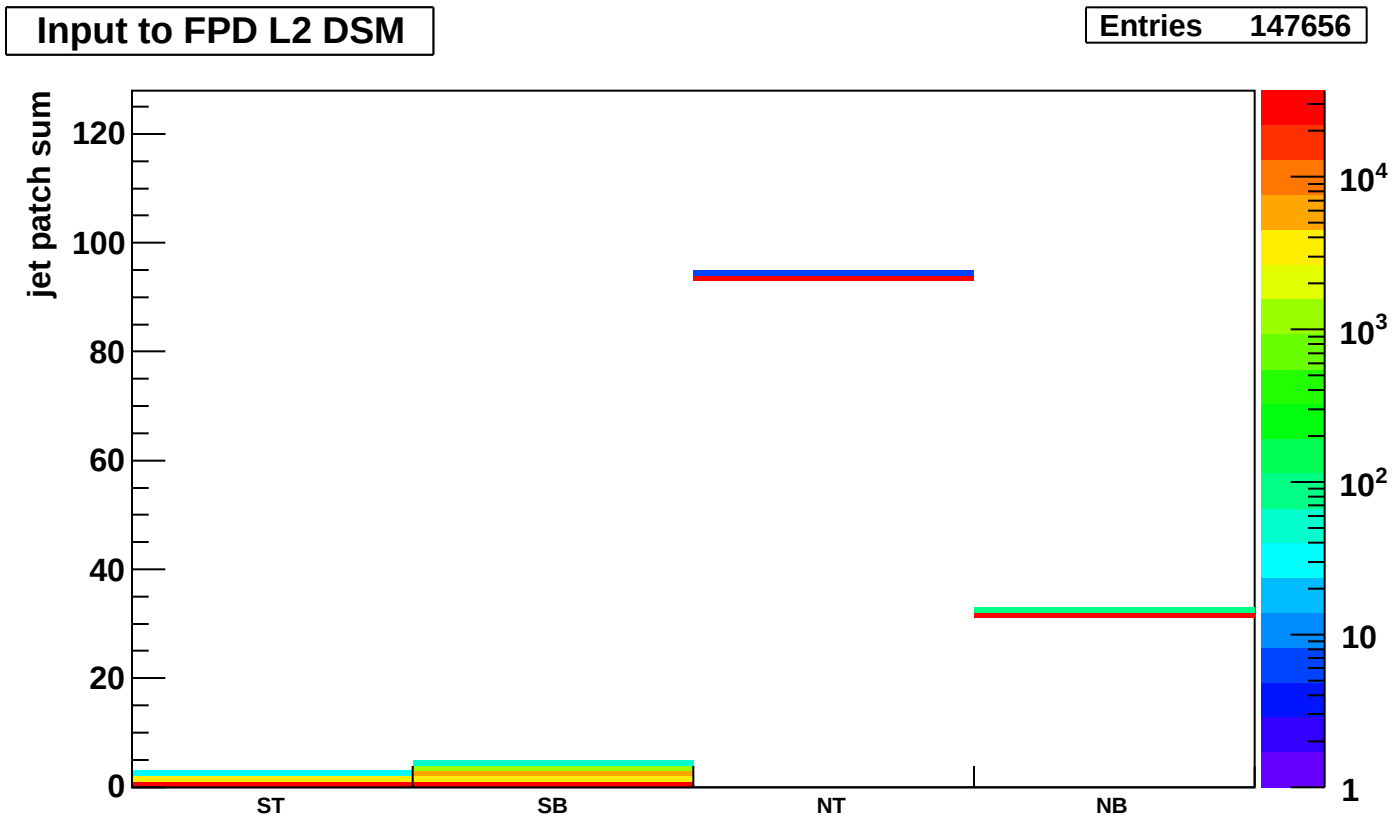

Input to FPD L2 DSM
Entries 73828
CL bits - simulated
36914
SMALL
LARGE-S
LARGE-N

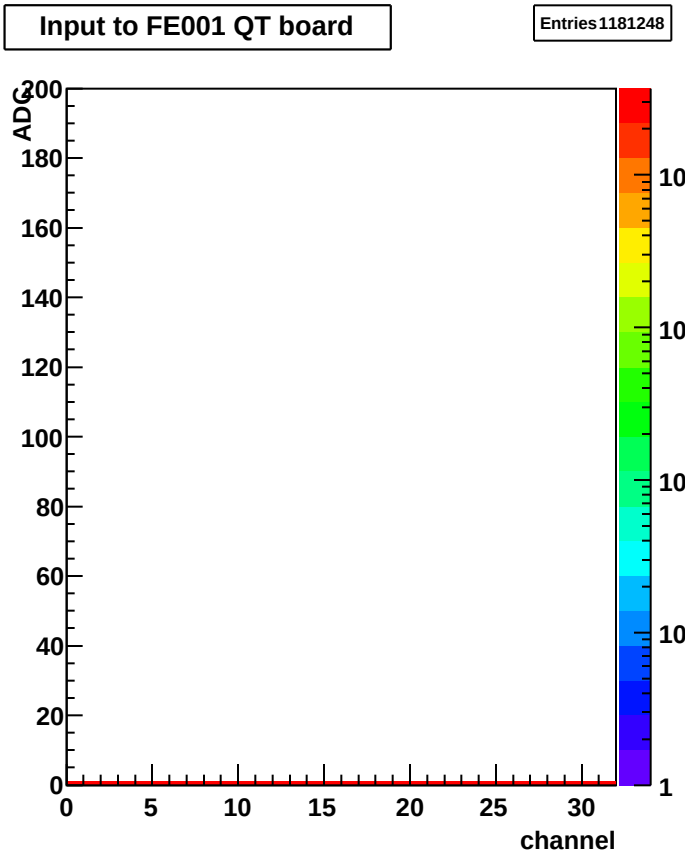

Input to FPD L2 DSM
Entries 110742
HT bits
36914
SMALL
LARGE-S
LARGE-N

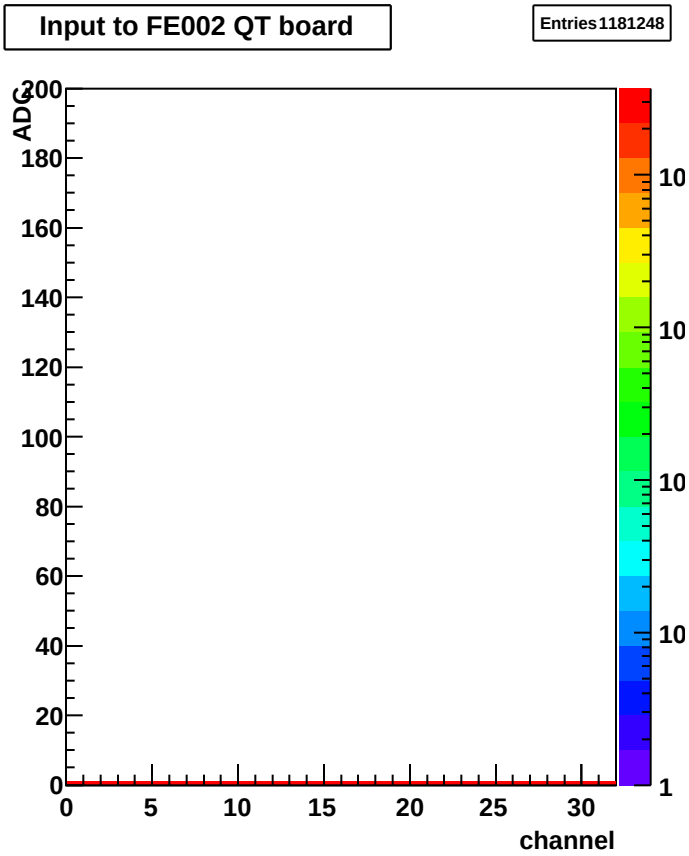

Input to FPD L2 DSM
Entries 73828
HT bits - simulated
36914
SMALL
LARGE-S
LARGE-N

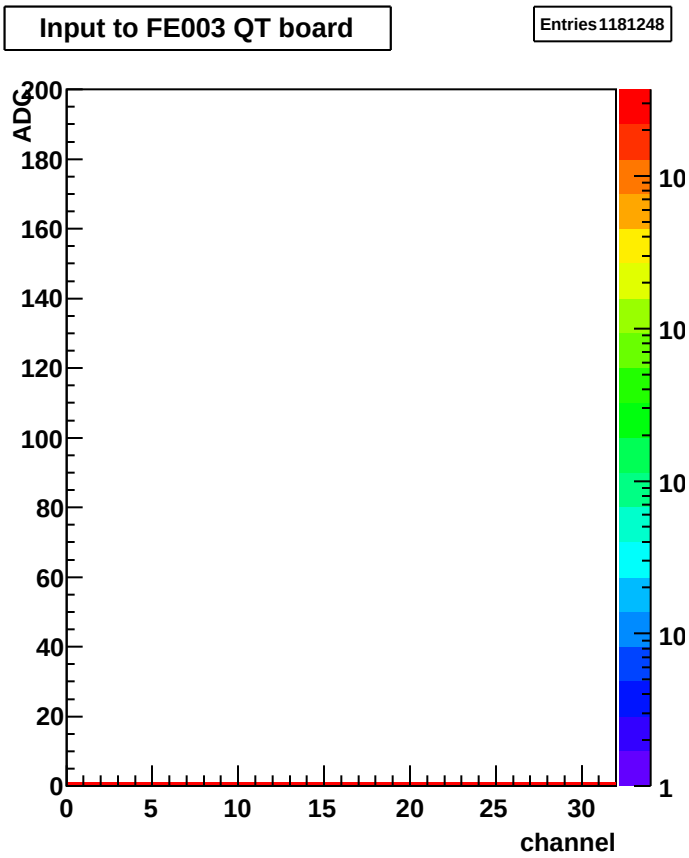

Input to FPD L3 DSM
Entries 590624
bit
36914
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

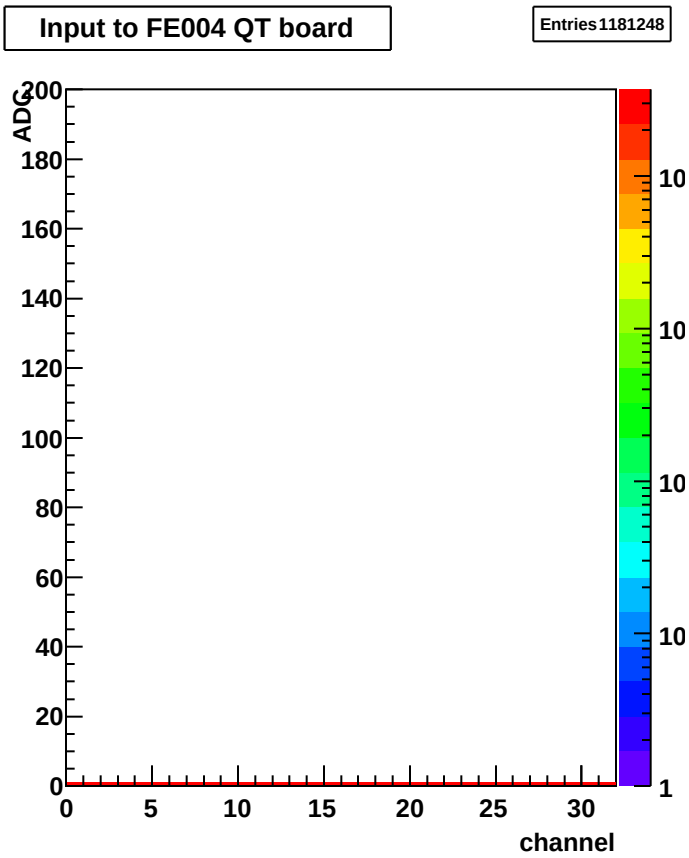

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

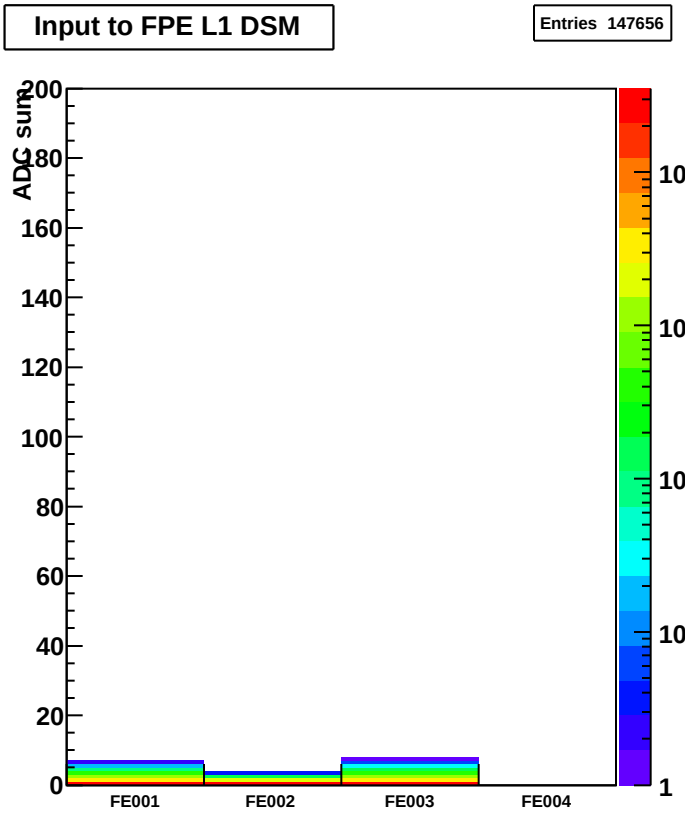

Input to FPD L2 DSM
Entries 147656
jet patch sum
120
100
80
60
40
20
0
ST
SB
NT
NB
10^4
10^3
10^2
10
1

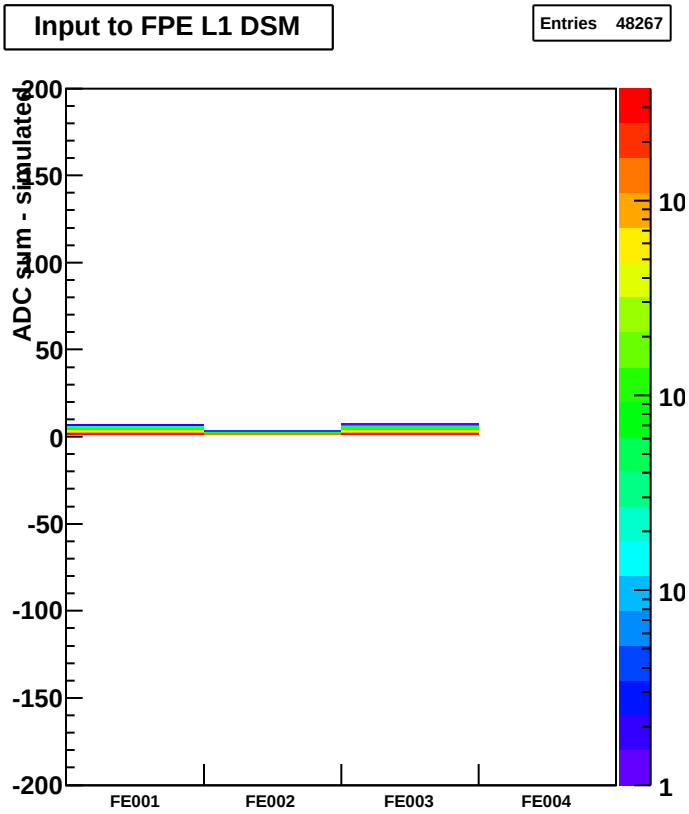

Input to FE001 QT board
Entries 1181248
ADC
channel

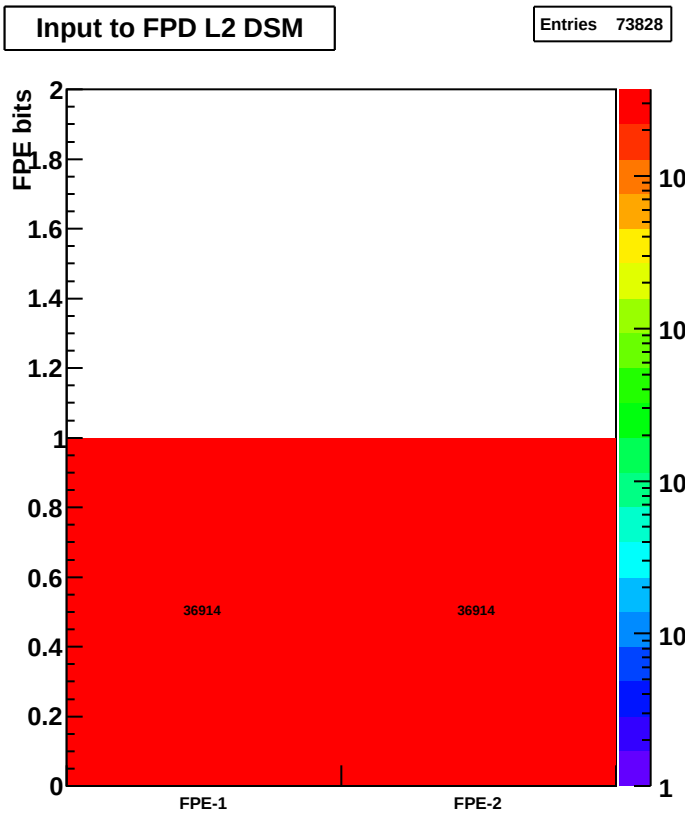

Input to FE002 QT board
Entries 1181248
ADC
channel

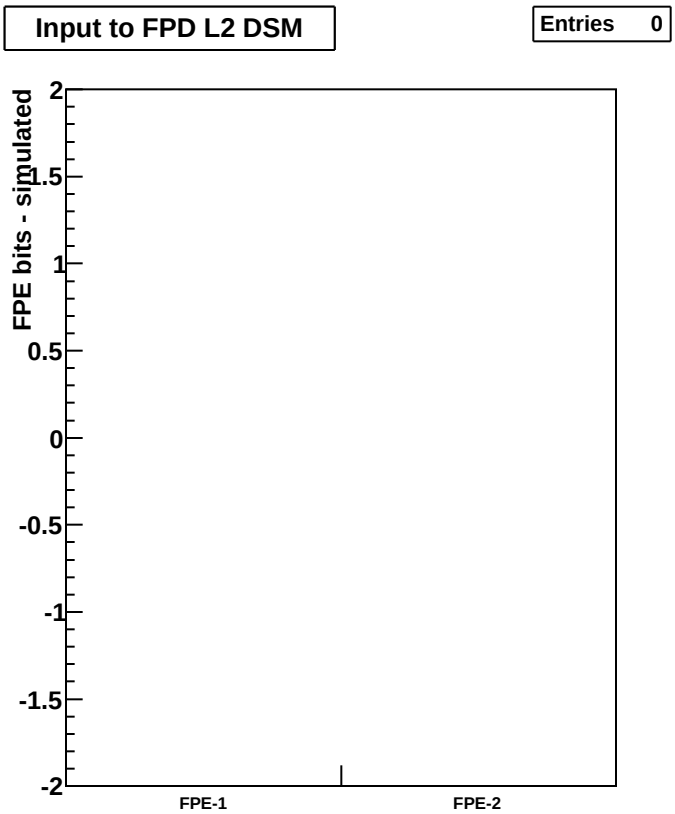

Input to FE003 QT board
Entries 1181248
ADC
channel


Input to FE004 QT board
Entries 1181248
ADC
channel


Input to FPE L1 DSM
Entries 147656
ADC sum
200
180
160
140
120
100
80
60
40
20
0
FE001
FE002
FE003
FE004
10
10
10
10
1


Input to FPE L1 DSM
Entries 48267
ADC sum - simulated
200
150
100
50
0
-50
-100
-150
-200
FE001
FE002
FE003
FE004
10
10
10
1


Input to FPD L2 DSM
Entries 73828
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
36914
36914
FPE-1
FPE-2
10
10
10
10
1


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