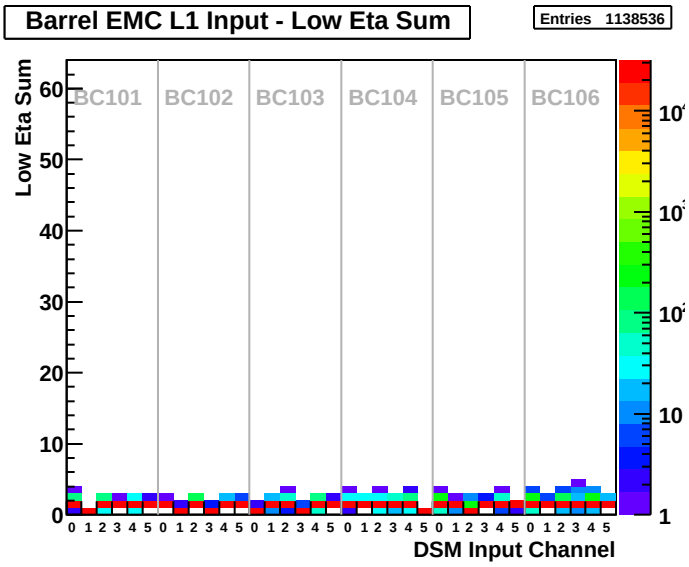
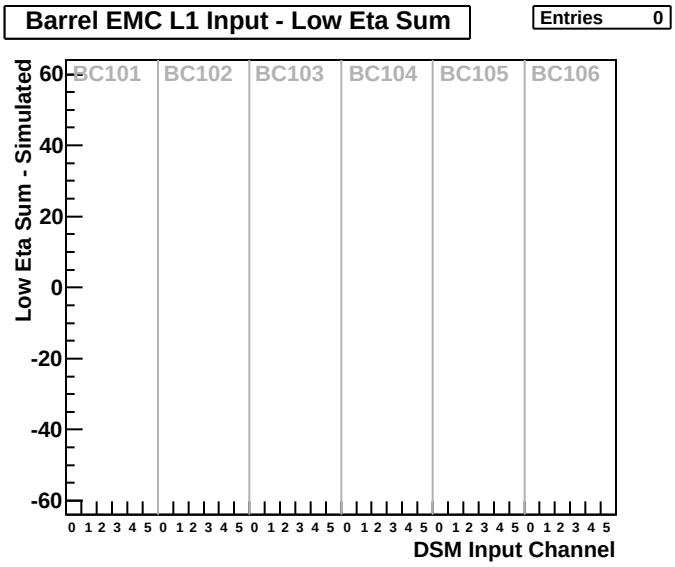
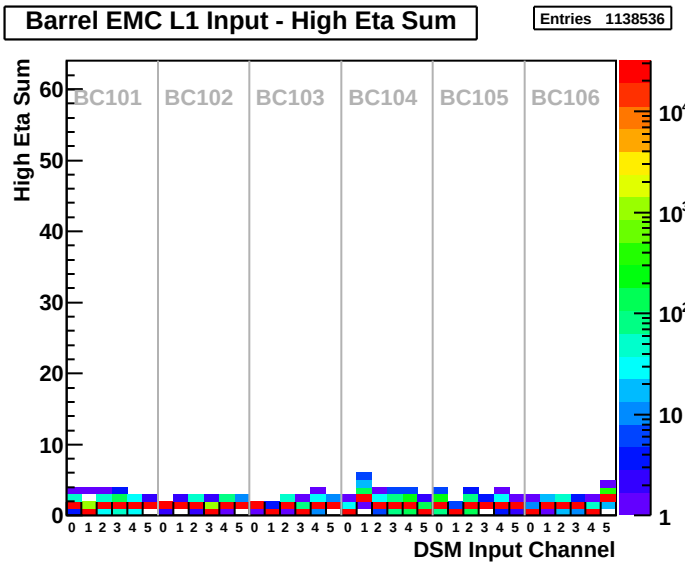
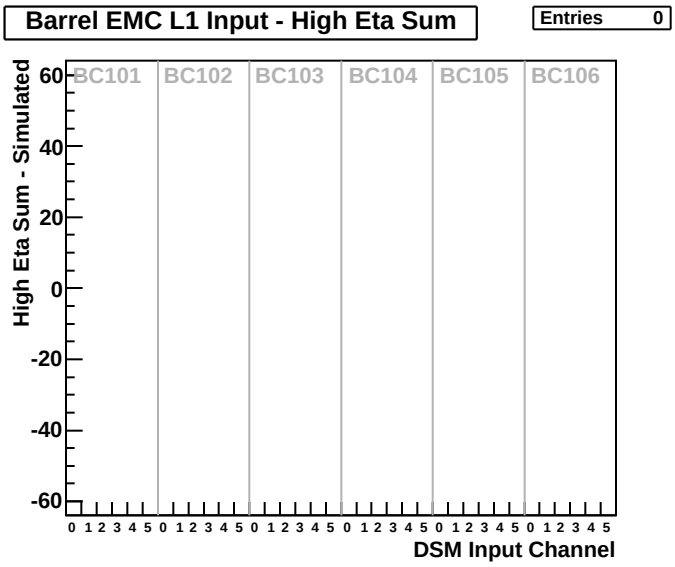
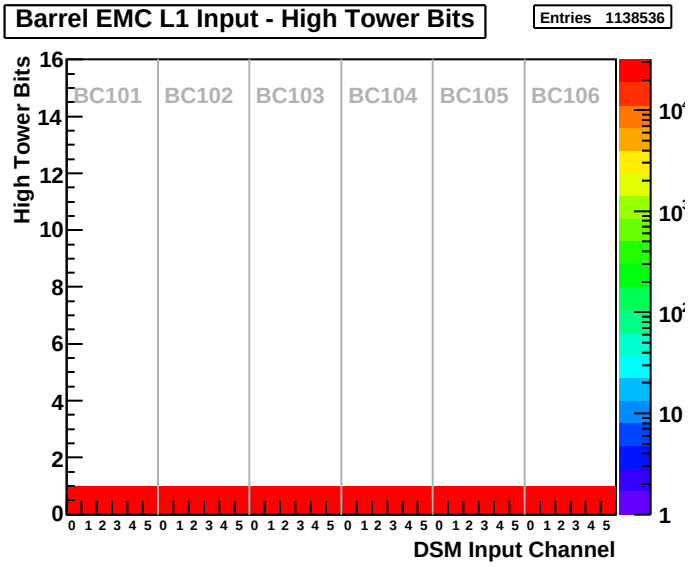
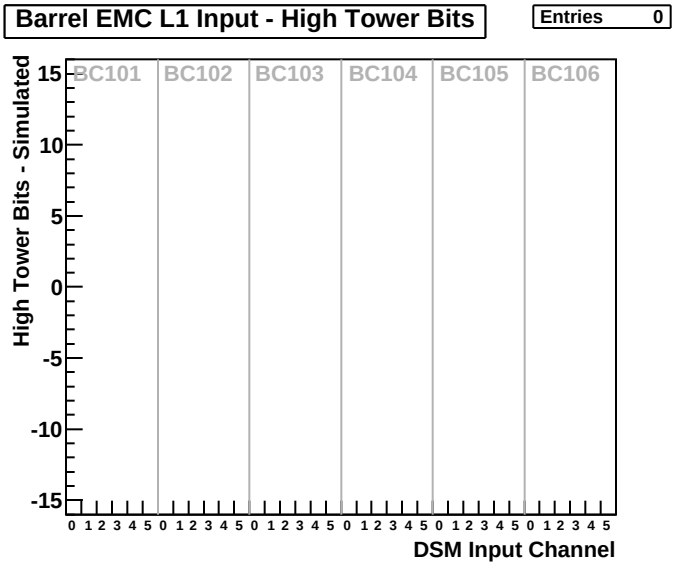

Barrel EMC L1 Input - Low Eta Sum
Entries 1138536
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

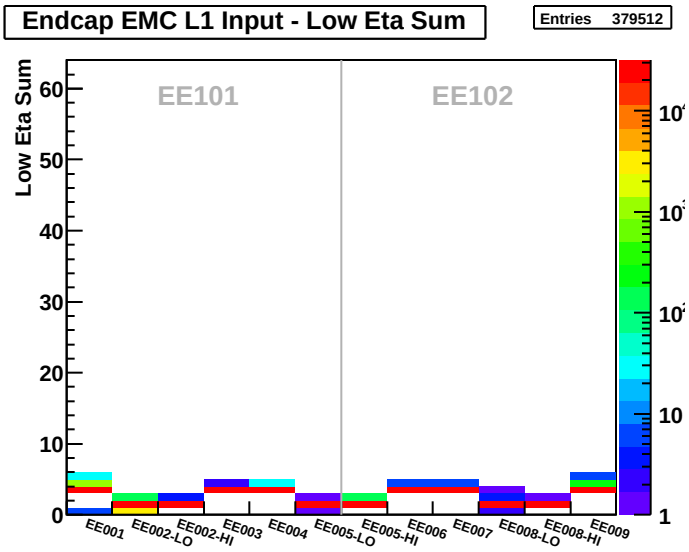

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

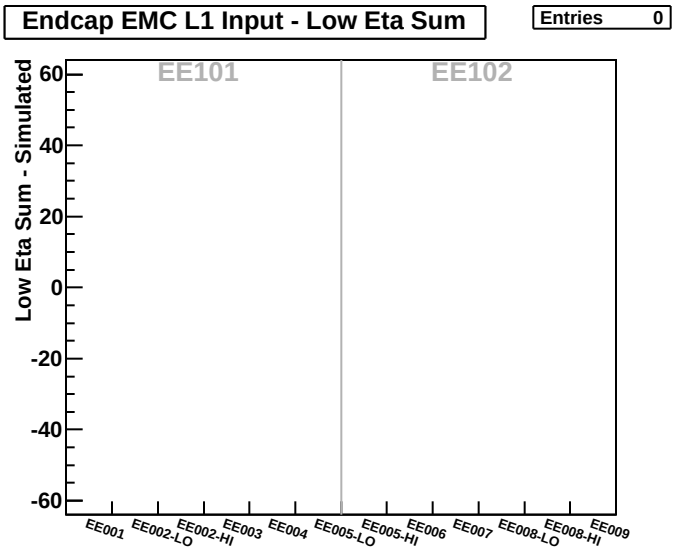

Barrel EMC L1 Input - High Eta Sum
Entries 1138536
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

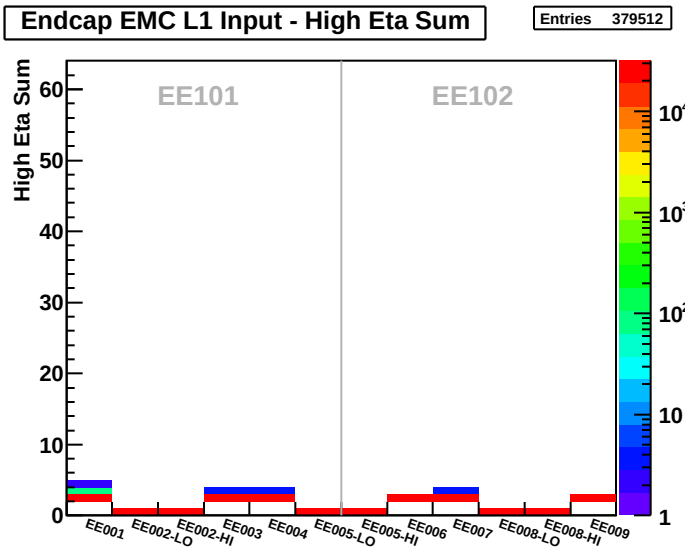

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

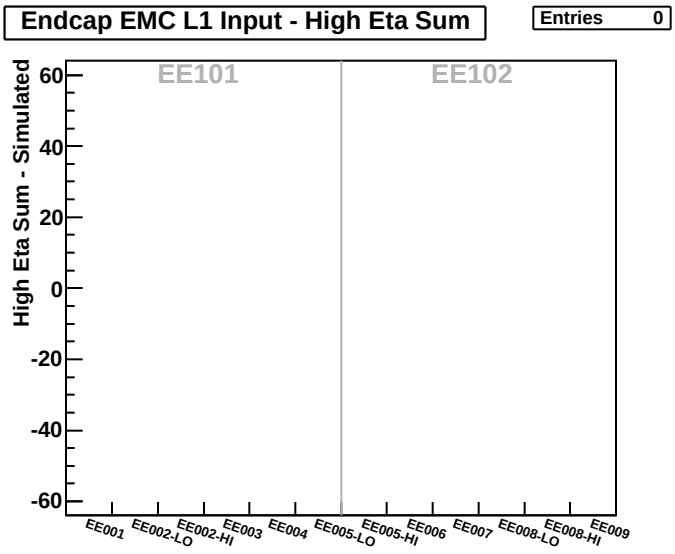

Barrel EMC L1 Input - High Tower Bits
Entries 1138536
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

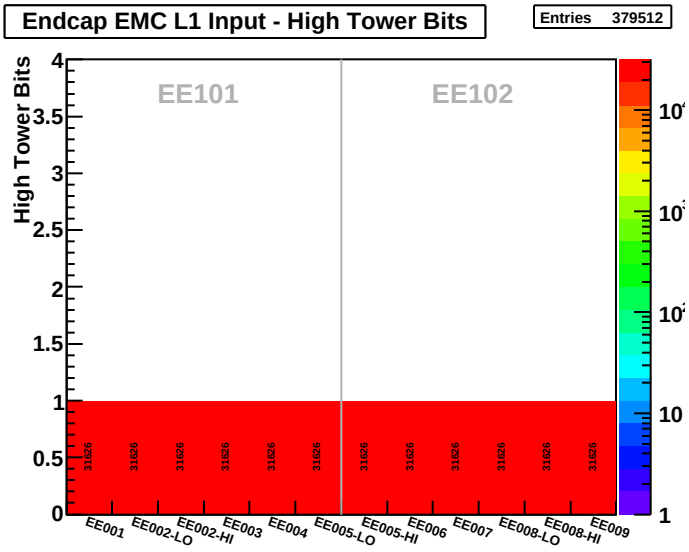

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

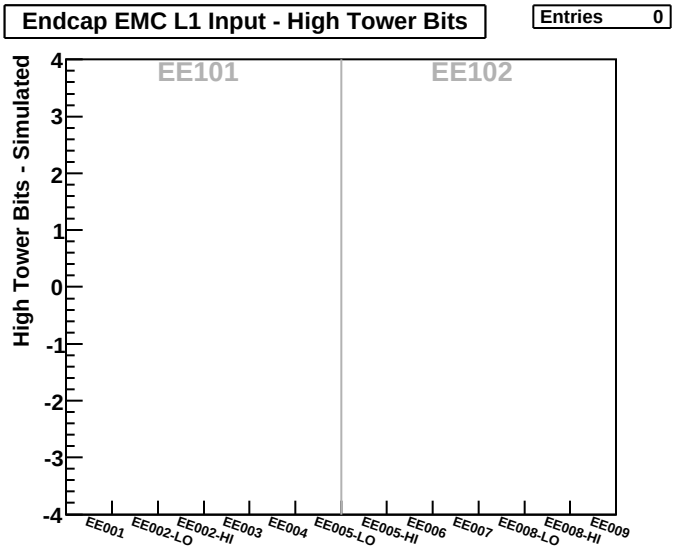

Endcap EMC L1 Input - Low Eta Sum
Entries 379512
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

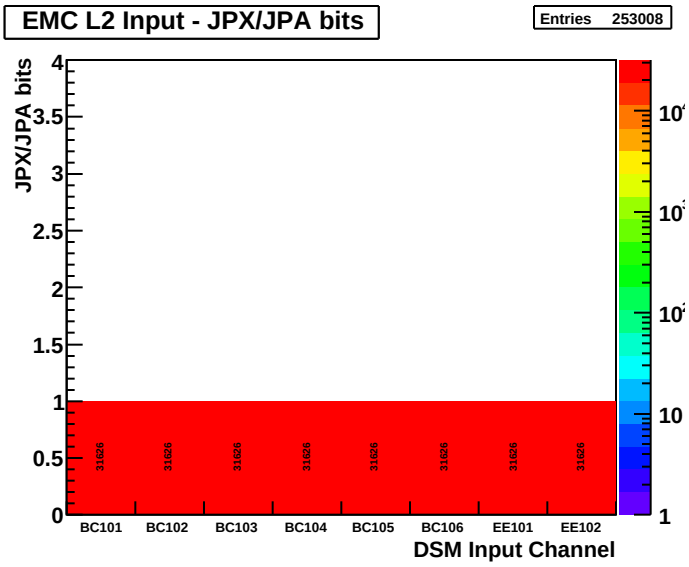

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

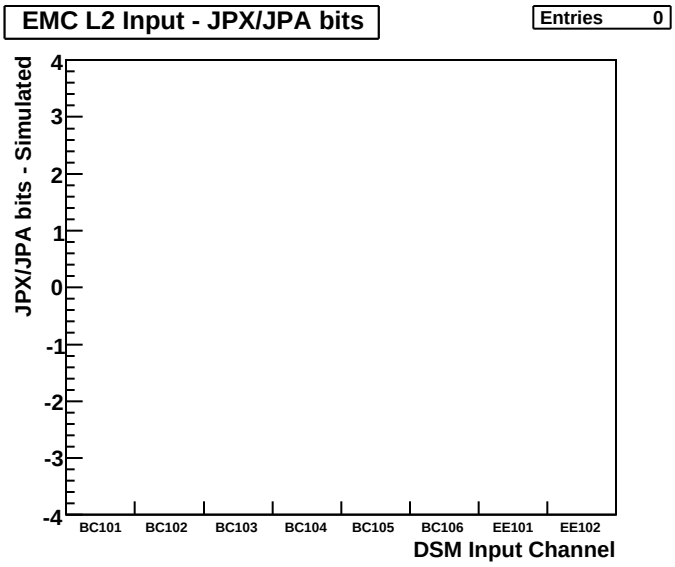

Endcap EMC L1 Input - High Eta Sum
Entries 379512
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

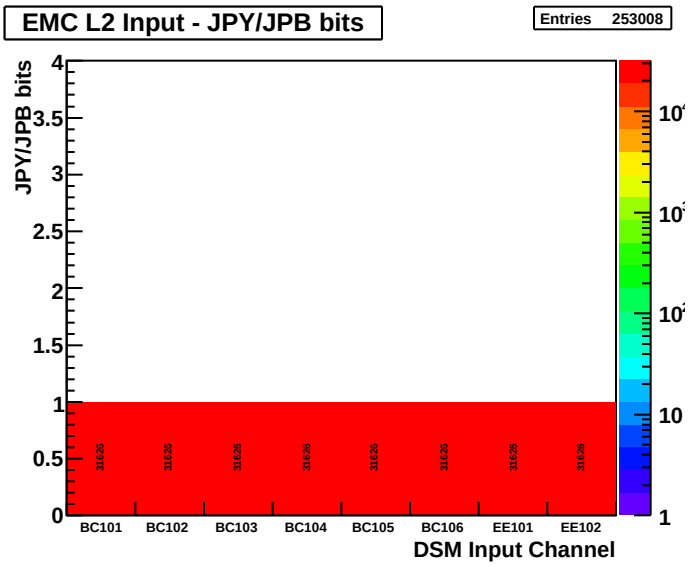

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

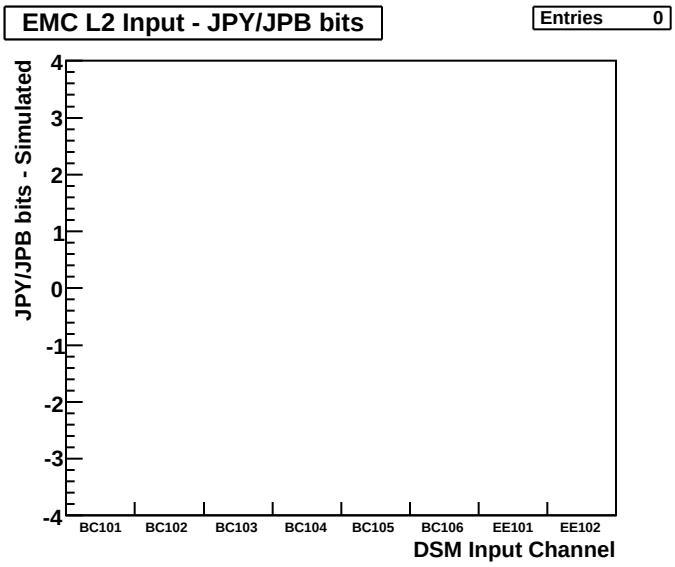

Endcap EMC L1 Input - High Tower Bits
Entries 379512
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

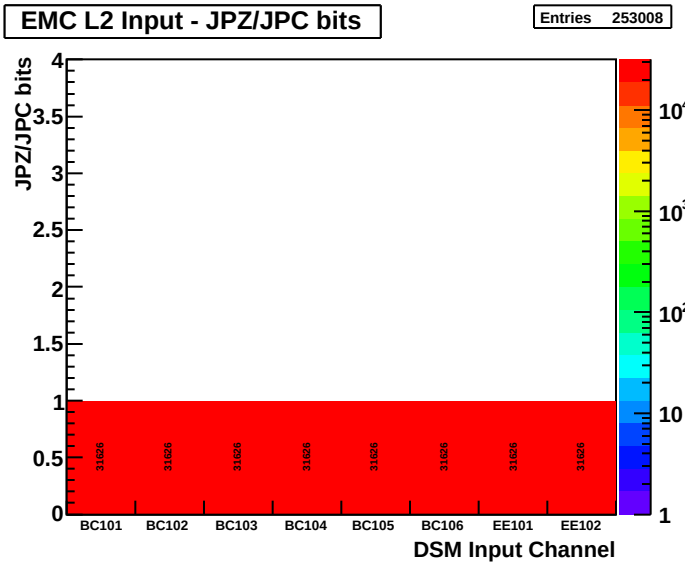

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

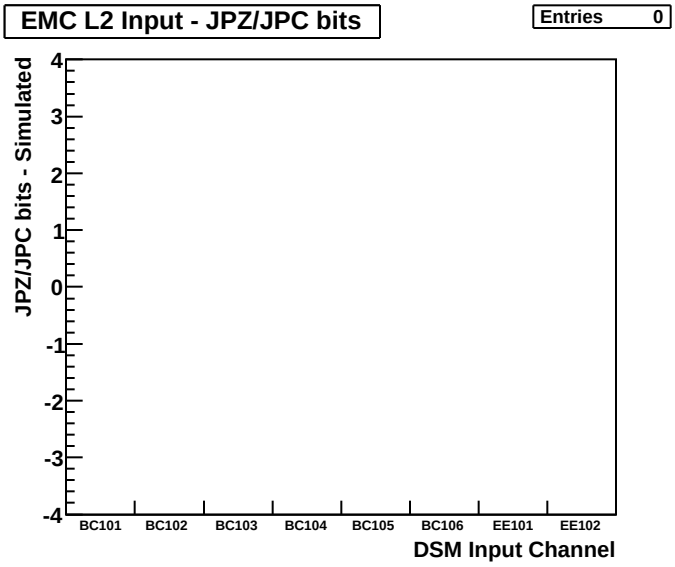

EMC L2 Input - JPX/JPA bits
Entries 253008
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
31626

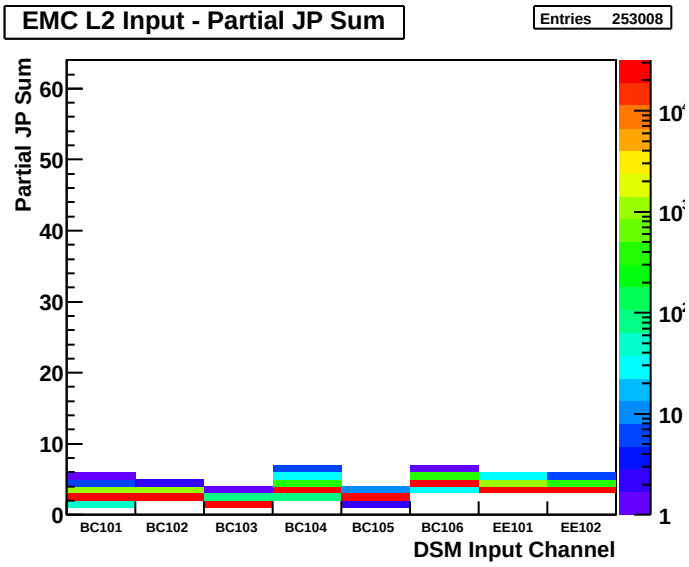

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

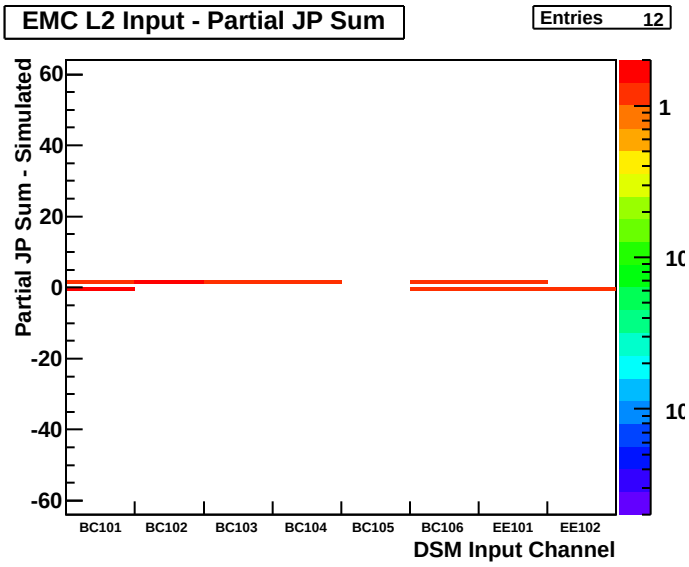

EMC L2 Input - JPY/JPB bits
Entries 253008
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
31626

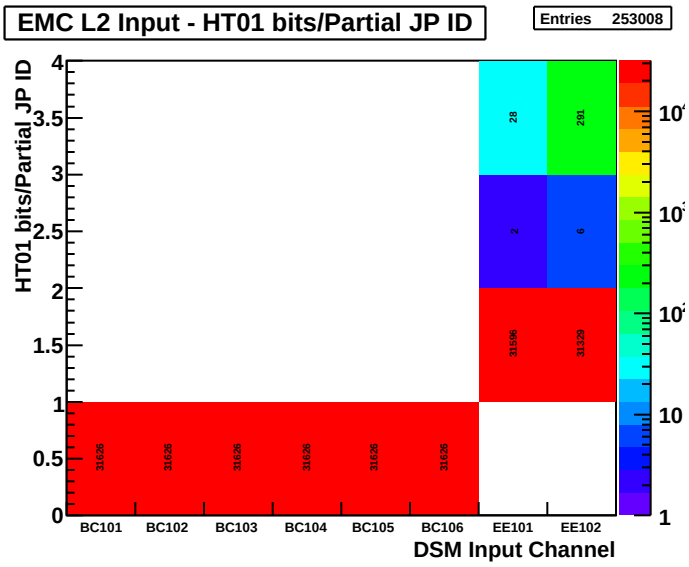

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

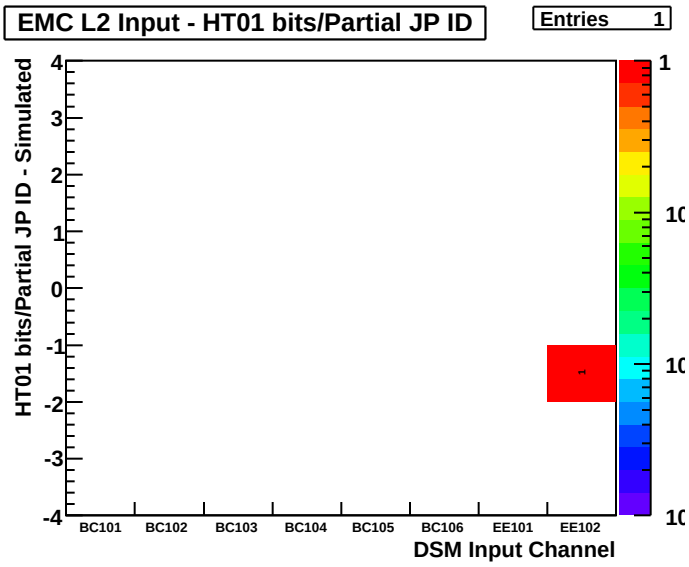

EMC L2 Input - JPZ/JPC bits
Entries 253008
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
31626

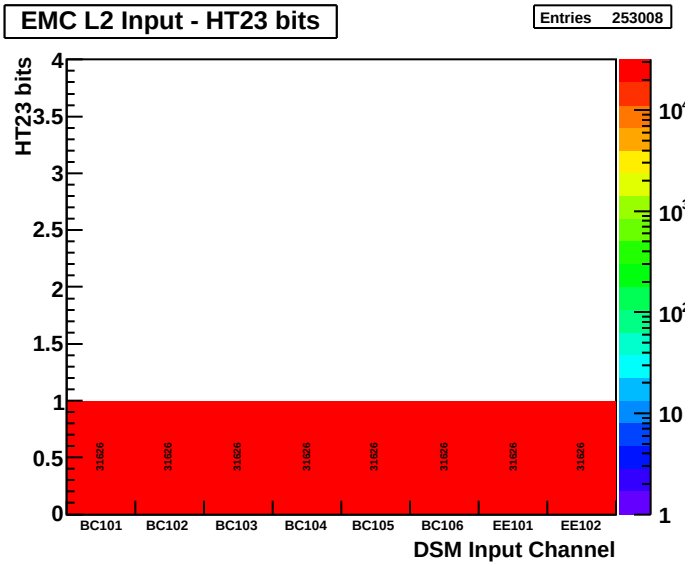

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

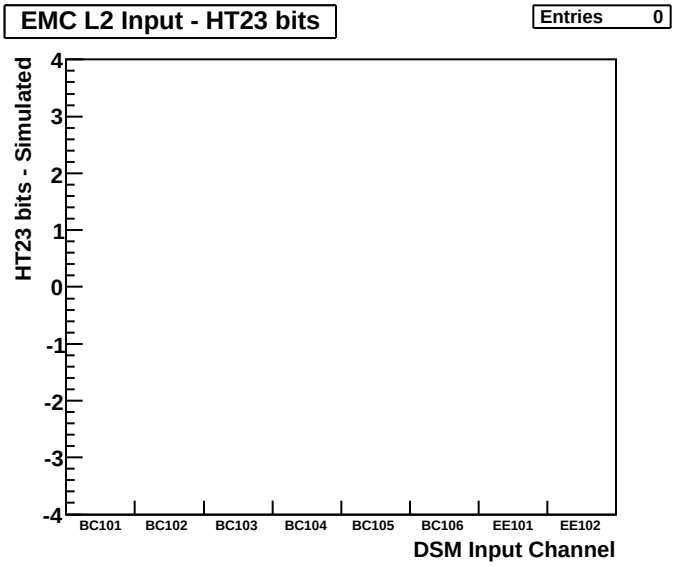

EMC L2 Input - Partial JP Sum
Entries 253008
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

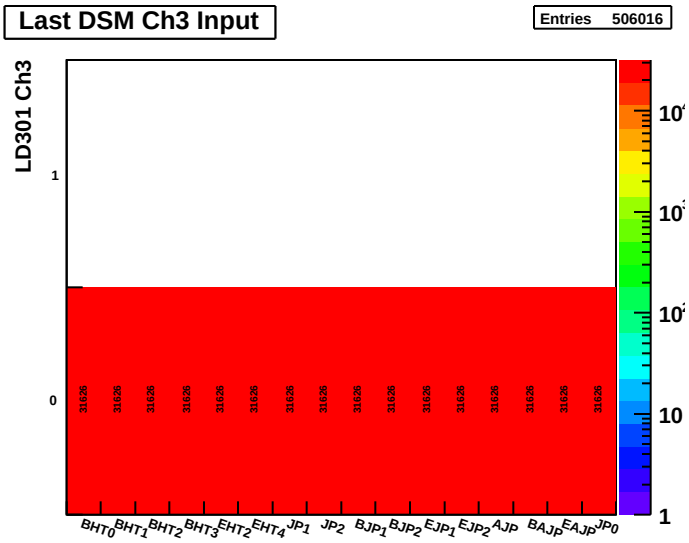

EMC L2 Input - Partial JP Sum
Entries 12
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

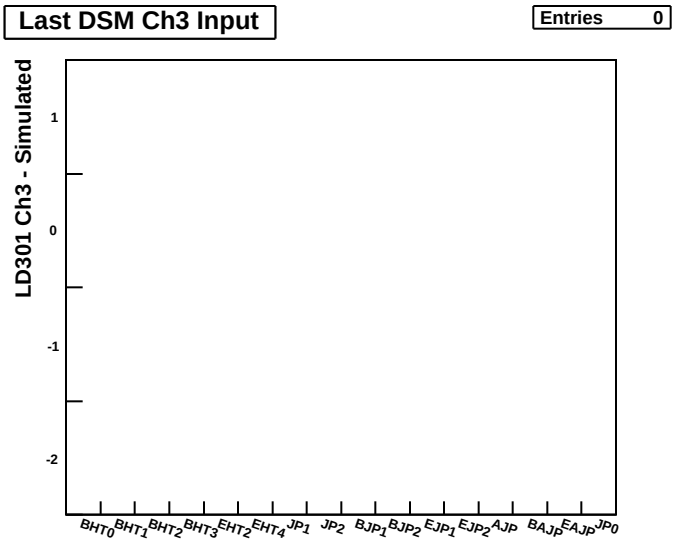

EMC L2 Input - HT01 bits/Partial JP ID
Entries 253008
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

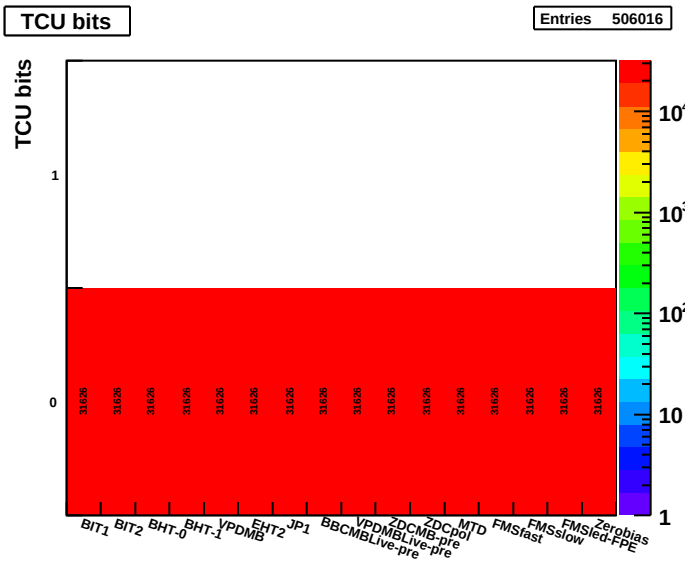

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

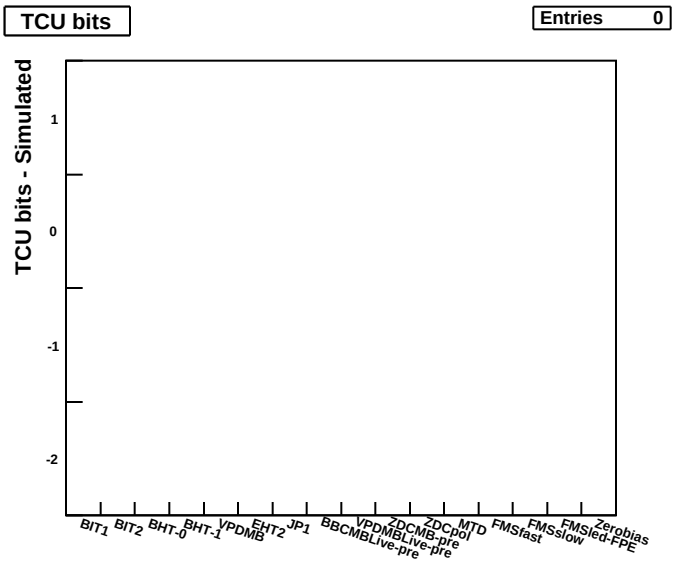

EMC L2 Input - HT23 bits
Entries 253008
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

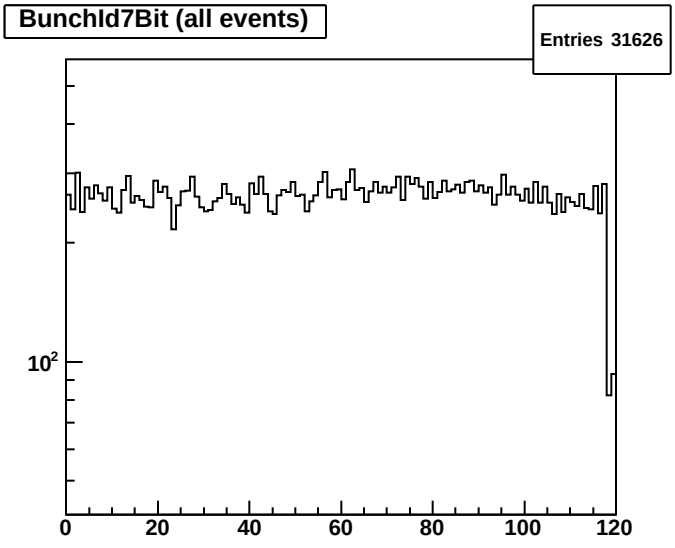

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

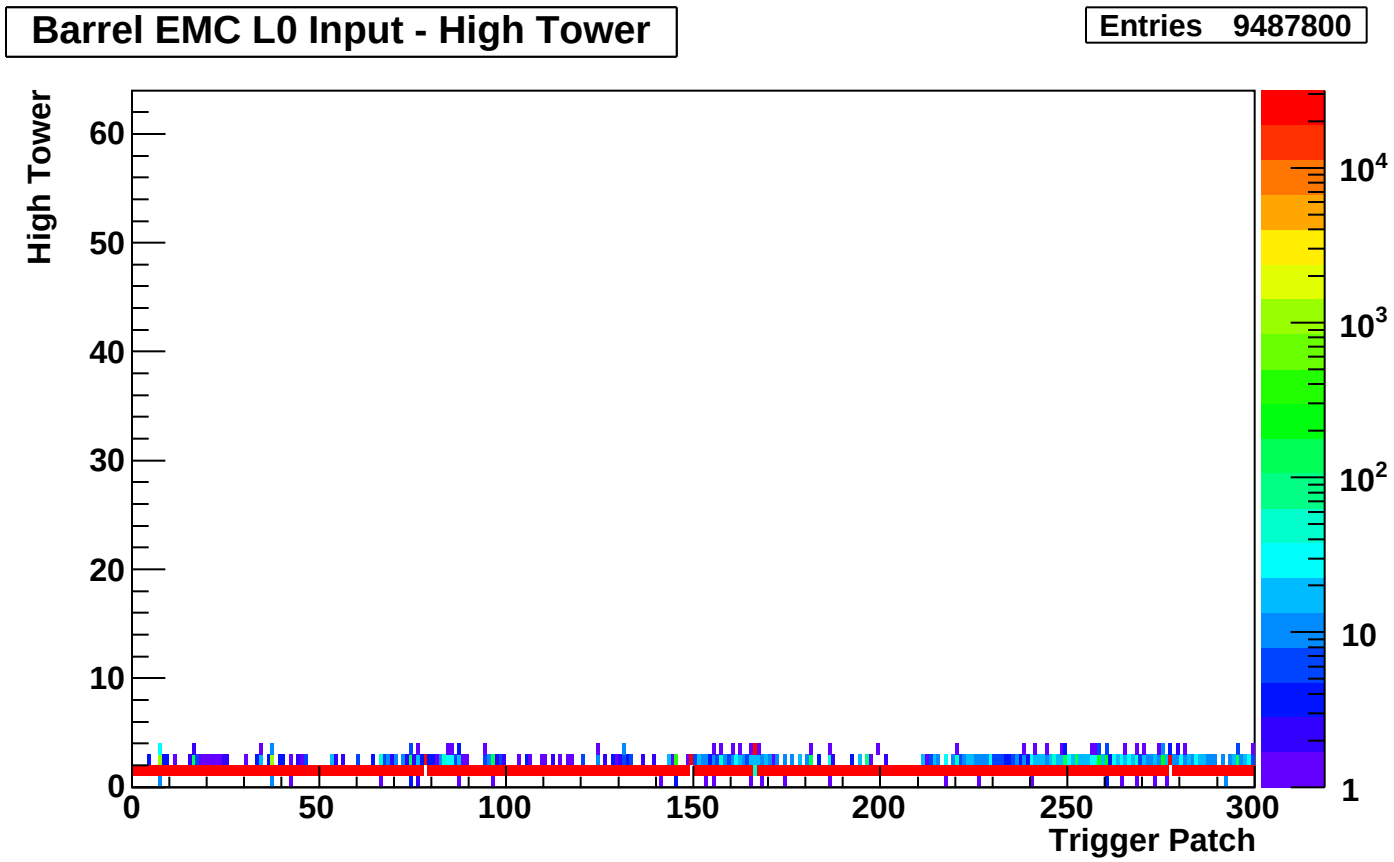

Last DSM Ch3 Input
Entries 506016
LD301 Ch3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

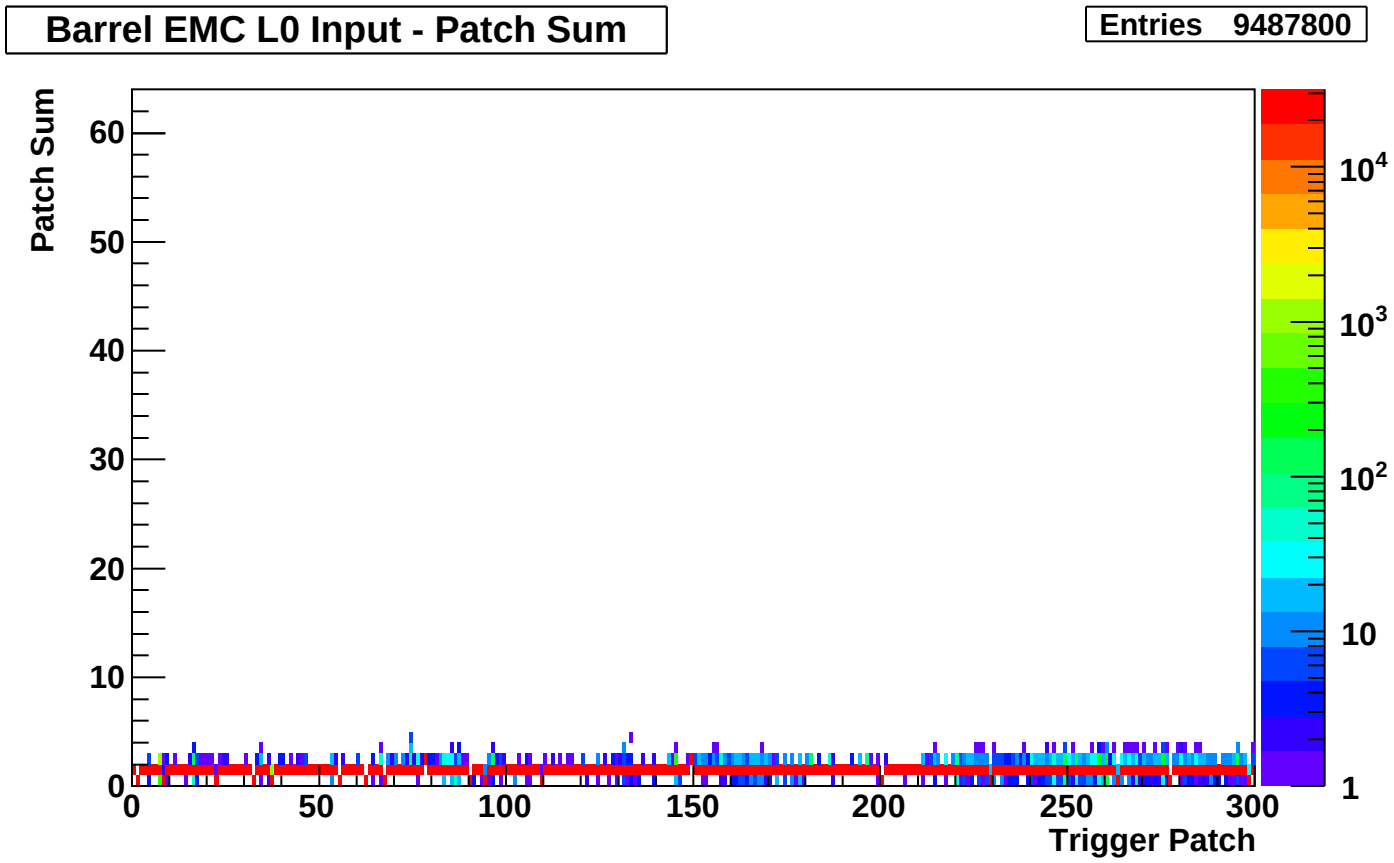

Last DSM Ch3 Input
Entries 0
LD301 Ch3 - Simulated
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

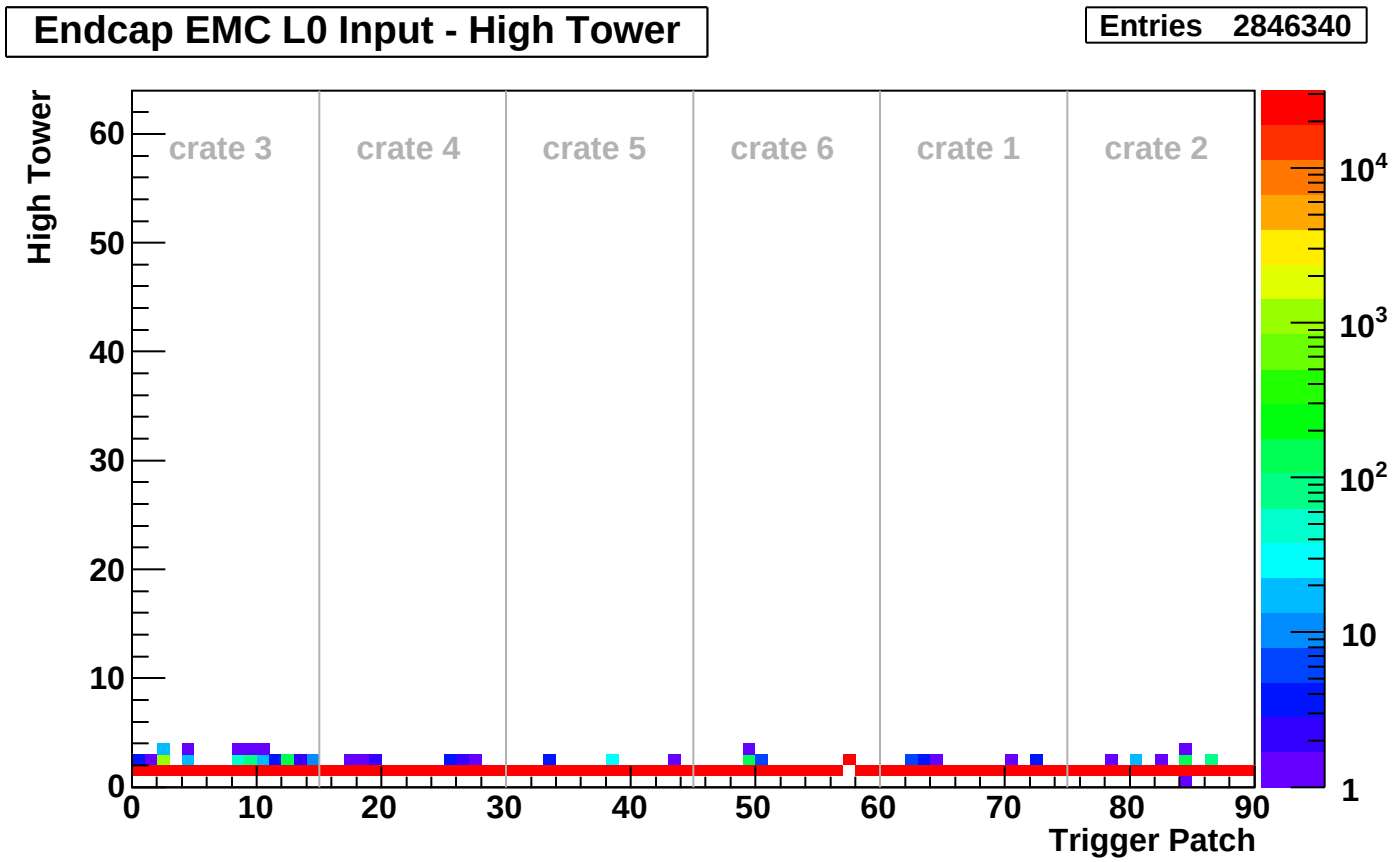

TCU bits
Entries 506016
TCU bits
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

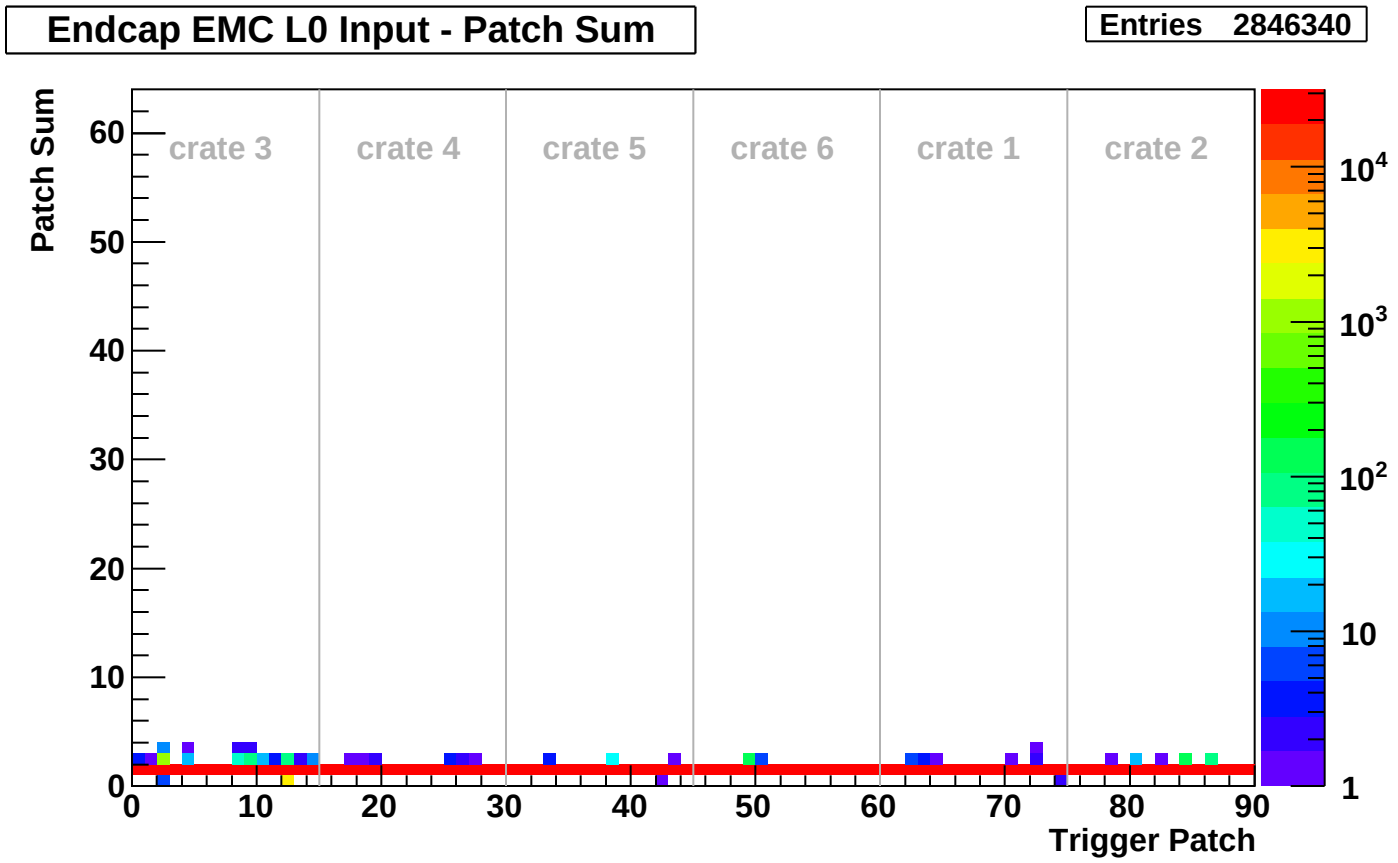

TCU bits
Entries 0
TCU bits - Simulated
BIT1 BIT2 BHT-0 BHT-1 VPDMB EHT2 JP1 BBCMBLive-pre VPDMBLive-pre ZDCMB-pre ZDCpol MTD FMSfast FMSslow FMSled-FPE Zerobias

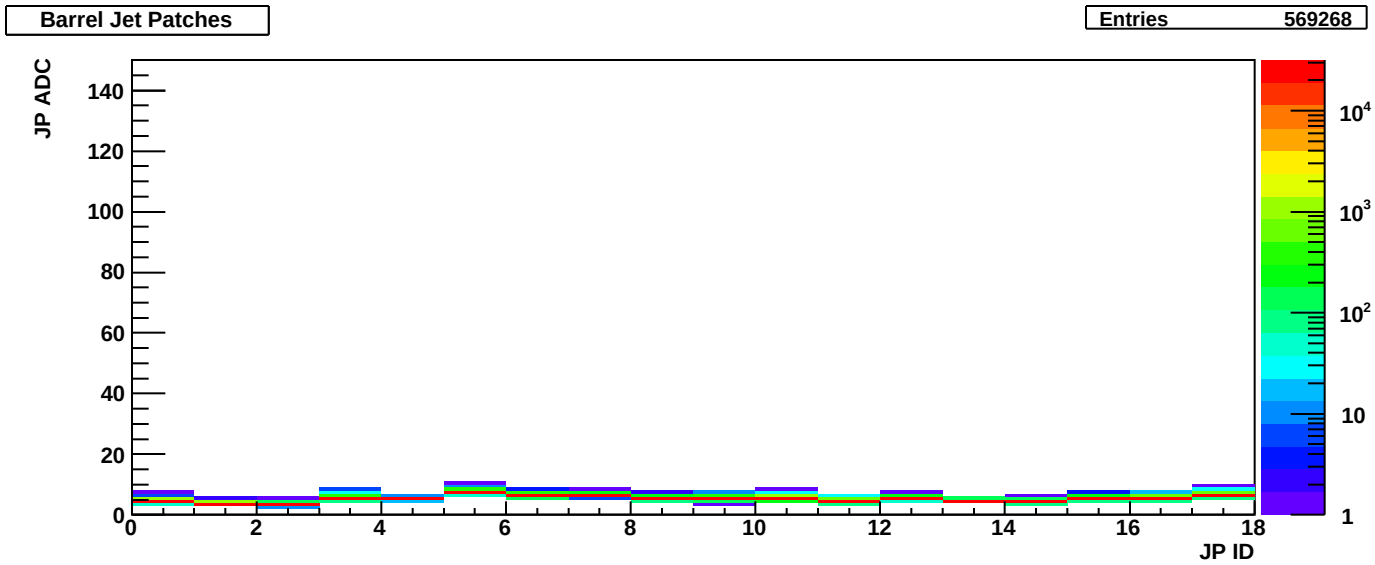

BunchId7Bit (all events)
Entries 31626
0 20 40 60 80 100 120

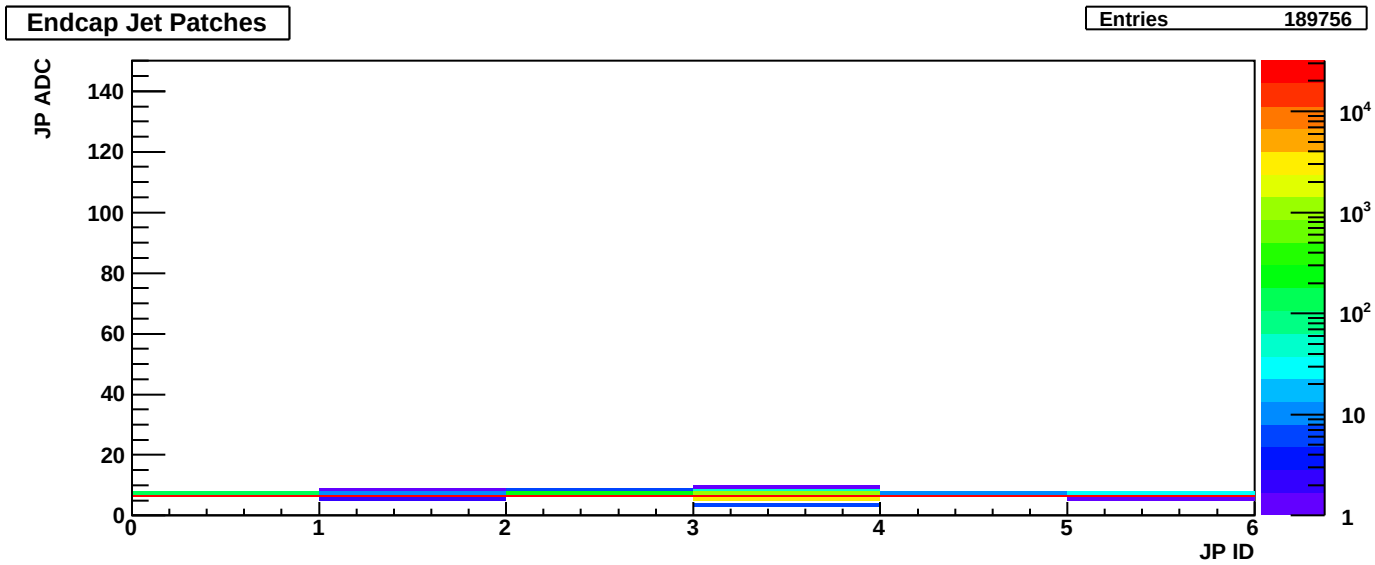

Barrel EMC L0 Input - High Tower
Entries 9487800
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

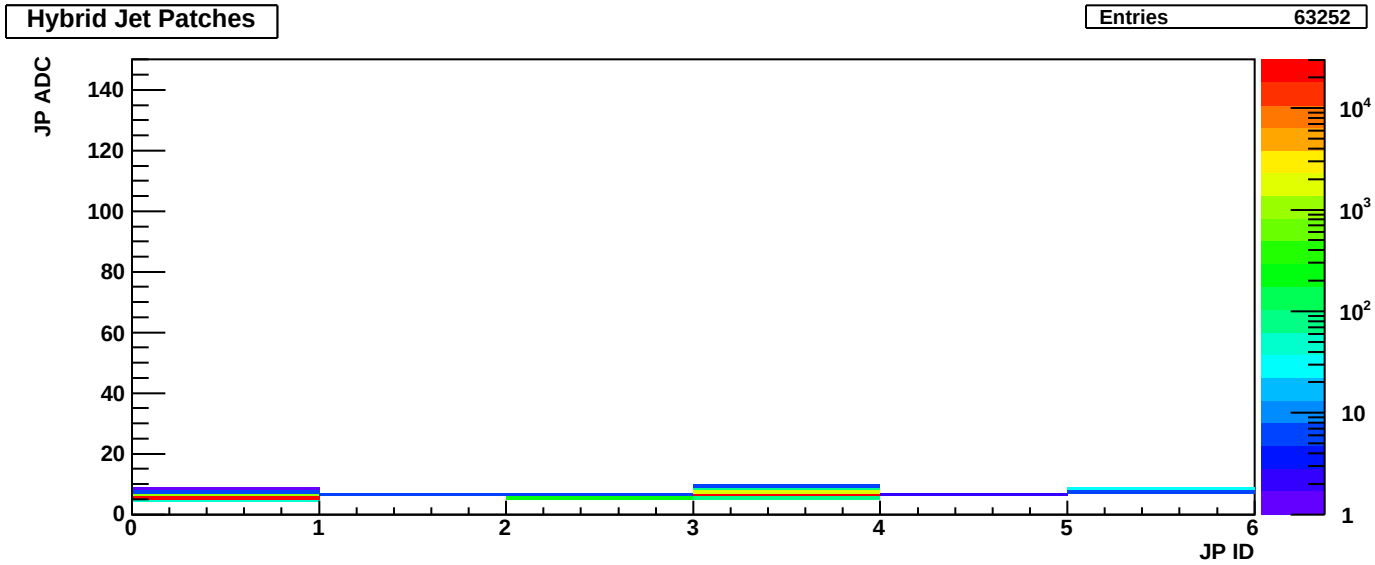

Barrel EMC L0 Input - Patch Sum
Entries 9487800
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

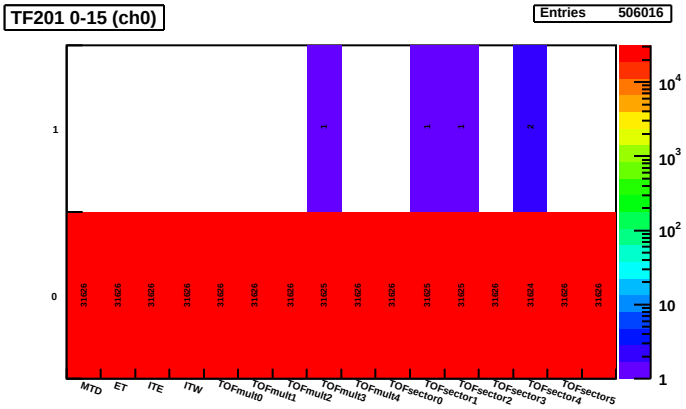

Endcap EMC L0 Input - High Tower
Entries 2846340
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

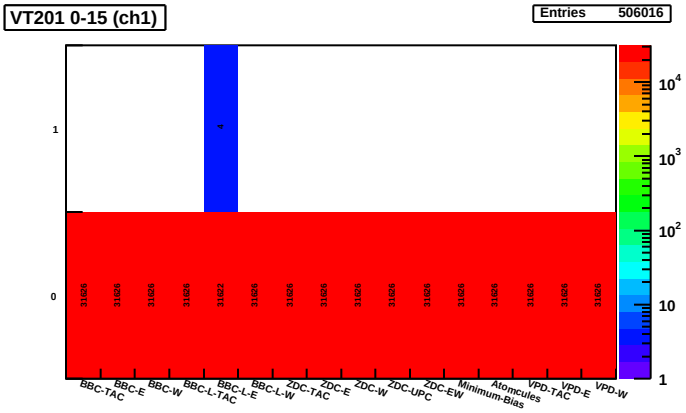

Endcap EMC L0 Input - Patch Sum
Entries 2846340
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

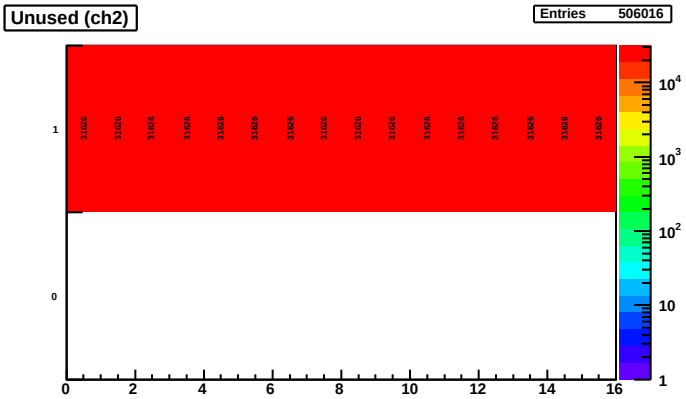

Barrel Jet Patches
Entries 569268
JP ADC
JP ID

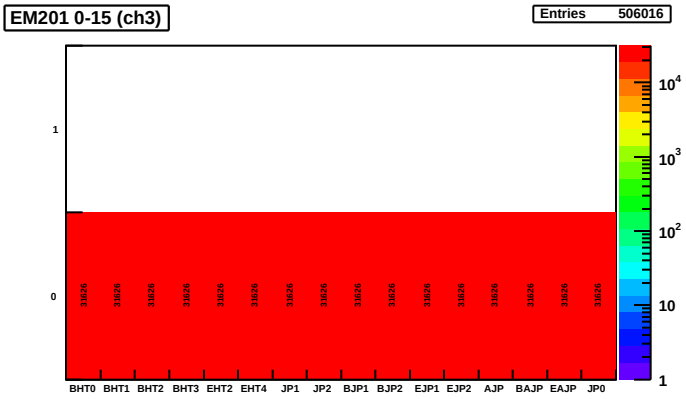

Endcap Jet Patches
Entries 189756
JP ADC
JP ID

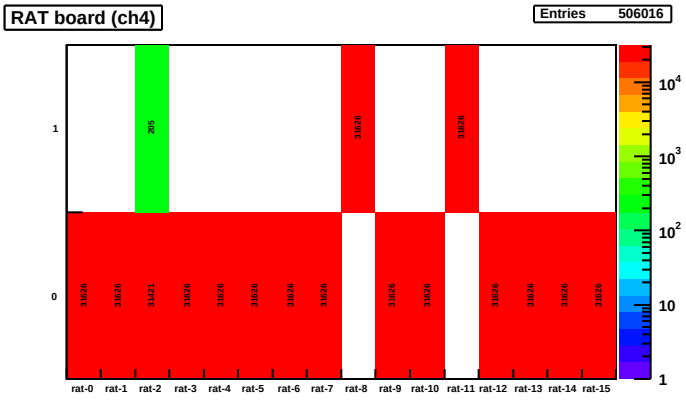

Hybrid Jet Patches
Entries 63252
JP ADC
JP ID

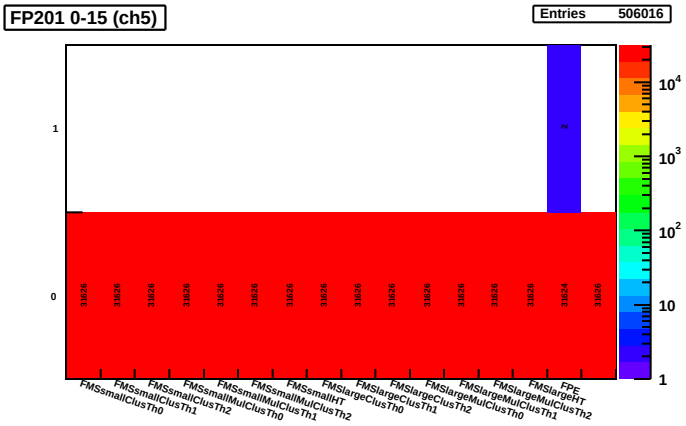

TF201 0-15 (ch0)
Entries 506016
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5

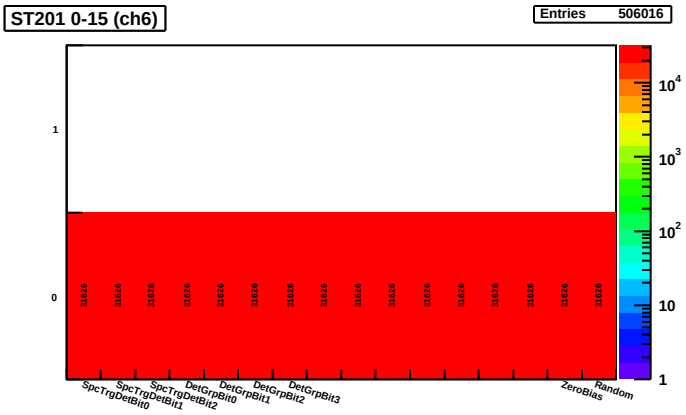

VT201 0-15 (ch1)
Entries 506016
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-UPC
ZDC-EW
Minimum-Bias
Atomcules
VPD-TAC
VPD-E
VPD-W

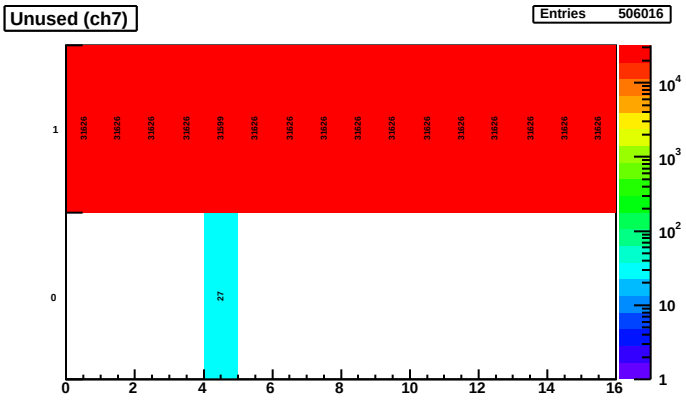

Unused (ch2)
Entries 506016

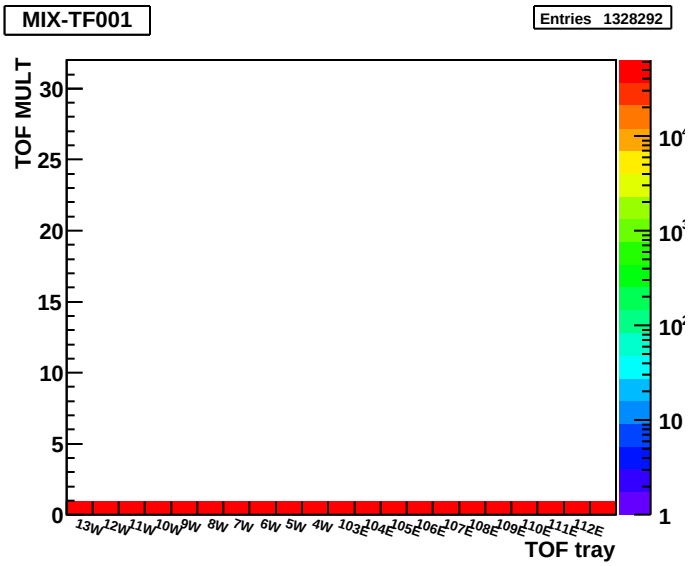

EM201 0-15 (ch3)
Entries 506016
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJP
BAJP
EAJP
JP0

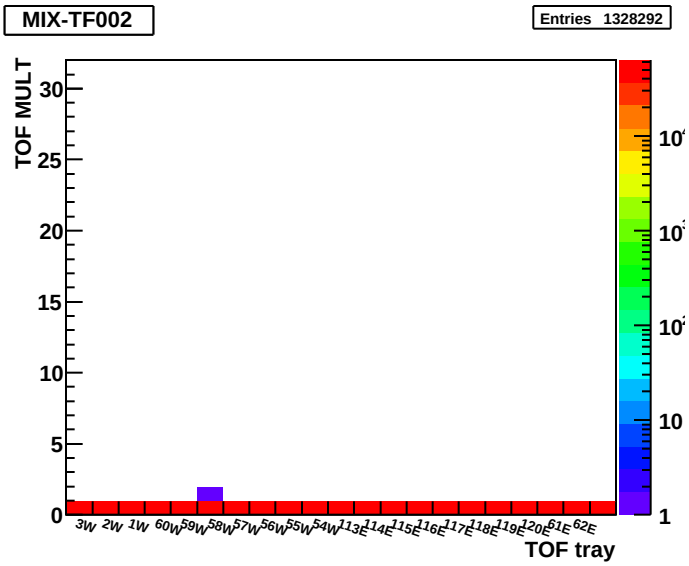

RAT board (ch4)
Entries 506016
rat-0
rat-1
rat-2
rat-3
rat-4
rat-5
rat-6
rat-7
rat-8
rat-9
rat-10
rat-11
rat-12
rat-13
rat-14
rat-15

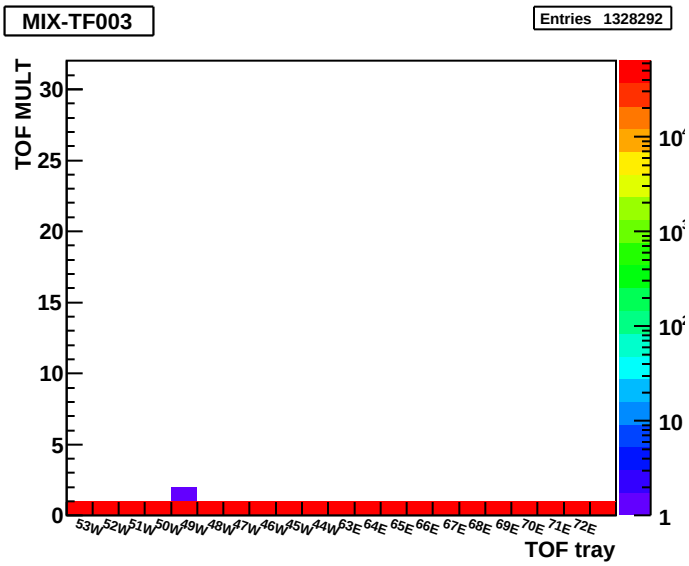

FP201 0-15 (ch5)
Entries 506016
FMSsmallClusTh0
FMSsmallClusTh1
FMSsmallClusTh2
FMSsmallMulClusTh0
FMSsmallMulClusTh1
FMSsmallMulClusTh2
FMSsmallHT
FMSlargeClusTh0
FMSlargeClusTh1
FMSlargeClusTh2
FMSlargeMulClusTh0
FMSlargeMulClusTh1
FMSlargeMulClusTh2
FMSlargeHT
FPE

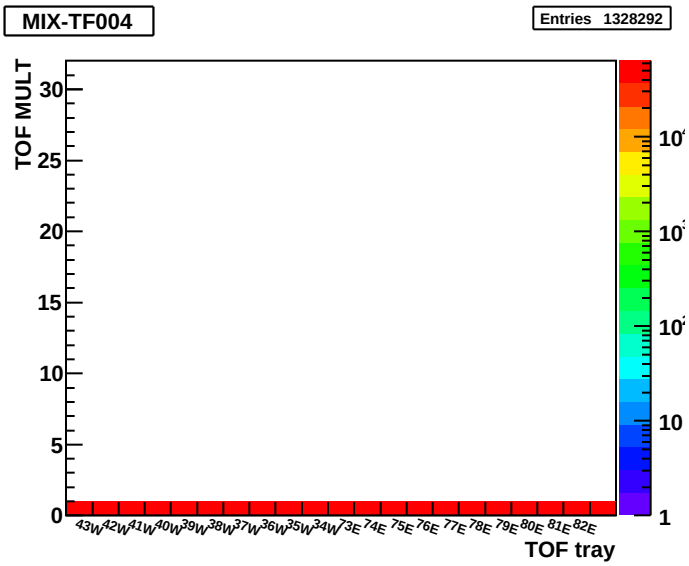

ST201 0-15 (ch6)
Entries 506016
SpcTrgDetBit0
SpcTrgDetBit1
SpcTrgDetBit2
DetGrpBit0
DetGrpBit1
DetGrpBit2
DetGrpBit3
ZeroBias
Random

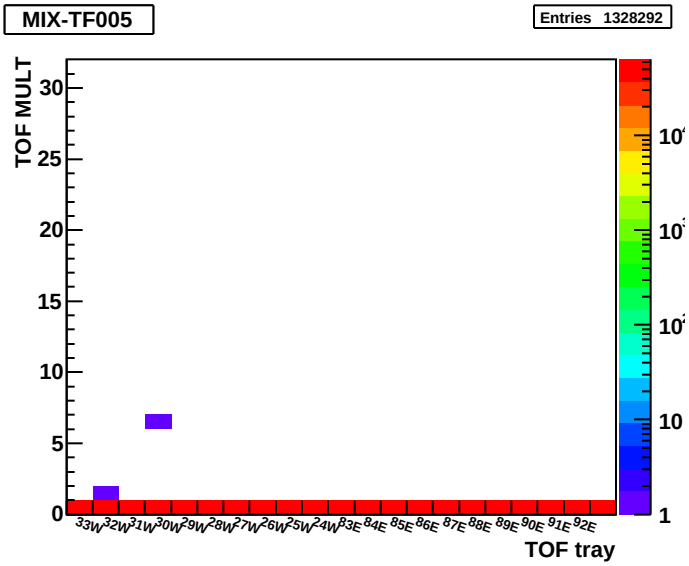

Unused (ch7)
Entries 506016

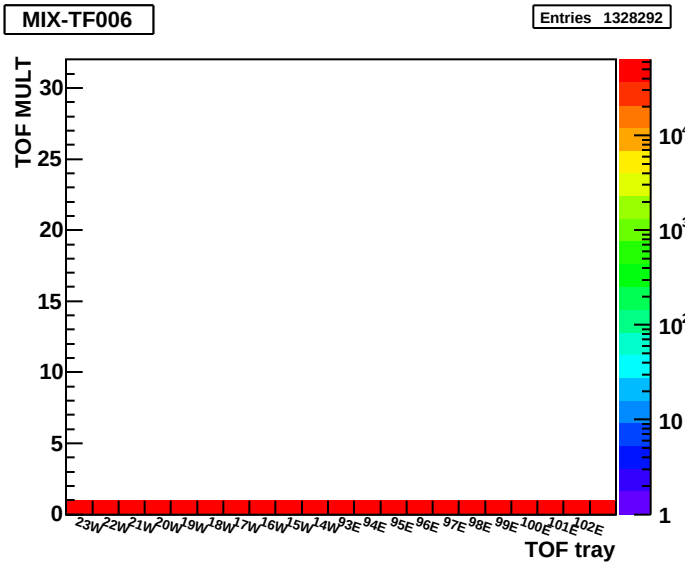

MIX-TF001
Entries 1328292
TOF MULT
TOF tray

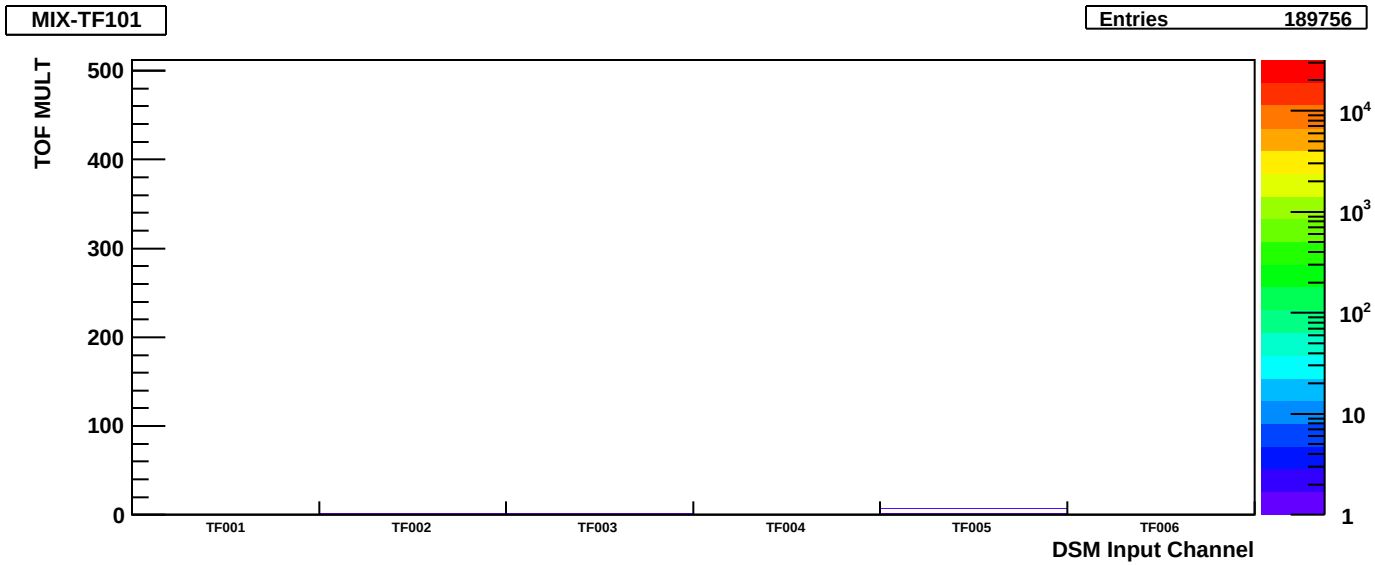

MIX-TF002
Entries 1328292
TOF MULT
TOF tray

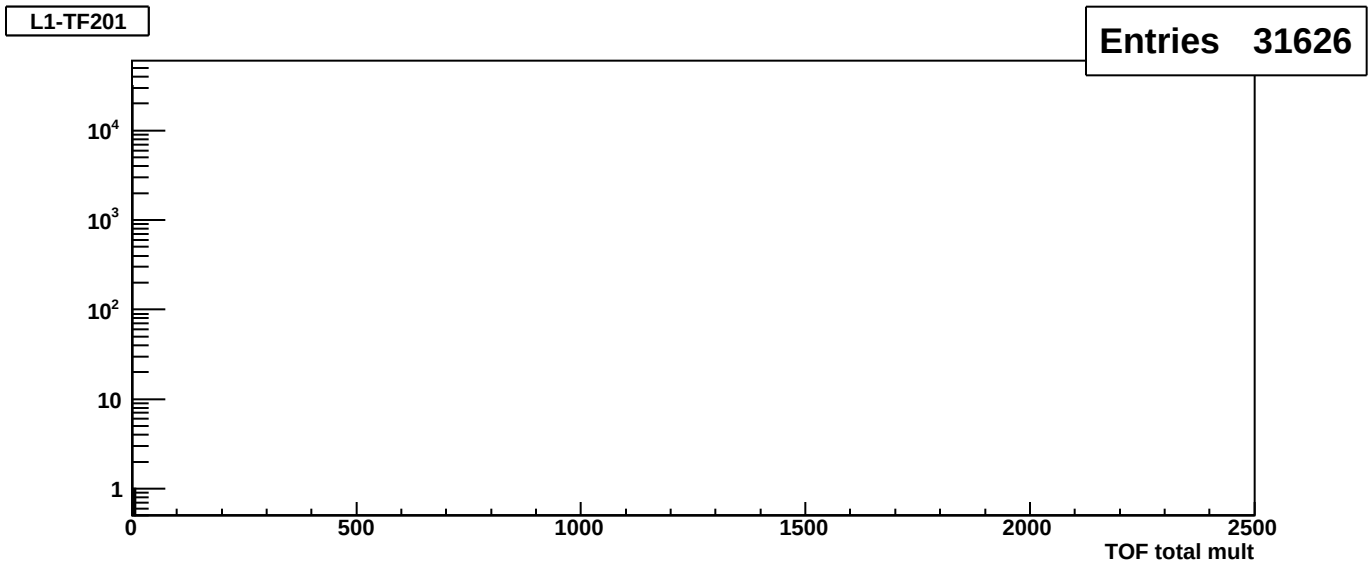

MIX-TF003
Entries 1328292
TOF MULT
TOF tray

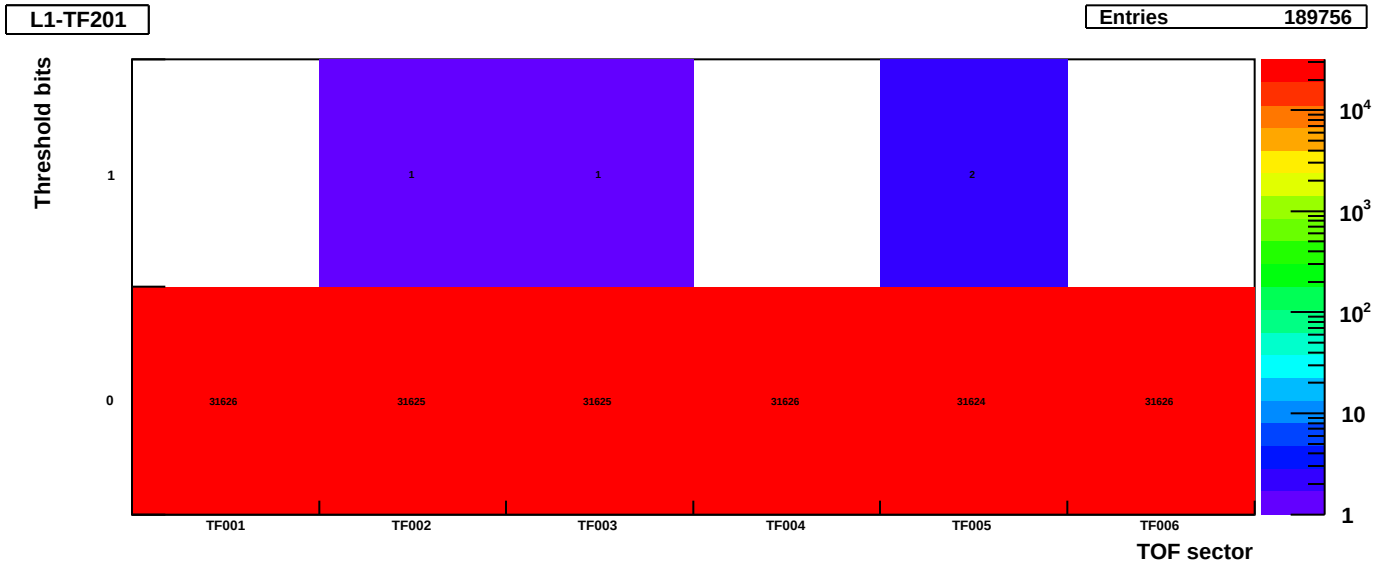

MIX-TF004
Entries 1328292
TOF MULT
TOF tray

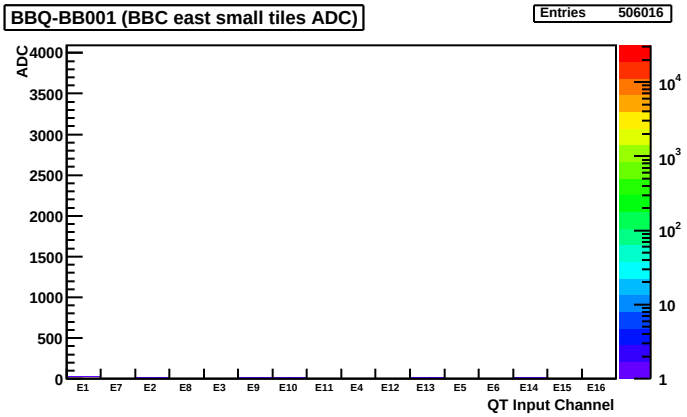

MIX-TF005
Entries 1328292
TOF MULT
TOF tray

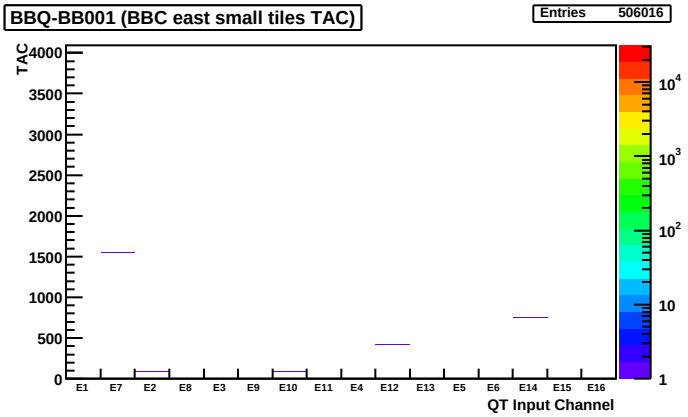

MIX-TF006
Entries 1328292
TOF MULT
TOF tray

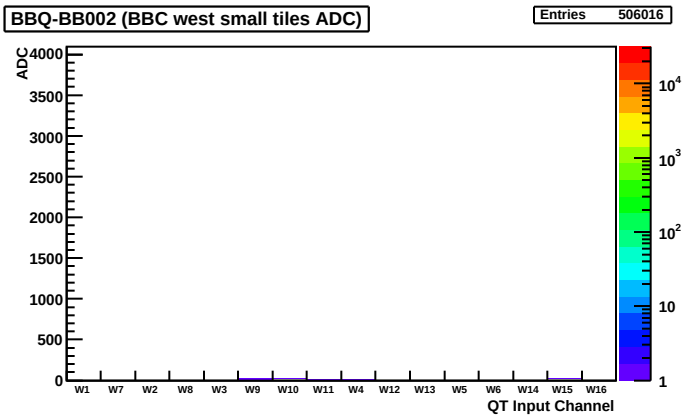

MIX-TF101
Entries 189756
TOF MULT
500
400
300
200
100
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

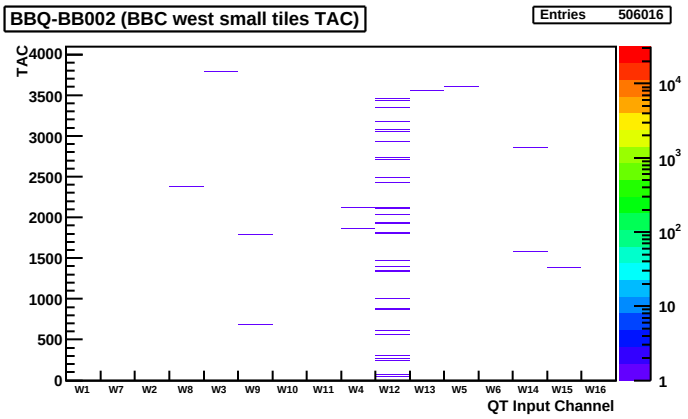

L1-TF201
Entries 31626
10^4
10^3
10^2
10
1
0
500
1000
1500
2000
2500
TOF total mult

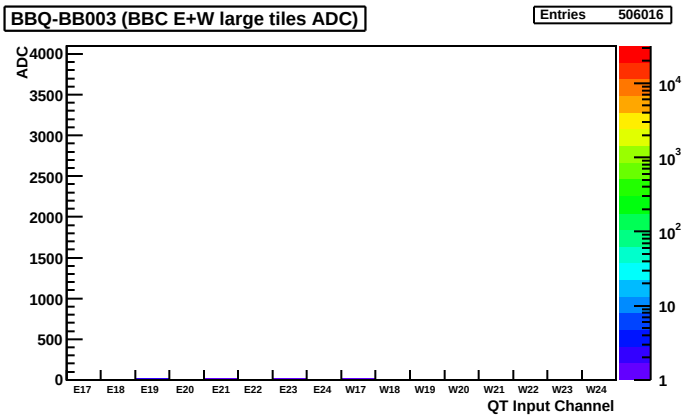

L1-TF201
Entries 189756
Threshold bits
1
0
1
1
2
31626
31625
31625
31626
31624
31626
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4
10^3
10^2
10
1

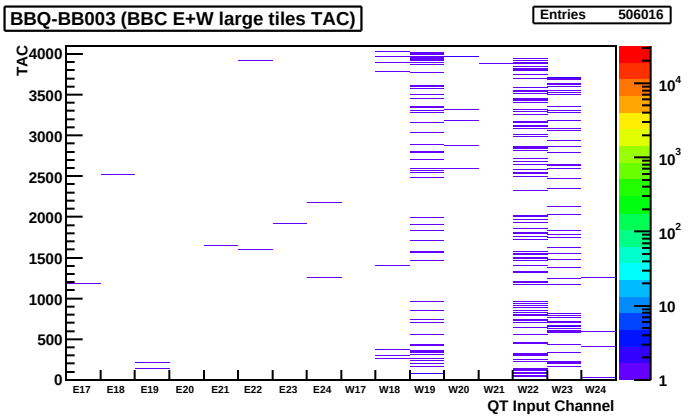

BBQ-BB001 (BBC east small tiles ADC)
Entries 506016
ADC
QT Input Channel

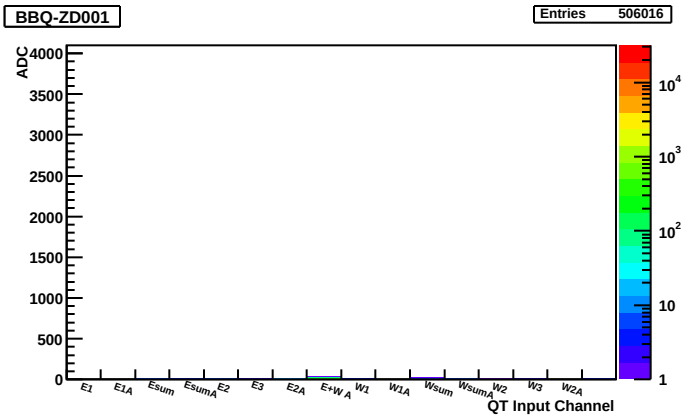

BBQ-BB001 (BBC east small tiles TAC)
Entries 506016
TAC
QT Input Channel

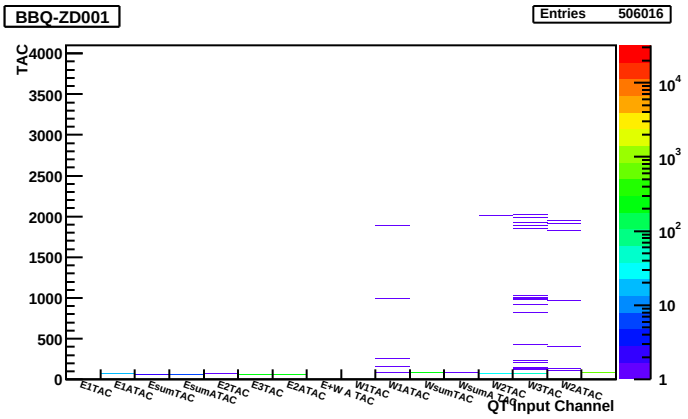

BBQ-BB002 (BBC west small tiles ADC)
Entries 506016
ADC
QT Input Channel

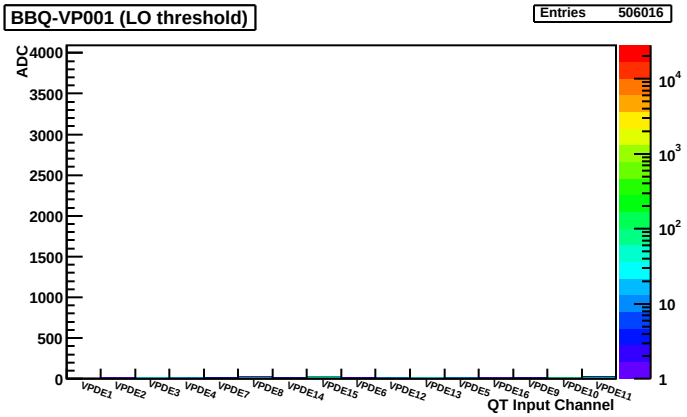

BBQ-BB002 (BBC west small tiles TAC)
Entries 506016
TAC
QT Input Channel

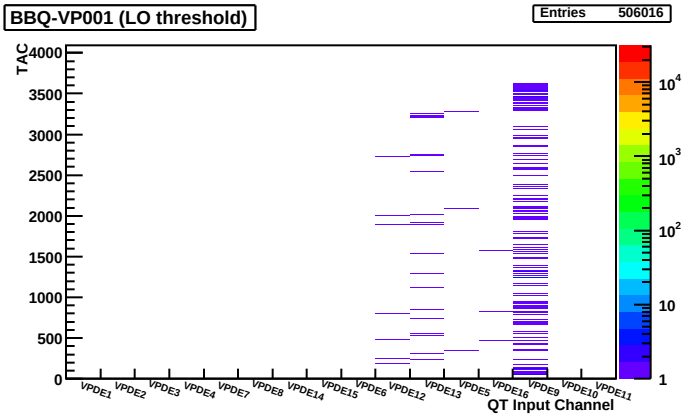

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 506016
ADC
QT Input Channel

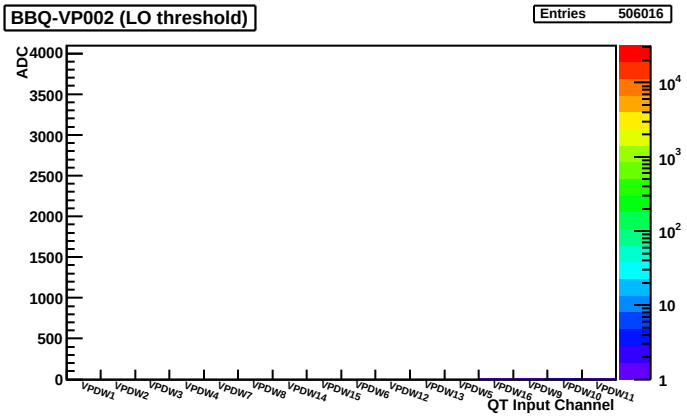

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 506016
TAC
QT Input Channel

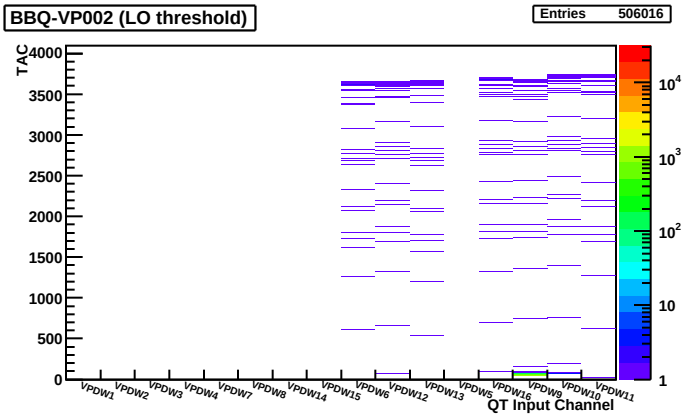

BBQ-ZD001
Entries 506016
ADC
QT Input Channel

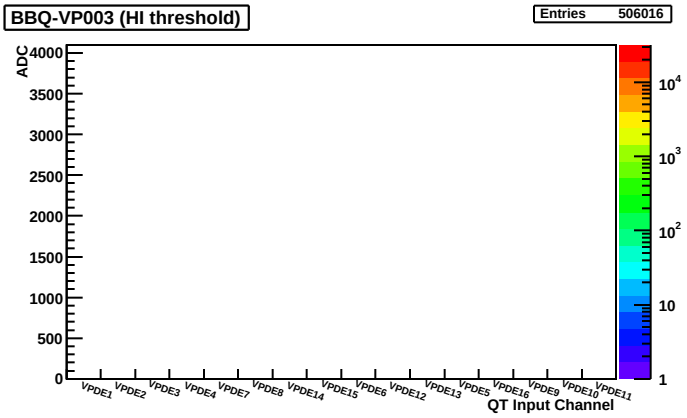

BBQ-ZD001
Entries 506016
TAC
QT Input Channel

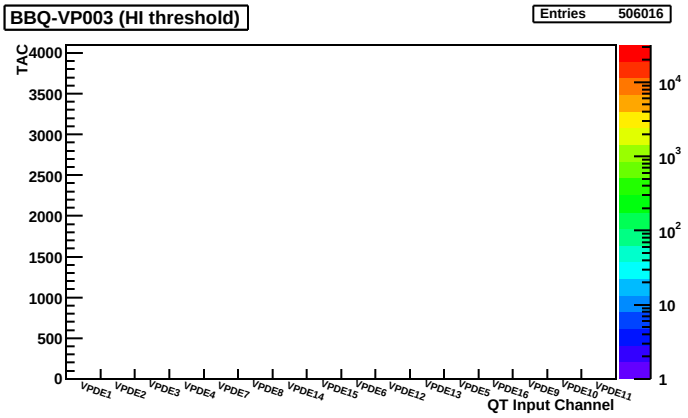

BBQ-VP001 (LO threshold)
Entries 506016
ADC
QT Input Channel

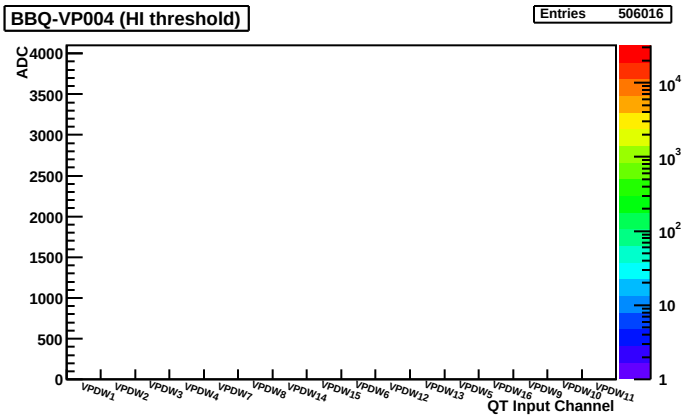

BBQ-VP001 (LO threshold)
Entries 506016
TAC
QT Input Channel

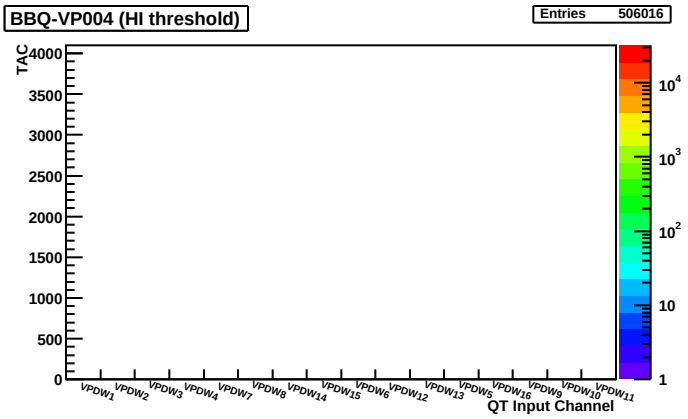

BBQ-VP002 (LO threshold)
Entries 506016
ADC
QT Input Channel

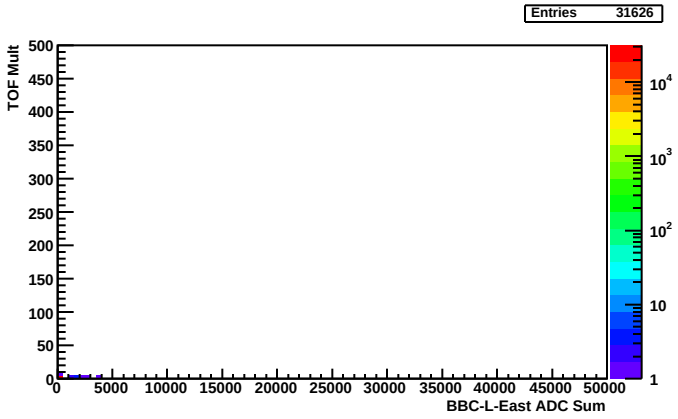

BBQ-VP002 (LO threshold)
Entries 506016
TAC
QT Input Channel

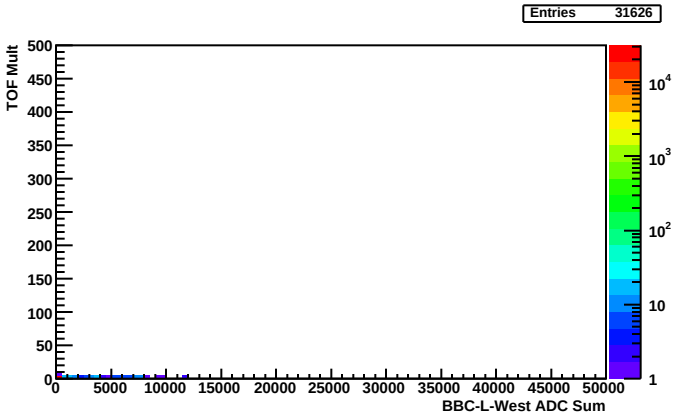

BBQ-VP003 (HI threshold)
Entries 506016
ADC
QT Input Channel

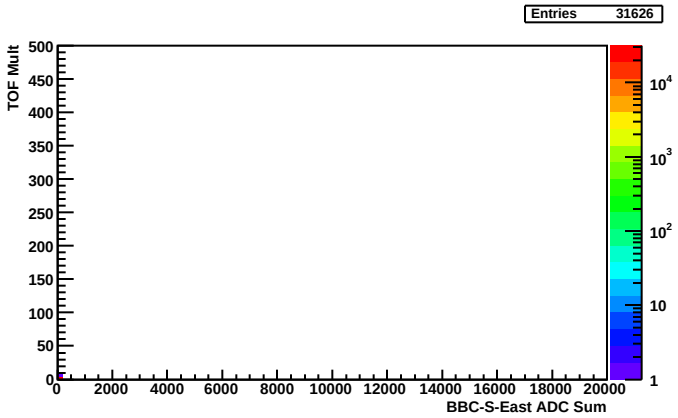

BBQ-VP003 (HI threshold)
Entries 506016
TAC
QT Input Channel

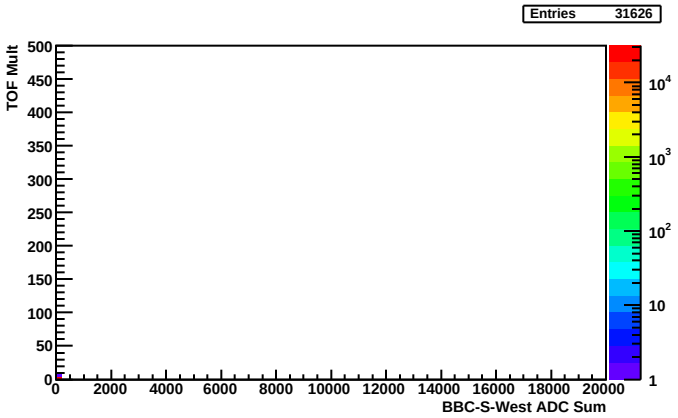

BBQ-VP004 (HI threshold)
Entries 506016
ADC
QT Input Channel

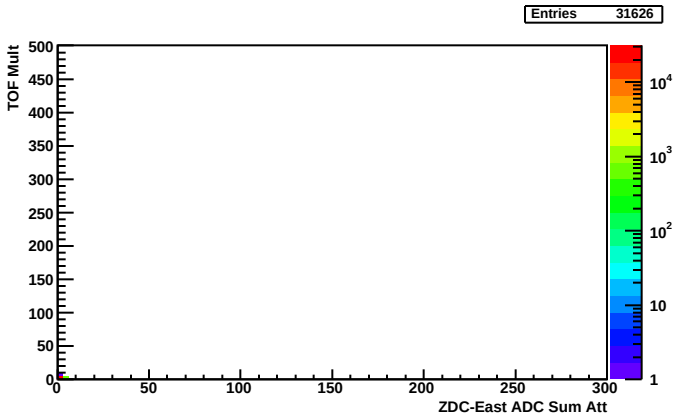

BBQ-VP004 (HI threshold)
Entries 506016
TAC
QT Input Channel

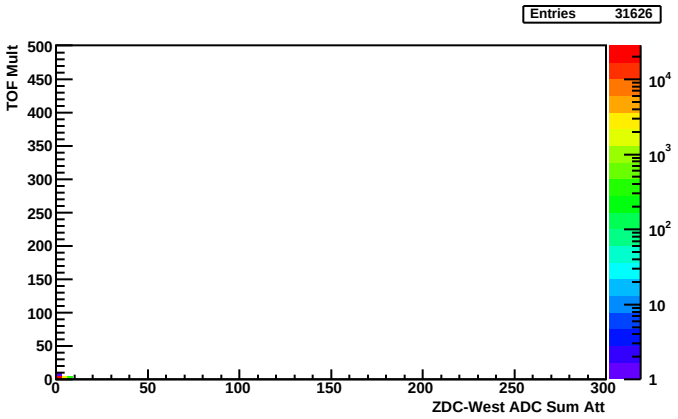

Entries 31626
TOF Mult
BBC-L-East ADC Sum

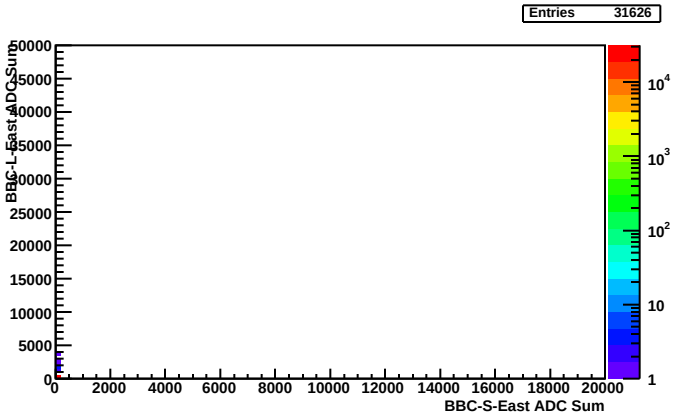

Entries 31626
TOF Mult
BBC-L-West ADC Sum

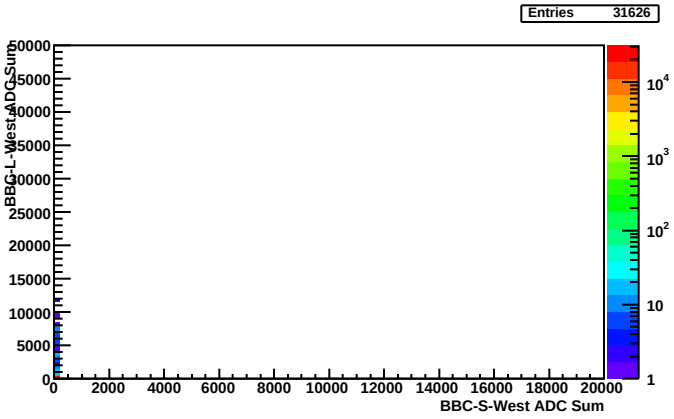

Entries 31626
TOF Mult
BBC-S-East ADC Sum

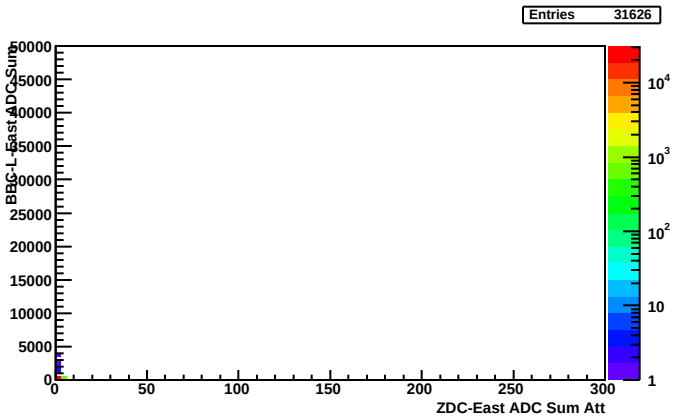

Entries 31626
TOF Mult
BBC-S-West ADC Sum

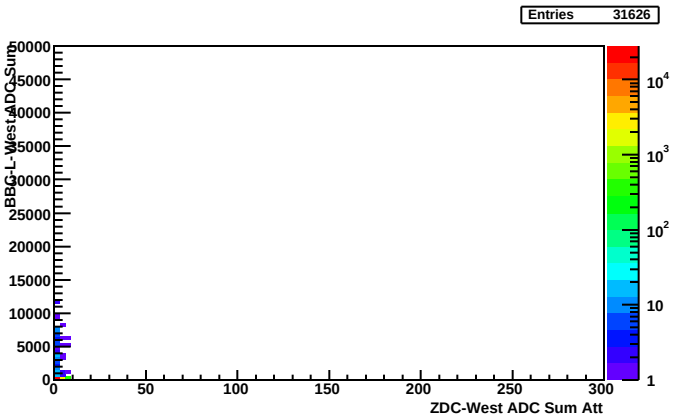

Entries 31626
TOF Mult
ZDC-East ADC Sum Att

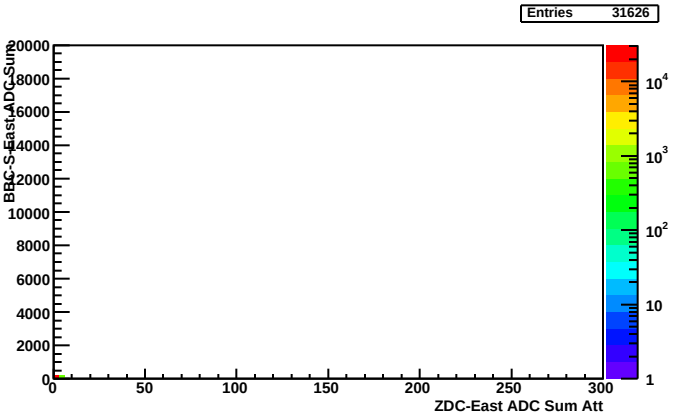

Entries 31626
TOF Mult
ZDC-West ADC Sum Att

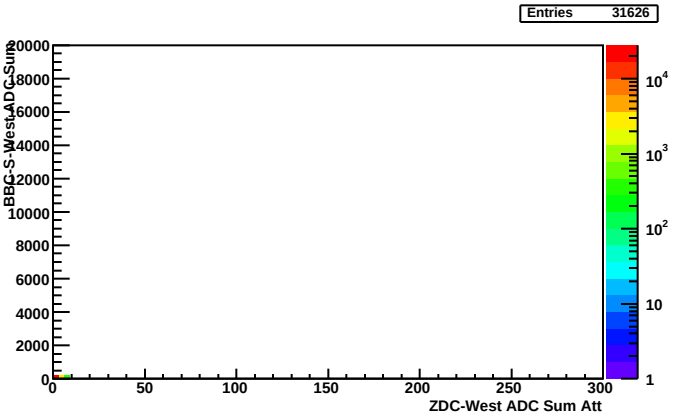

Entries 31626
BBC-L-East ADC Sum
BBC-S-East ADC Sum

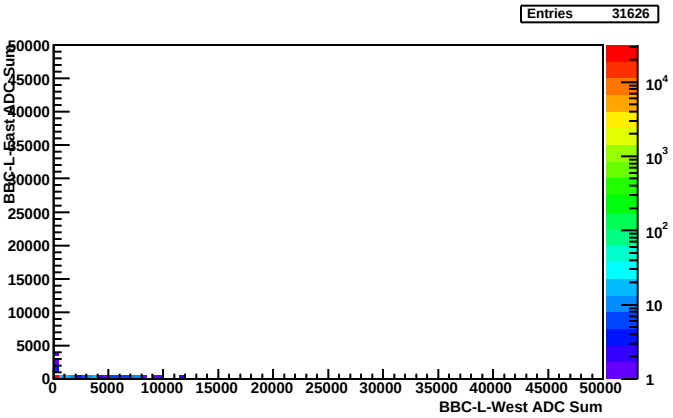

Entries 31626
BBC-L-West ADC Sum
BBC-S-West ADC Sum

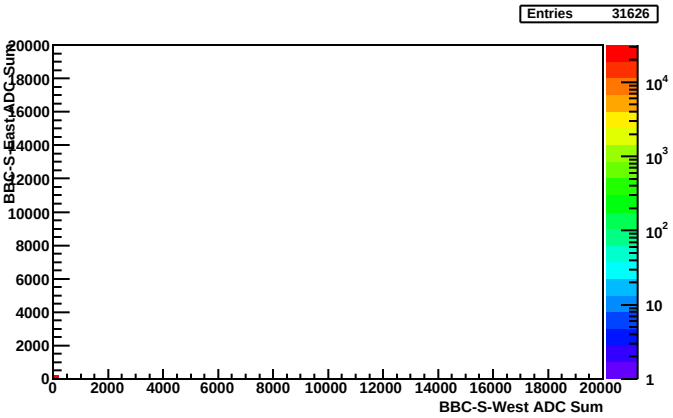

Entries 31626
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

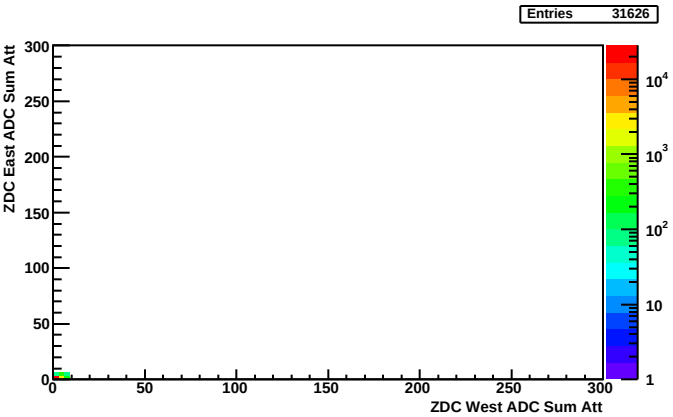

Entries 31626
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

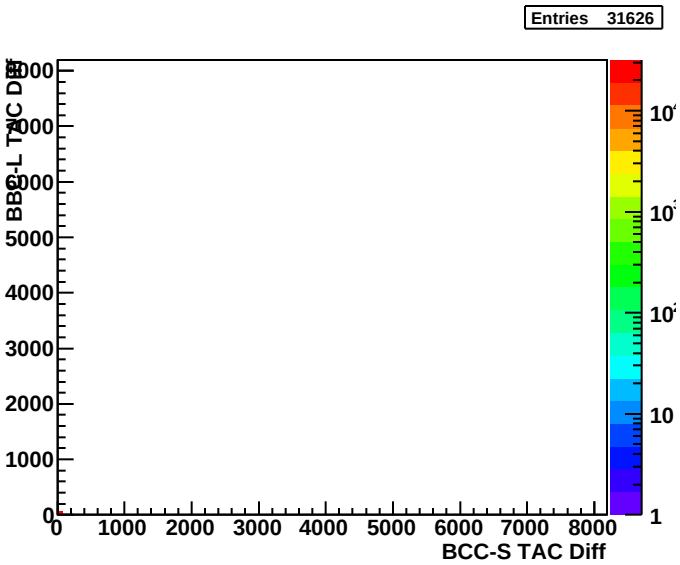

Entries 31626
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

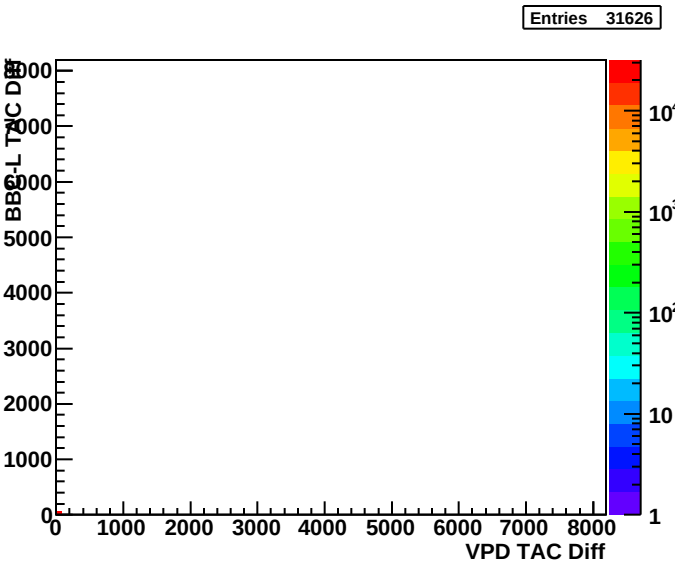

Entries 31626
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

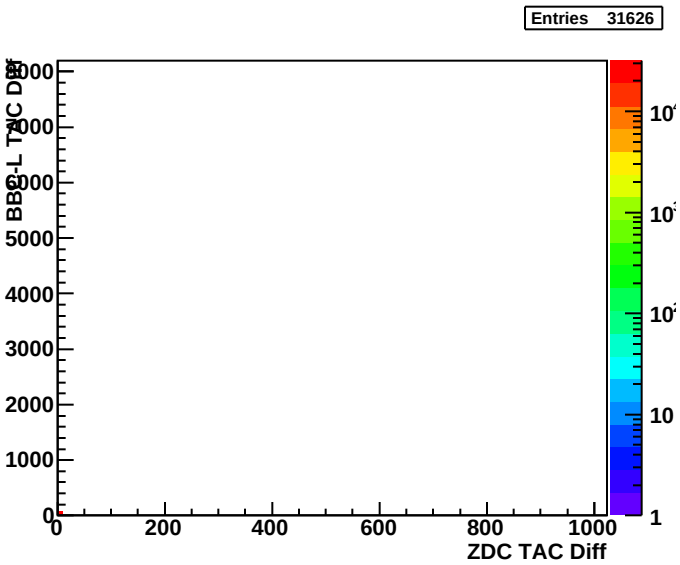

Entries 31626
BBC-L-East ADC Sum
BBC-L-West ADC Sum

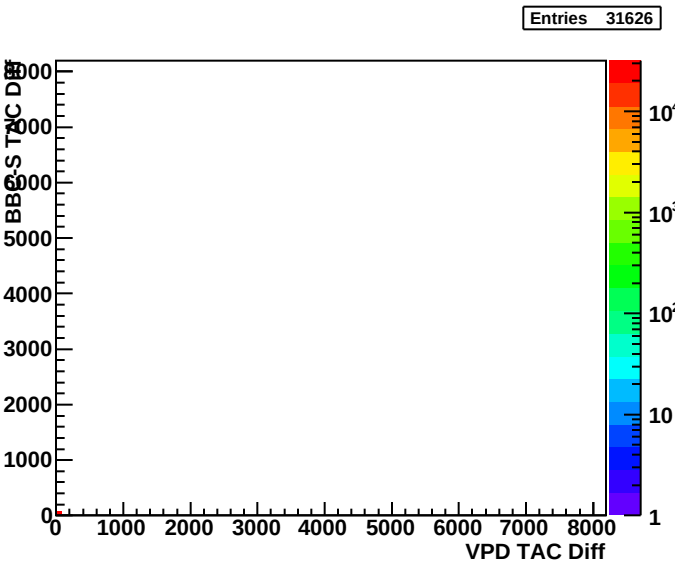

Entries 31626
BBC-S-East ADC Sum
BBC-S-West ADC Sum

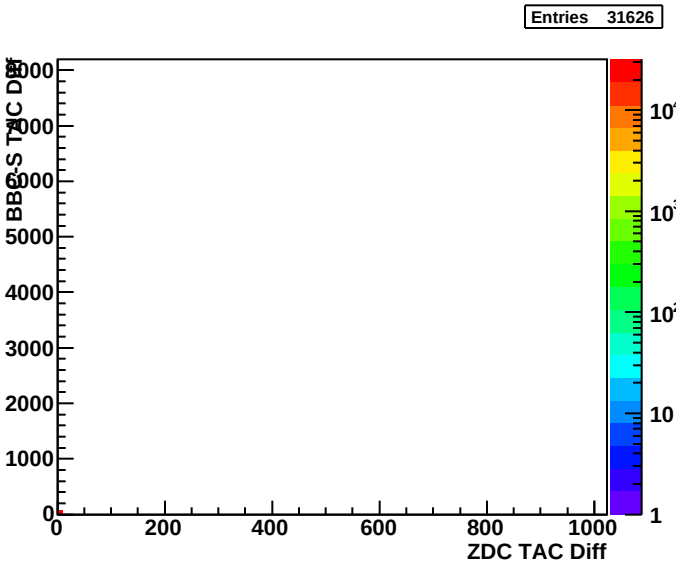

Entries 31626
ZDC East ADC Sum Att
ZDC West ADC Sum Att

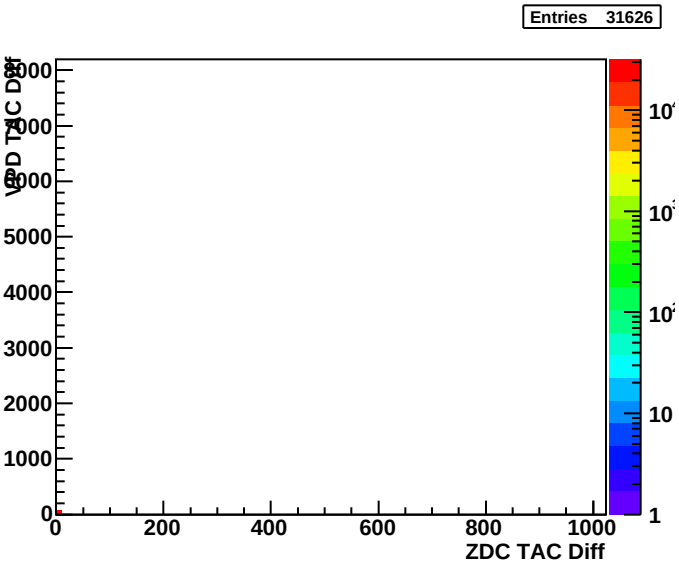

Entries 31626
BBC-L TAC Diff
BCC-S TAC Diff

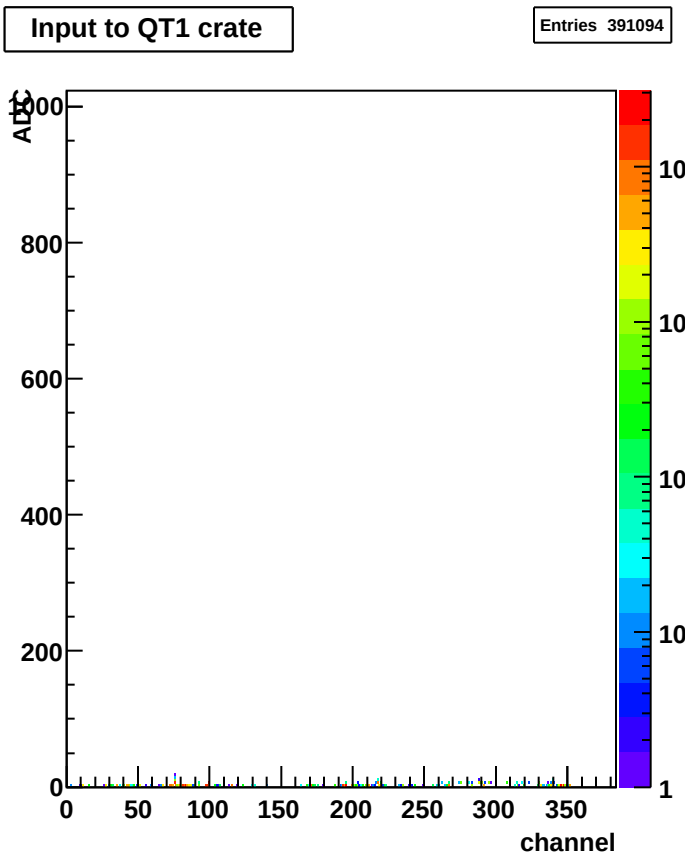

Entries 31626
BBC-L TAC Diff
VPD TAC Diff

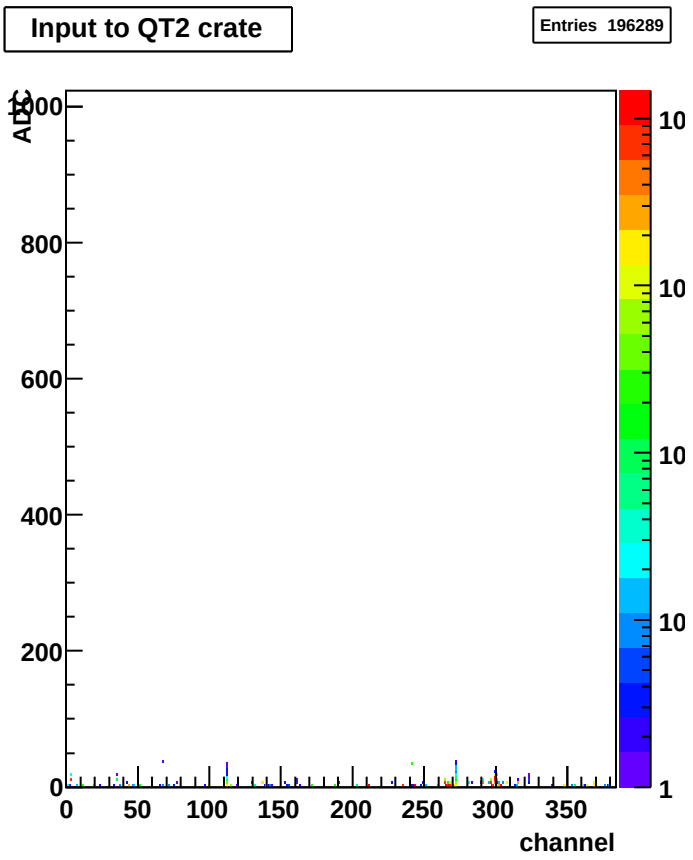

Entries 31626
BBC-L TAC Diff
ZDC TAC Diff

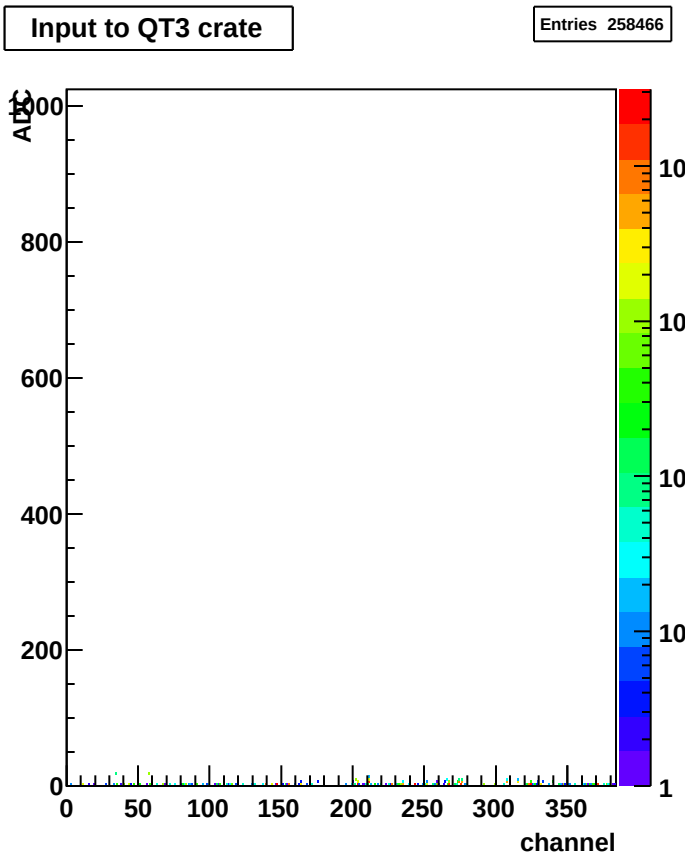

Entries 31626
BBC-S TAC Diff
VPD TAC Diff

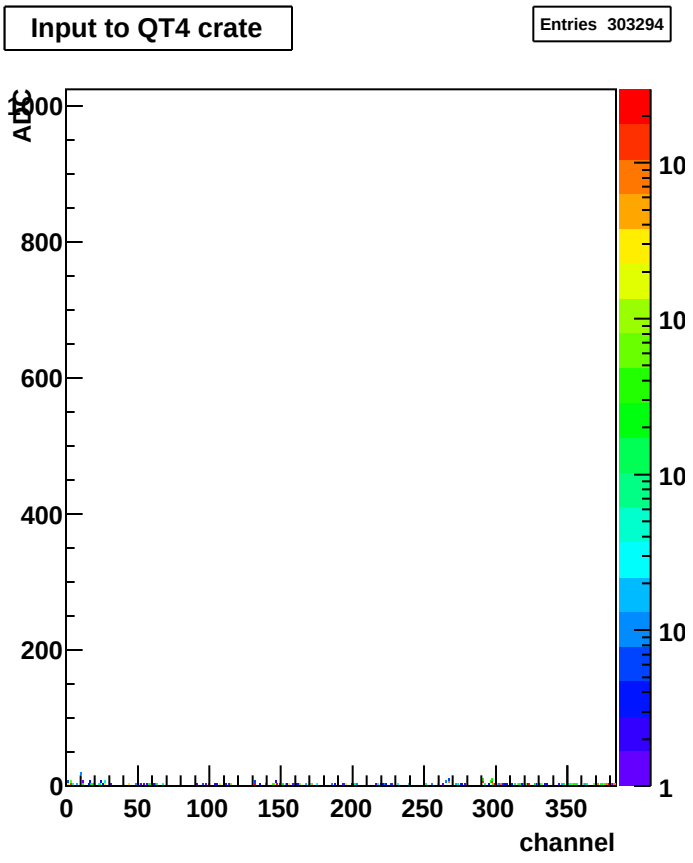

Entries 31626
BBC-S TAC Diff
ZDC TAC Diff

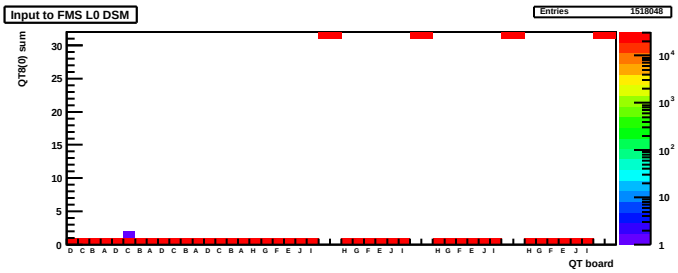

Entries 31626
VPD TAC Diff
ZDC TAC Diff

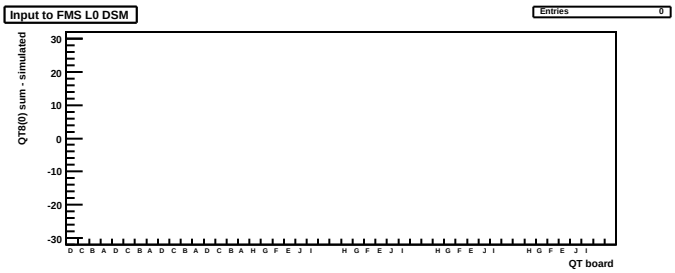

Input to QT1 crate
Entries 391094
ADC
channel

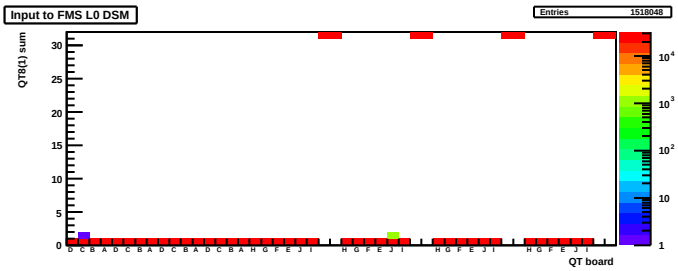

Input to QT2 crate
Entries 196289
ADC
channel

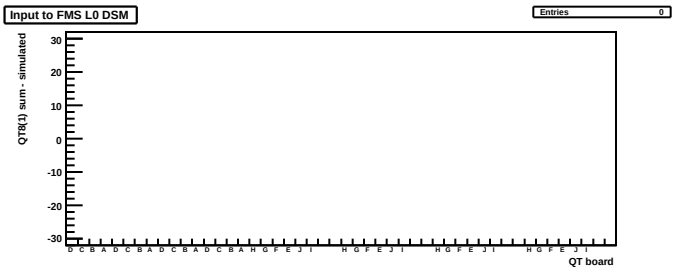

Input to QT3 crate
Entries 258466
ADC
channel

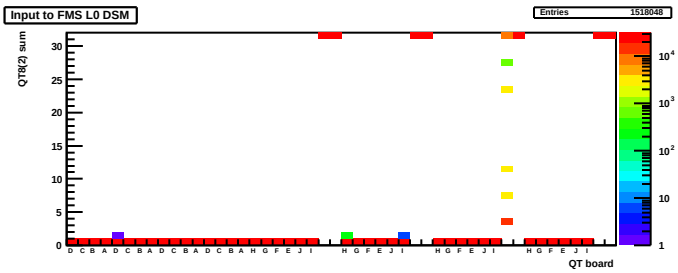

Input to QT4 crate
Entries 303294
ADC
channel

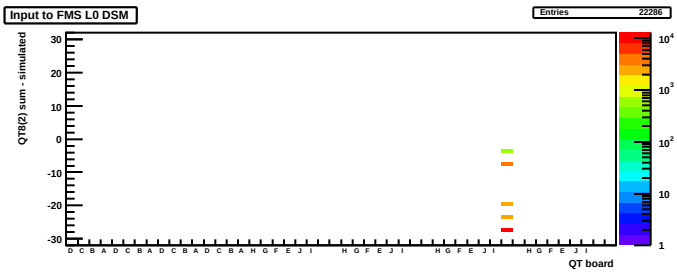

Input to FMS L0 DSM
Entries 1518048
QT8(0) sum
QT board

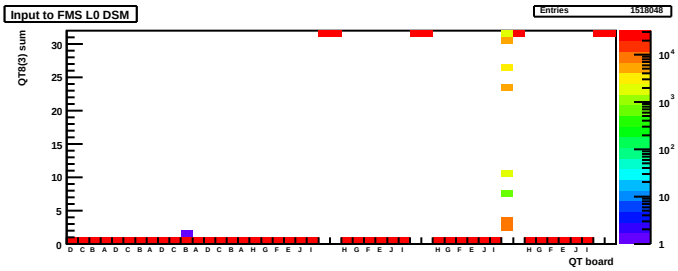

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

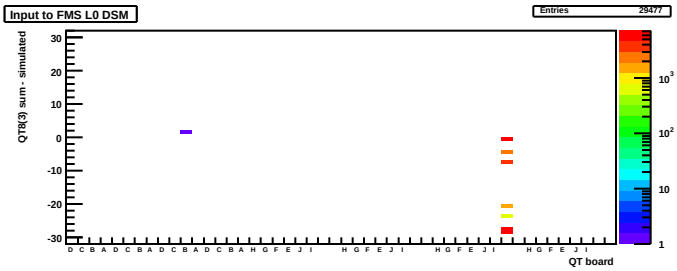

Input to FMS L0 DSM
Entries 1518048
QT8(1) sum
QT board

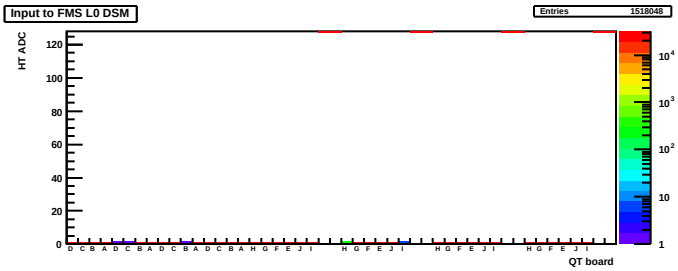

Input to FMS L0 DSM
Entries 0
QT8(1) sum - simulated
QT board

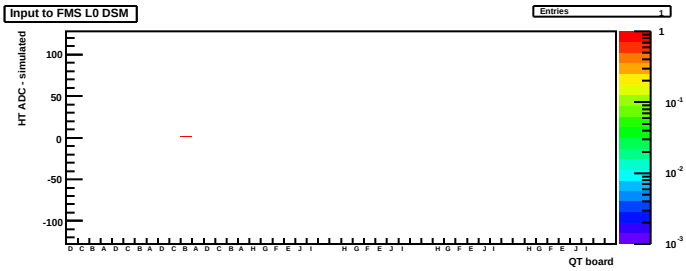

Input to FMS L0 DSM
Entries 1518048
QT8(2) sum
QT board

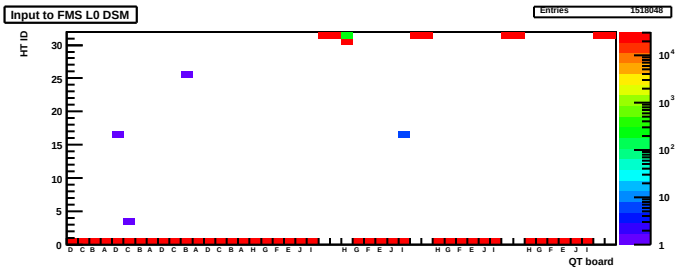

Input to FMS L0 DSM
Entries 22286
QT8(2) sum - simulated
QT board

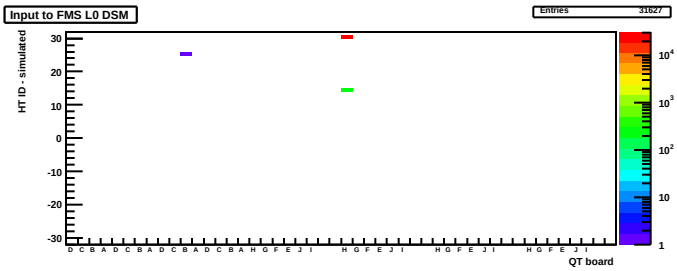

Input to FMS L0 DSM
Entries 1518048
QT8(3) sum
QT board

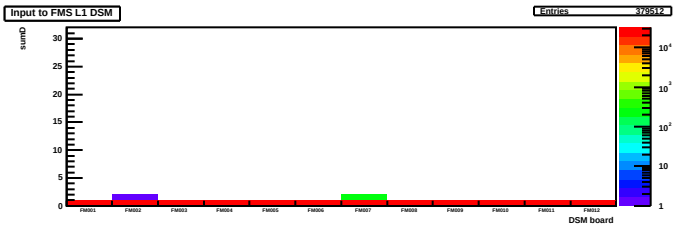

Input to FMS L0 DSM
Entries 29477
QT8(3) sum - simulated
QT board

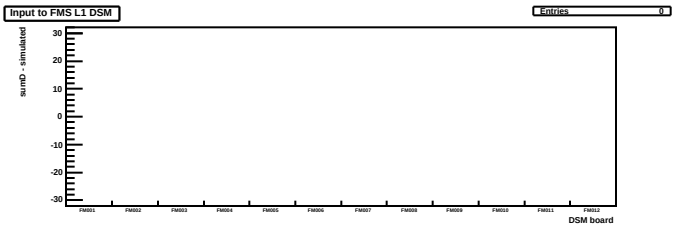

Input to FMS L0 DSM
Entries 1518048
HT ADC
QT board

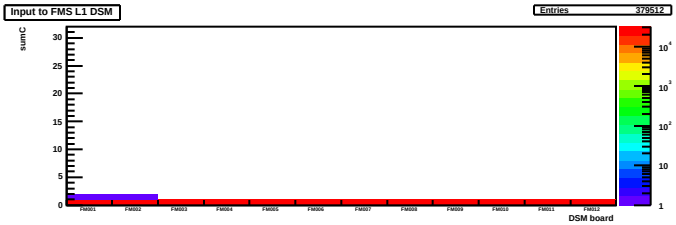

Input to FMS L0 DSM
Entries 1
HT ADC - simulated
QT board

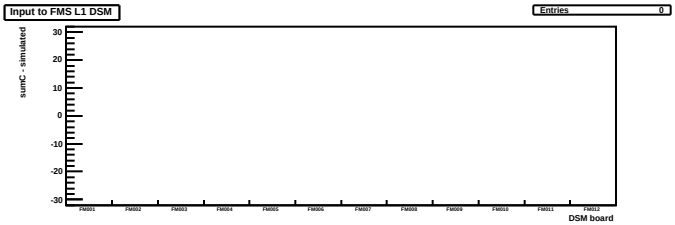

Input to FMS L0 DSM
Entries 1518048
HT ID
QT board

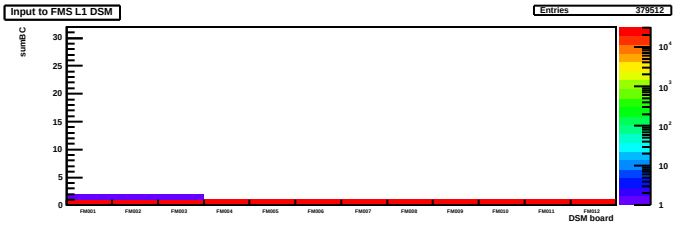

Input to FMS L0 DSM
Entries 31627
HT ID - simulated
QT board

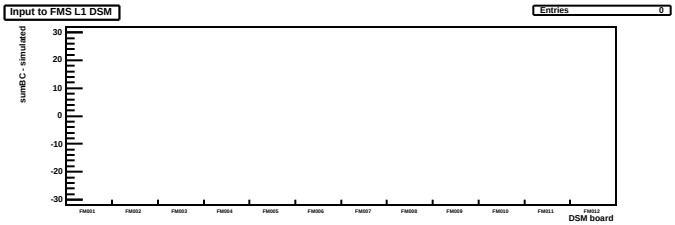

Input to FMS L1 DSM
Entries 379512
sumD
DSM board

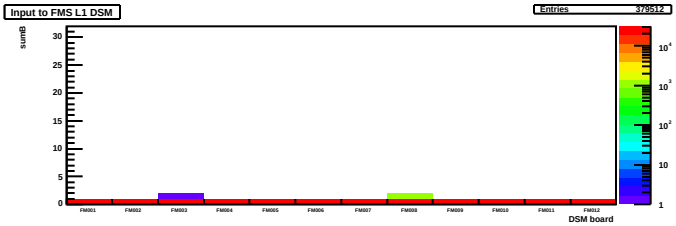

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

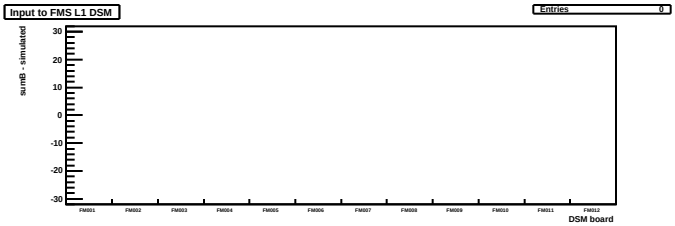

Input to FMS L1 DSM
Entries 379512
sumC
DSM board

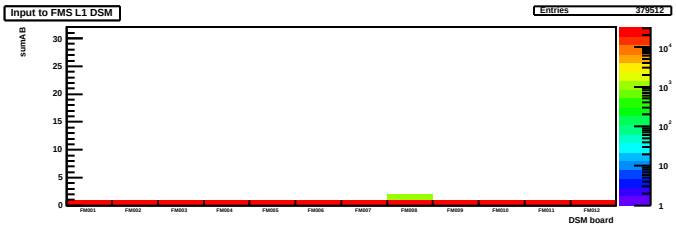

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

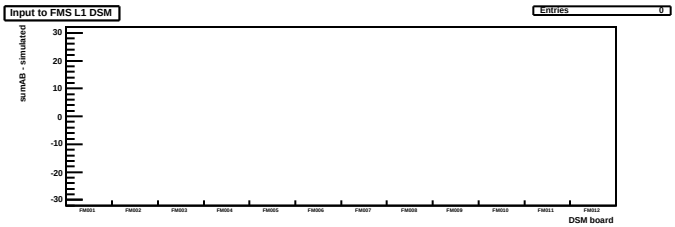

Input to FMS L1 DSM
Entries 379512
sumBC
DSM board

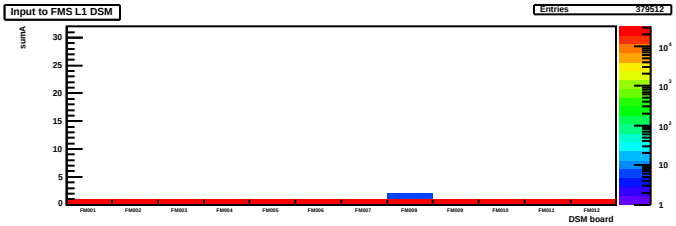

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

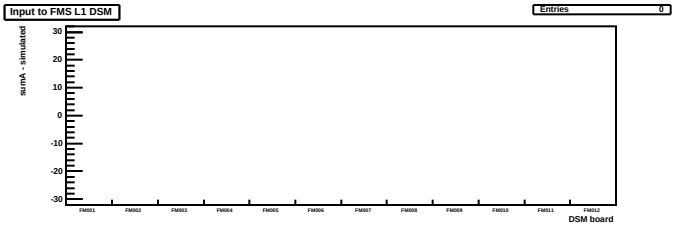

Input to FMS L1 DSM
Entries 379512
sumB
DSM board

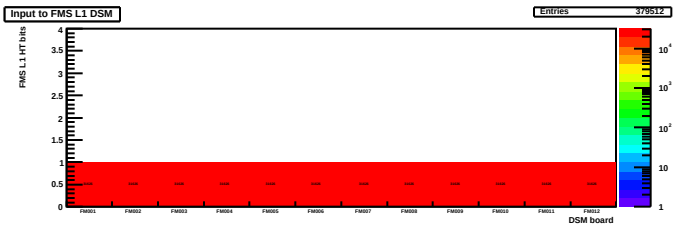

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

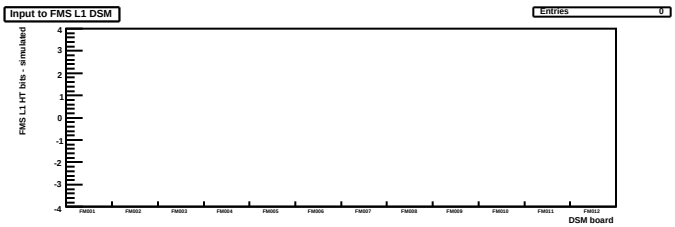

Input to FMS L1 DSM
Entries 379512
sumAB
DSM board

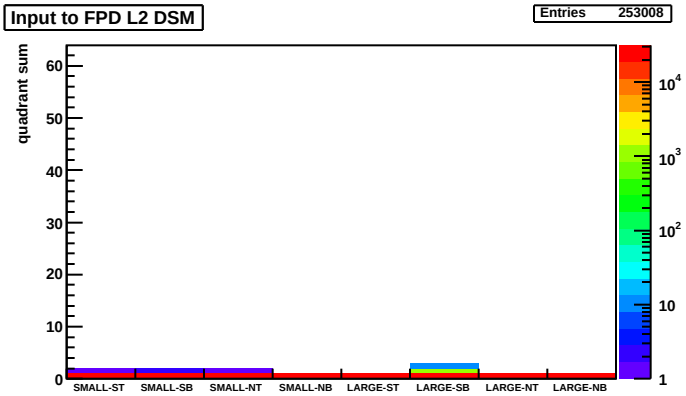

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

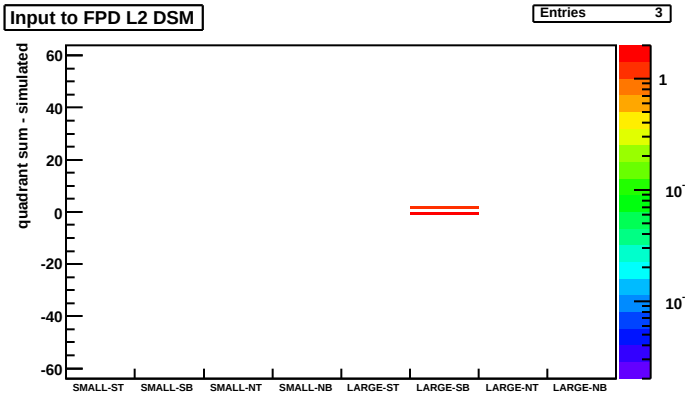

Input to FMS L1 DSM
Entries 379512
sumA
DSM board

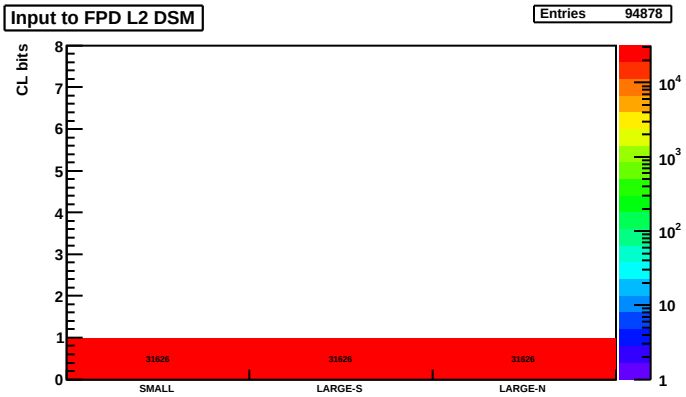

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

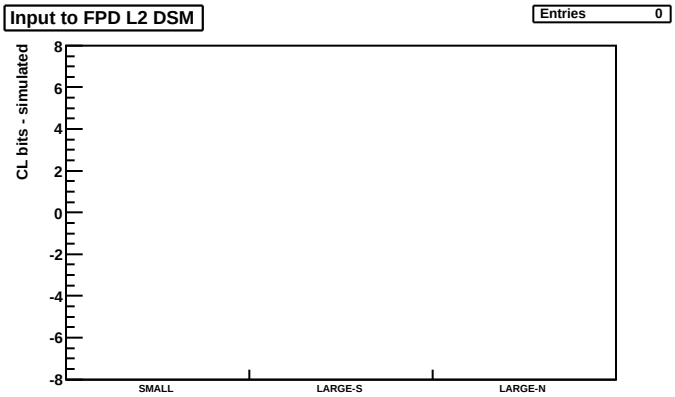

Input to FMS L1 DSM
Entries 379512
FMS L1 HT bits
DSM board

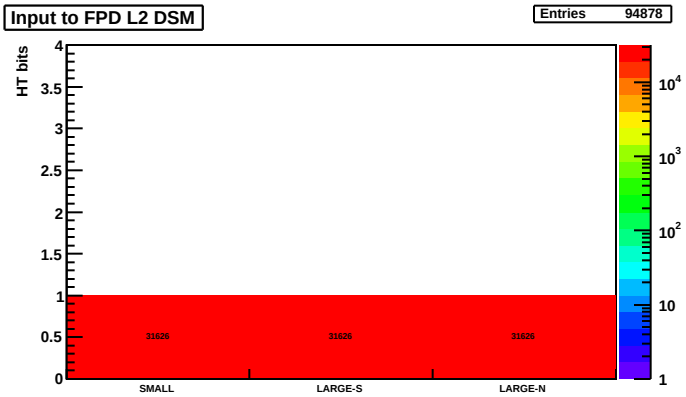

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

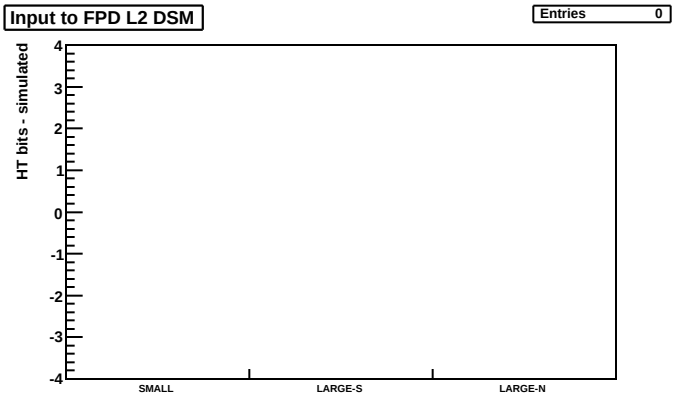

Input to FPD L2 DSM
Entries 253008
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

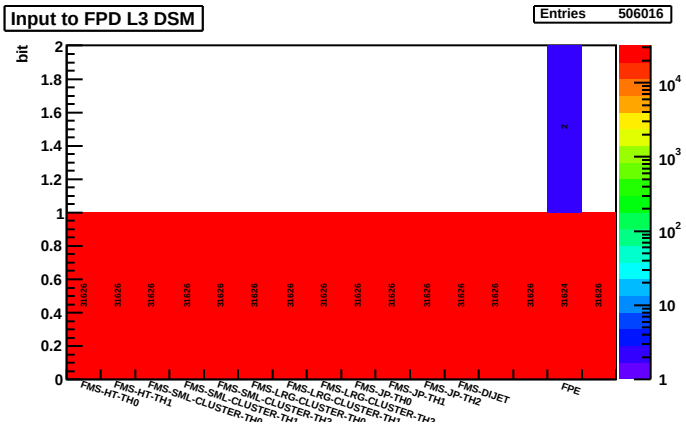

Input to FPD L2 DSM
Entries 3
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

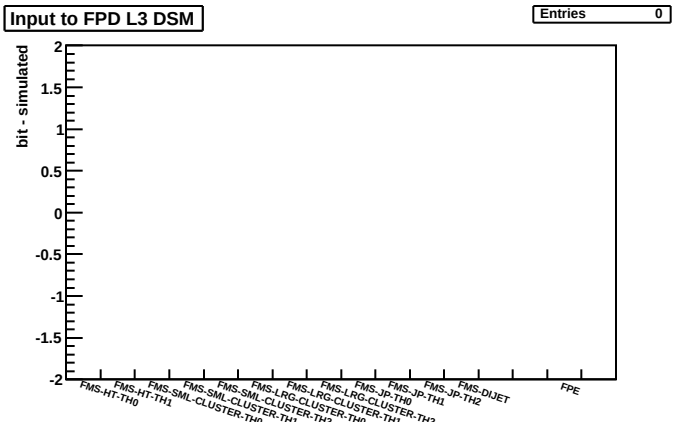

Input to FPD L2 DSM
Entries 94878
CL bits
31626
31626
31626
SMALL
LARGE-S
LARGE-N

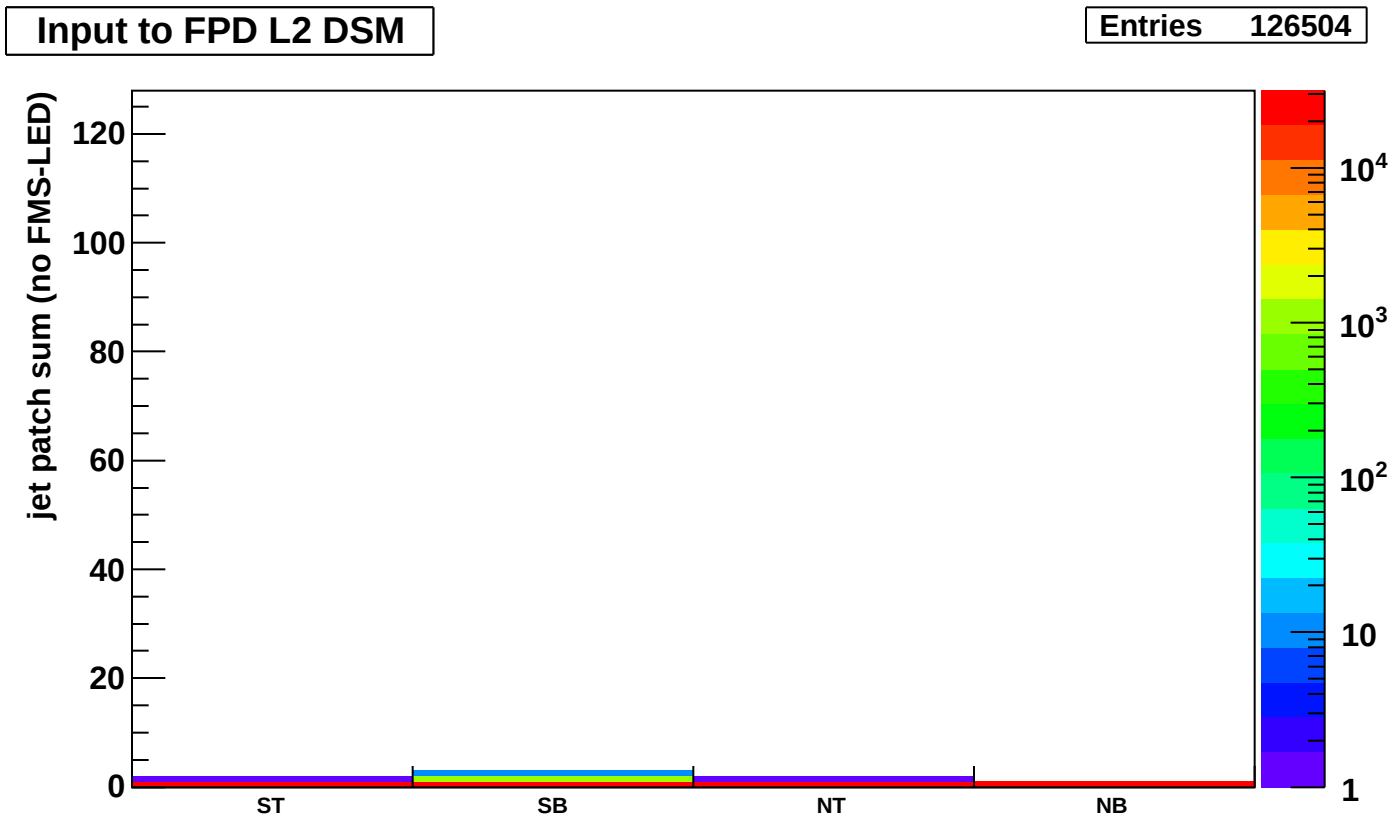

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

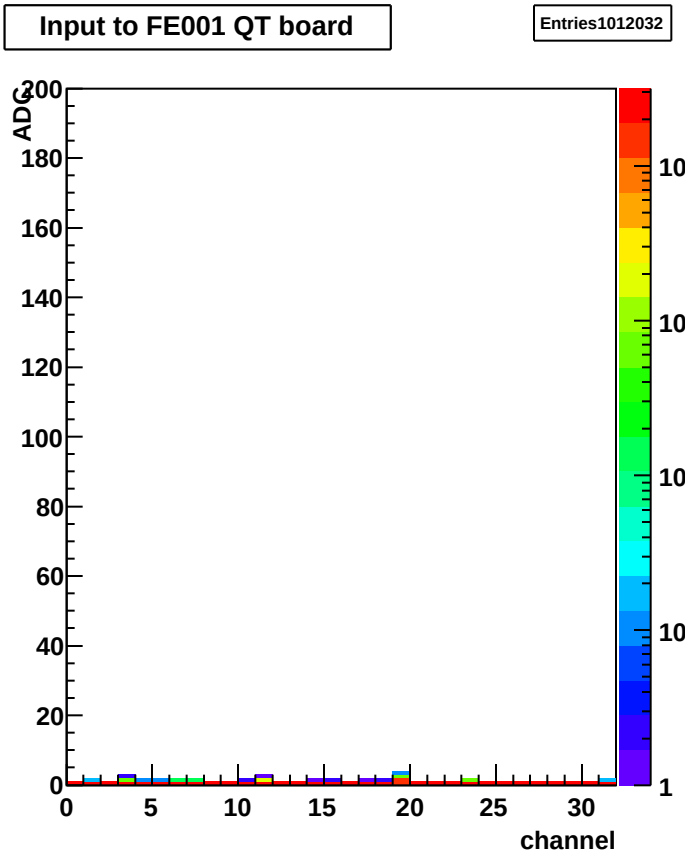

Input to FPD L2 DSM
Entries 94878
HT bits
31626
31626
31626
SMALL
LARGE-S
LARGE-N

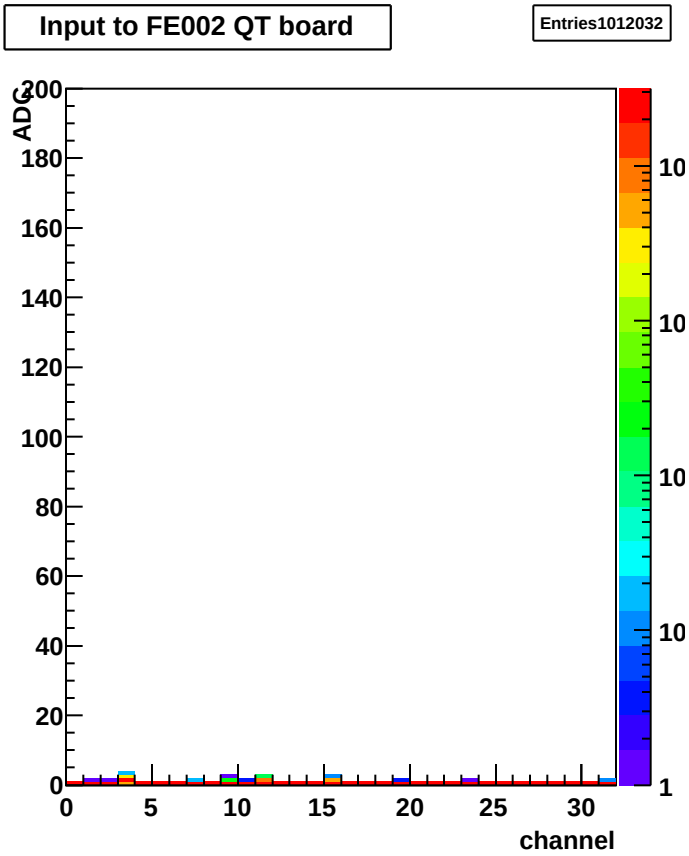

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

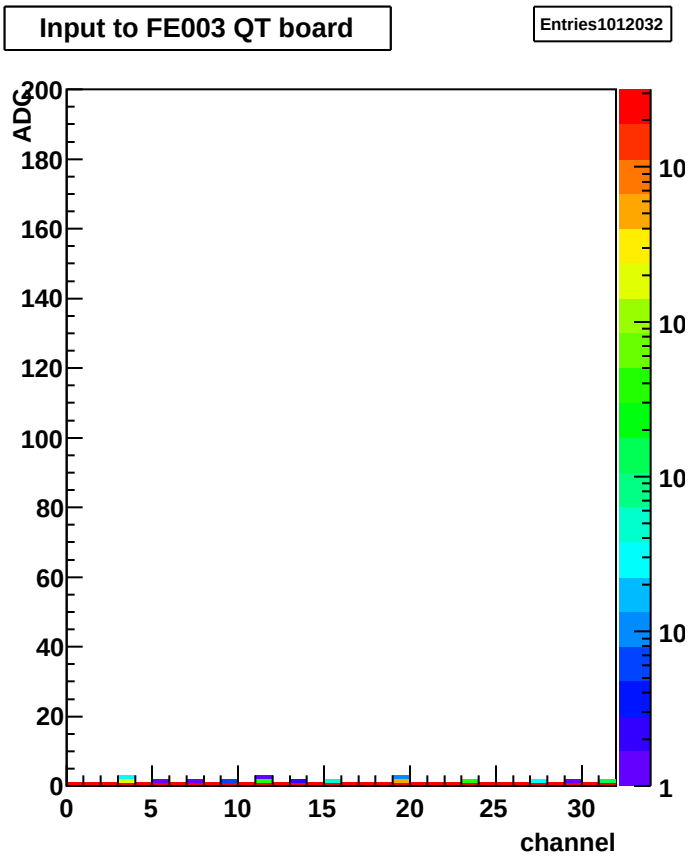

Input to FPD L3 DSM
Entries 506016
bit
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

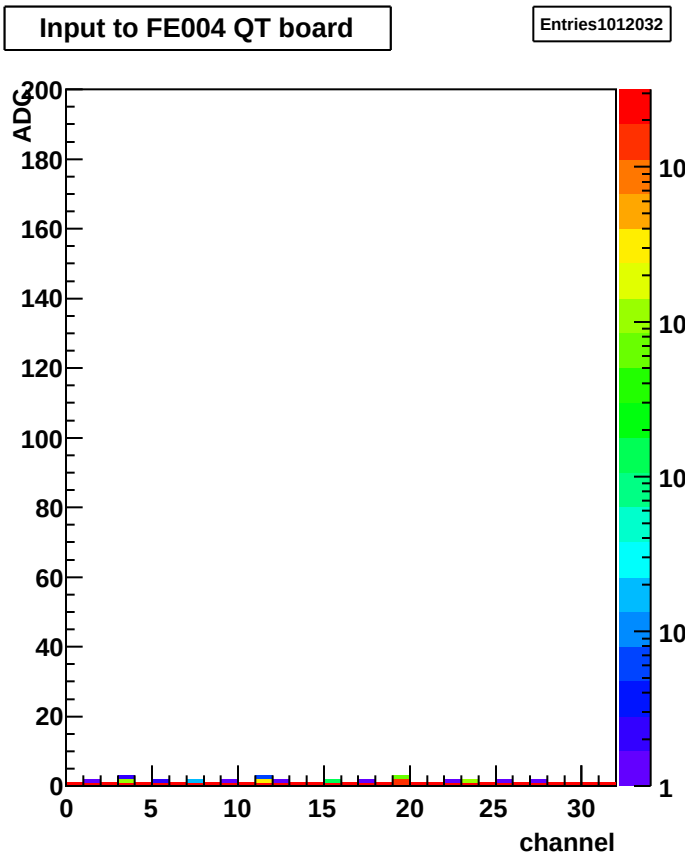

Input to FPD L3 DSM
Entries 0
bit - simulated
FMS-HT-TH0
FMS-HT-TH1
FMS-SML-CLUSTER-TH0
FMS-SML-CLUSTER-TH1
FMS-SML-CLUSTER-TH2
FMS-LRG-CLUSTER-TH0
FMS-LRG-CLUSTER-TH1
FMS-LRG-CLUSTER-TH2
FMS-JP-TH0
FMS-JP-TH1
FMS-JP-TH2
FMS-DIJET
FPE

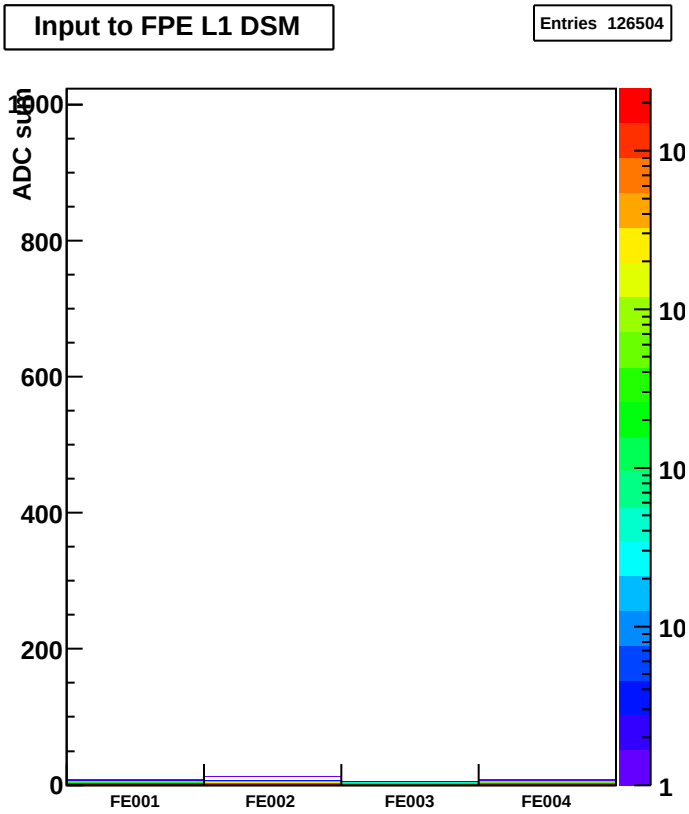

Input to FPD L2 DSM
Entries 126504
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

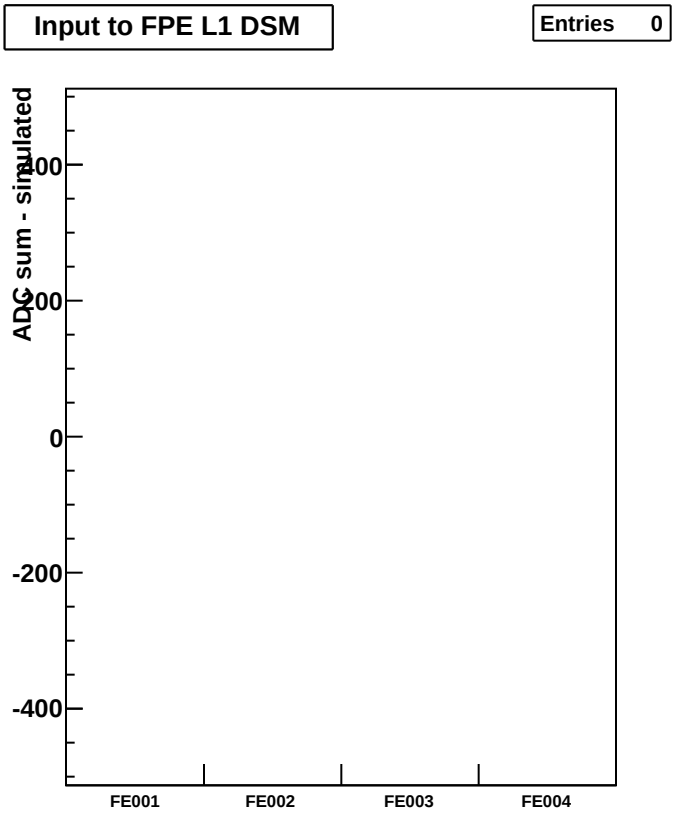

Input to FE001 QT board
Entries1012032
ADC
channel

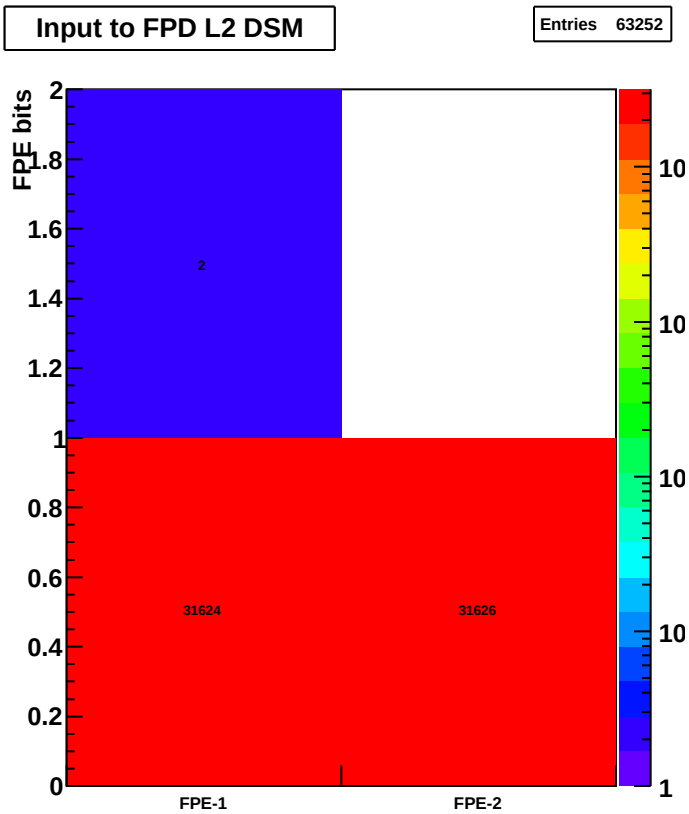

Input to FE002 QT board
Entries1012032
ADC
channel

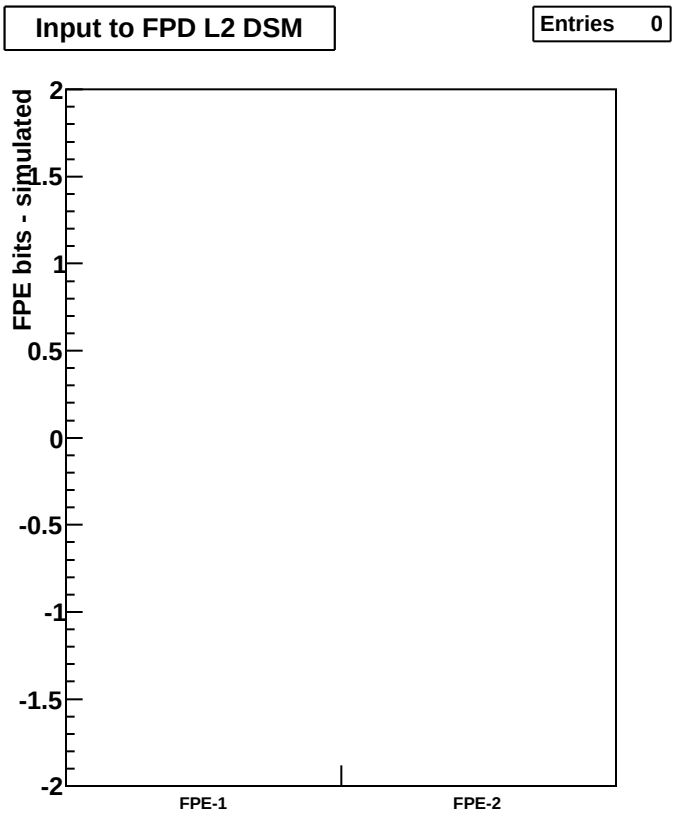

Input to FE003 QT board
Entries1012032
ADC
channel


Input to FE004 QT board
Entries1012032
ADC
channel


Input to FPE L1 DSM
Entries 126504
ADC sum
1000
800
600
400
200
0
FE001
FE002
FE003
FE004
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 63252
FPE bits
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2
31624
31626
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