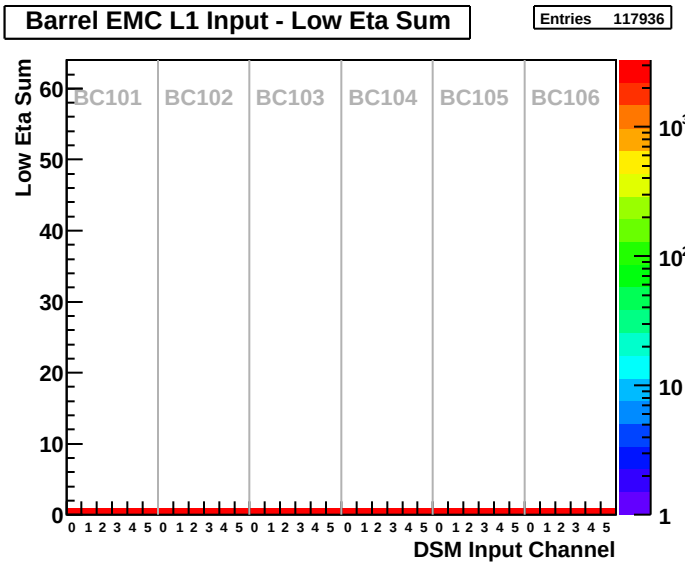
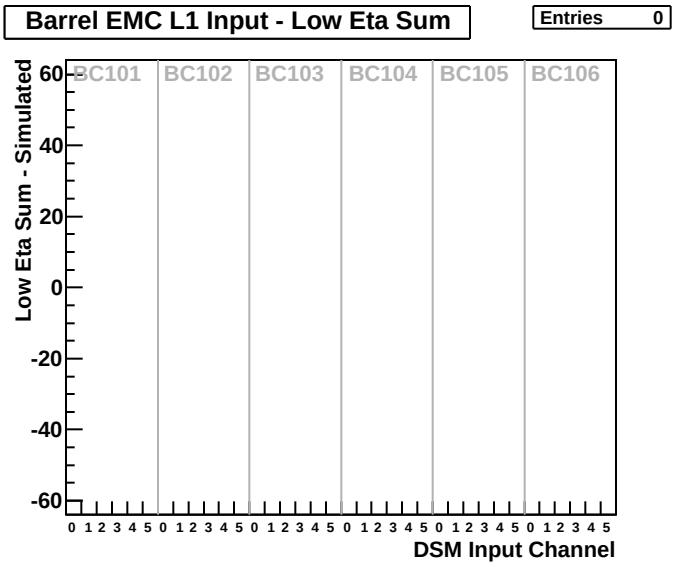
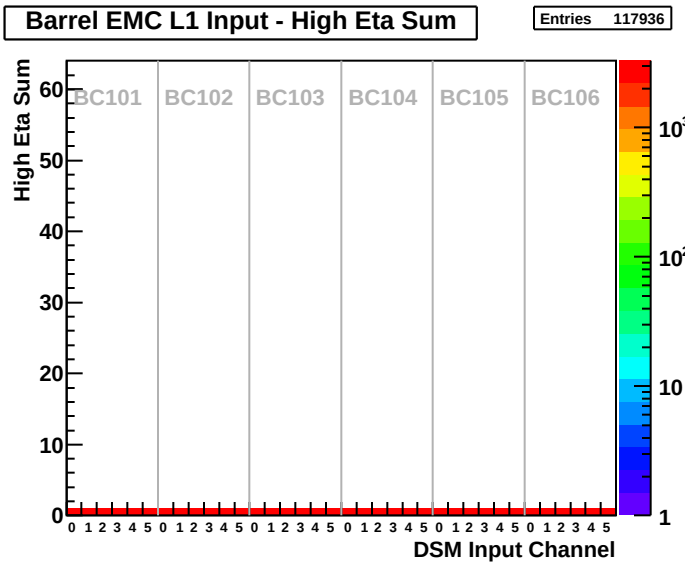
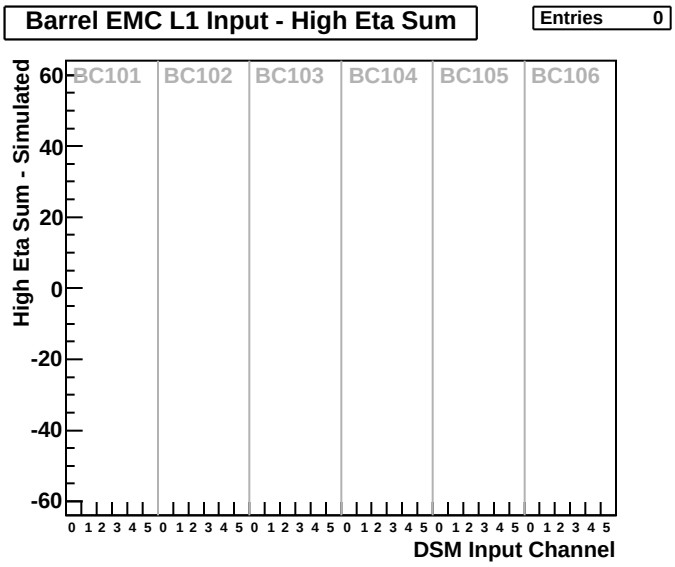
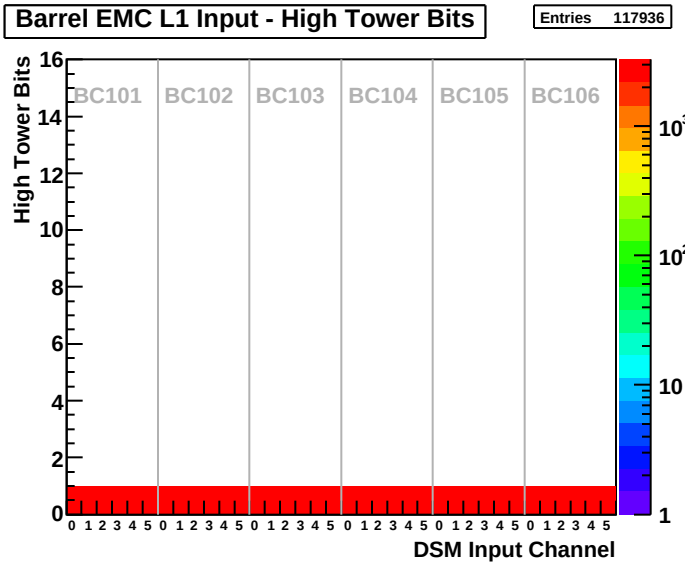
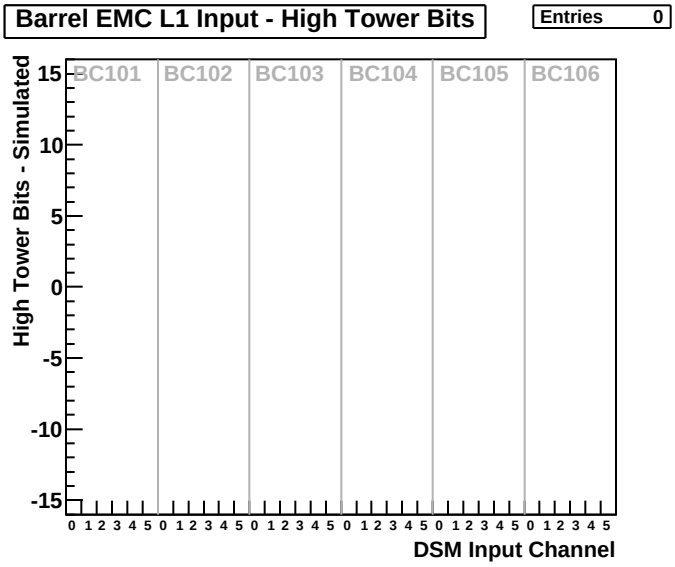

Barrel EMC L1 Input - Low Eta Sum
Entries 117936
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

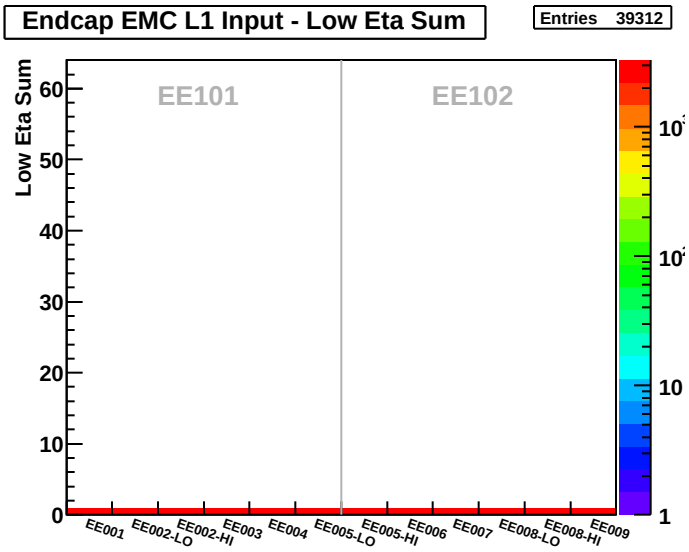

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

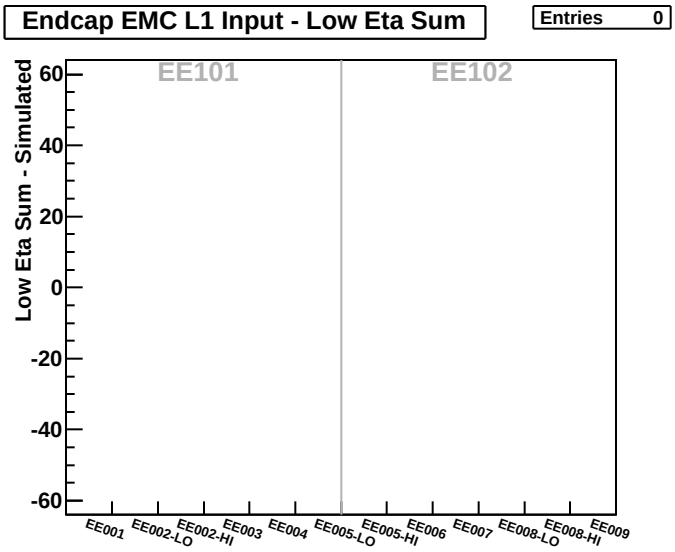

Barrel EMC L1 Input - High Eta Sum
Entries 117936
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

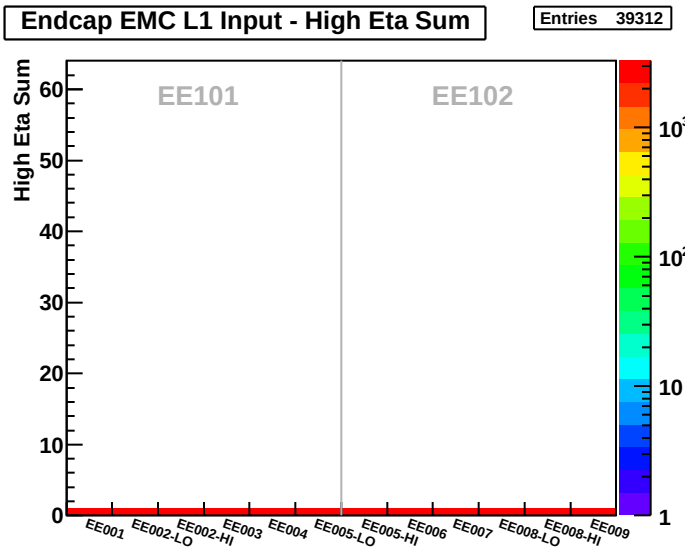

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

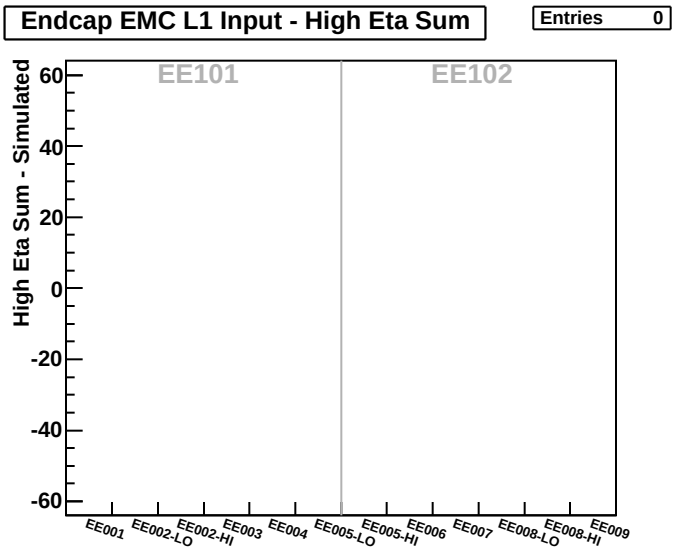

Barrel EMC L1 Input - High Tower Bits
Entries 117936
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

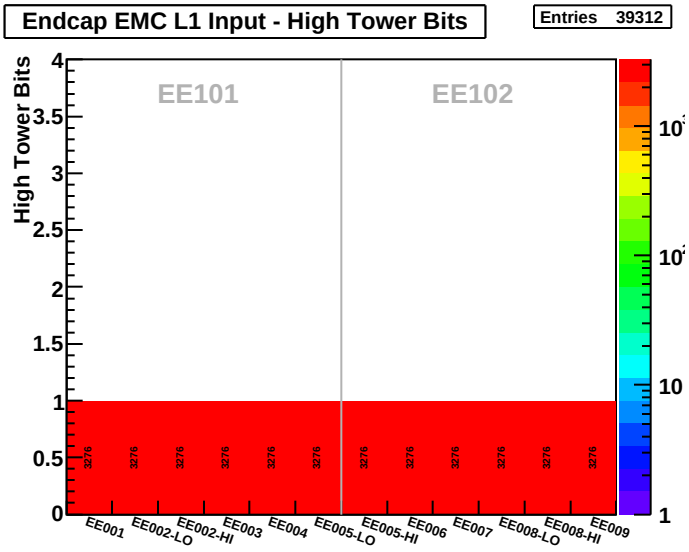

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

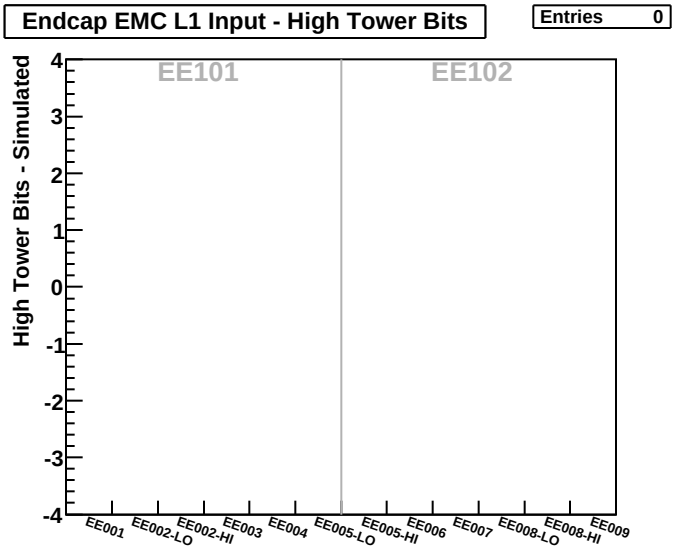

Endcap EMC L1 Input - Low Eta Sum
Entries 39312
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

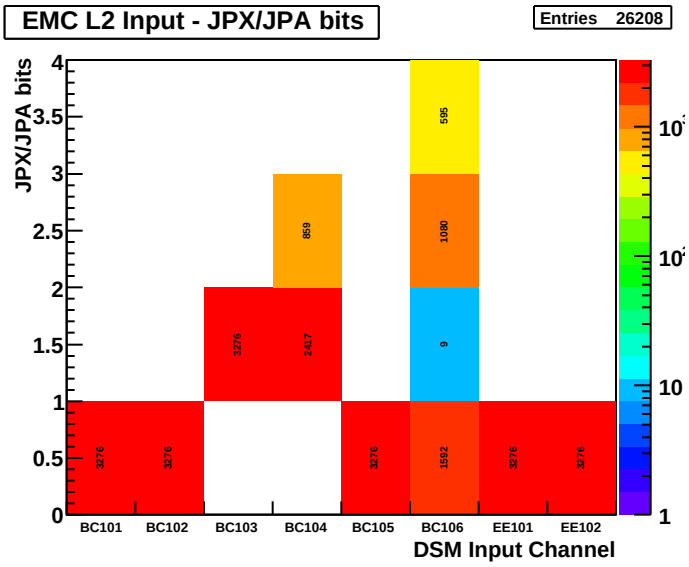

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

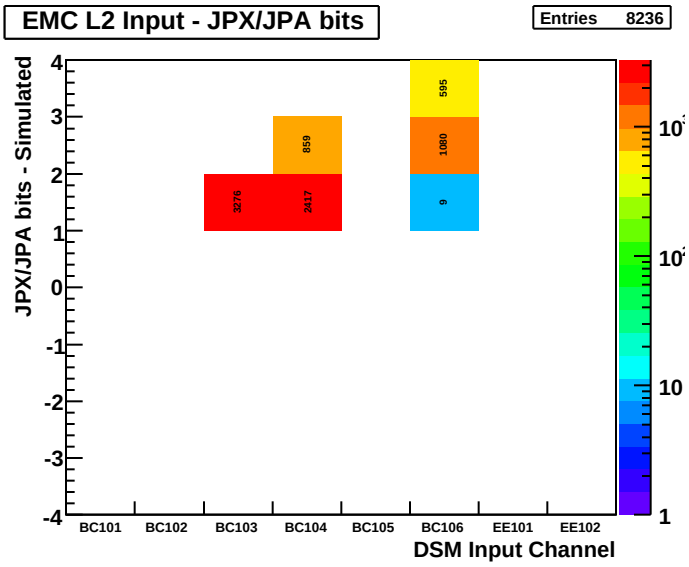

Endcap EMC L1 Input - High Eta Sum
Entries 39312
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

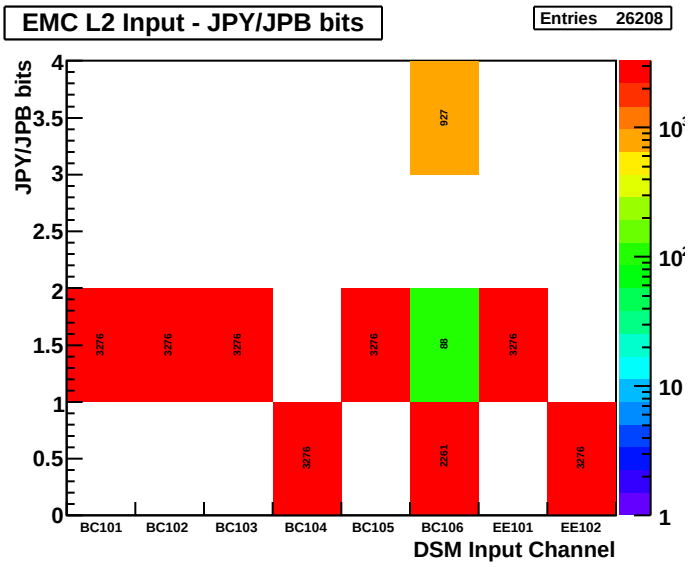

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

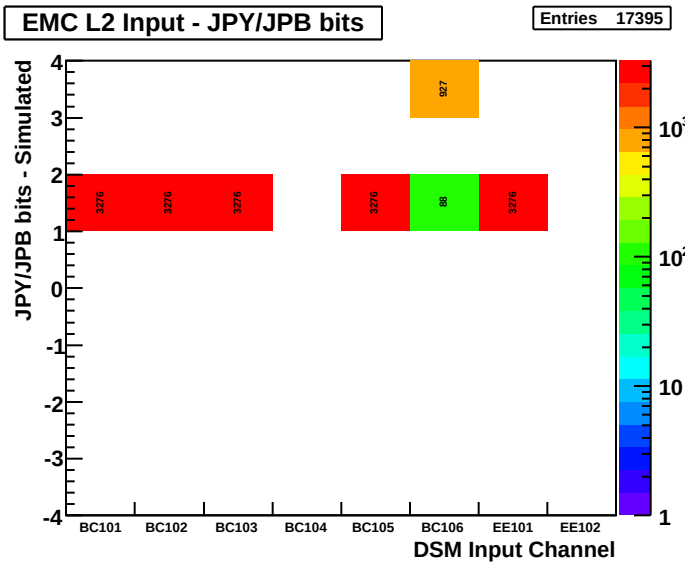

Endcap EMC L1 Input - High Tower Bits
Entries 39312
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

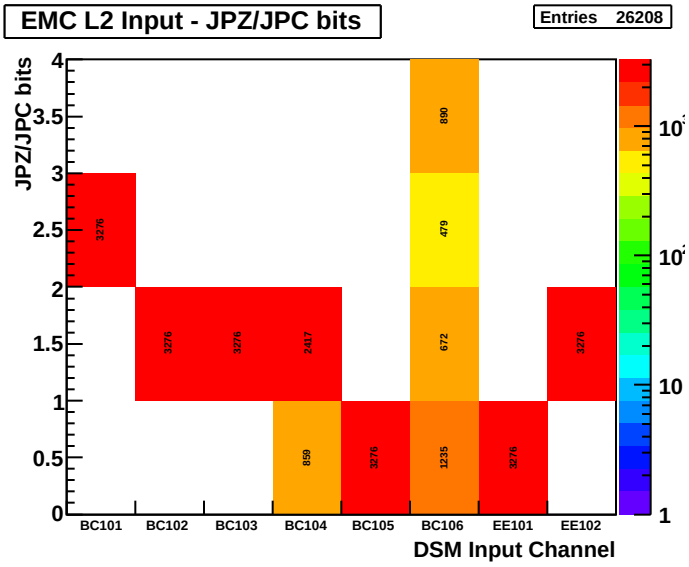

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

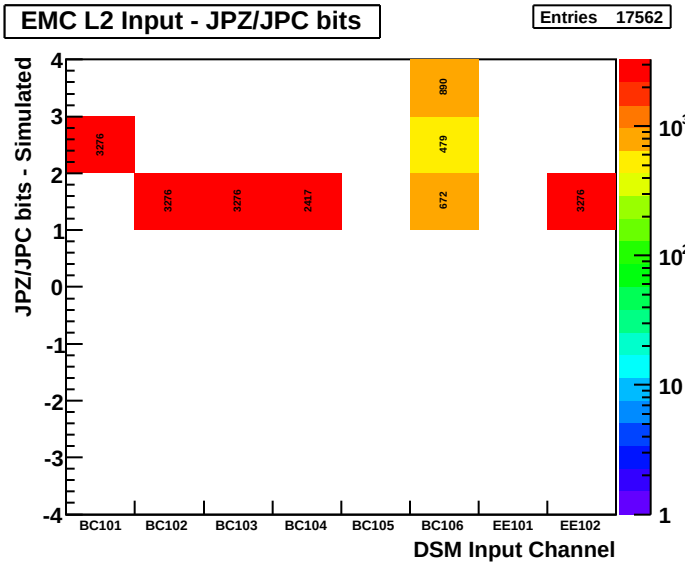

EMC L2 Input - JPX/JPA bits
Entries 26208
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3276 3276 3276 2417 859 3276 1592 9 1080 595 3276 3276

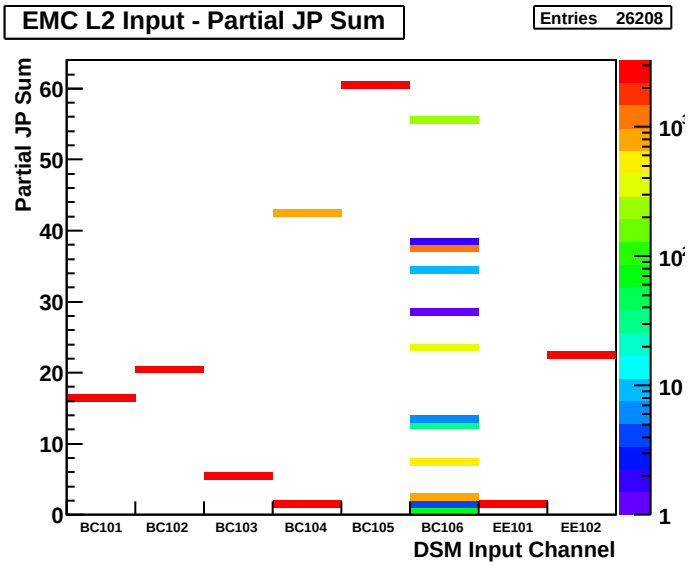

EMC L2 Input - JPX/JPA bits
Entries 8236
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3276 2417 859 9 1080 595

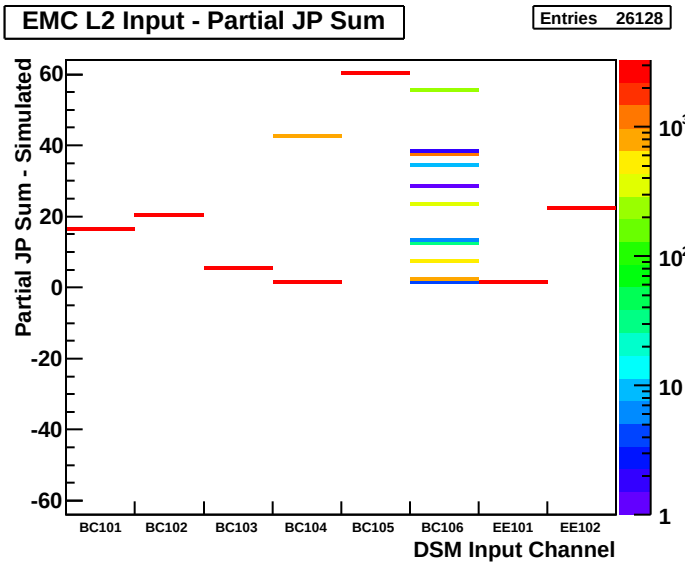

EMC L2 Input - JPY/JPB bits
Entries 26208
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3276 3276 3276 3276 88 3276 927 3276 2261 3276

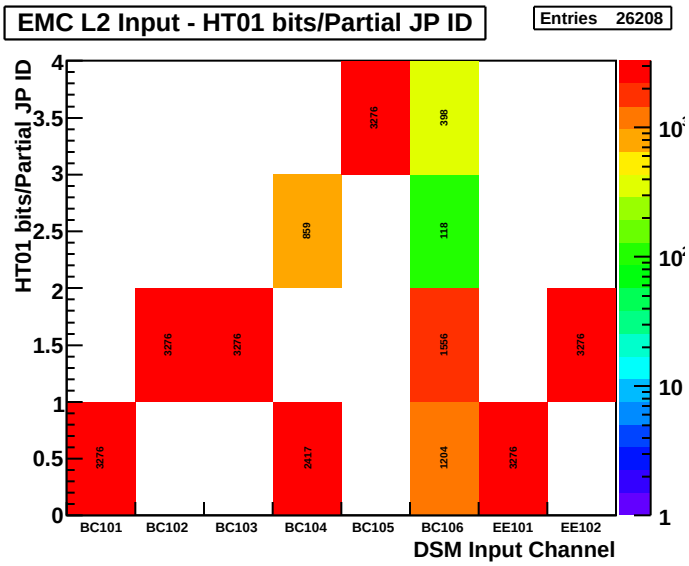

EMC L2 Input - JPY/JPB bits
Entries 17395
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3276 3276 3276 3276 88 3276 927

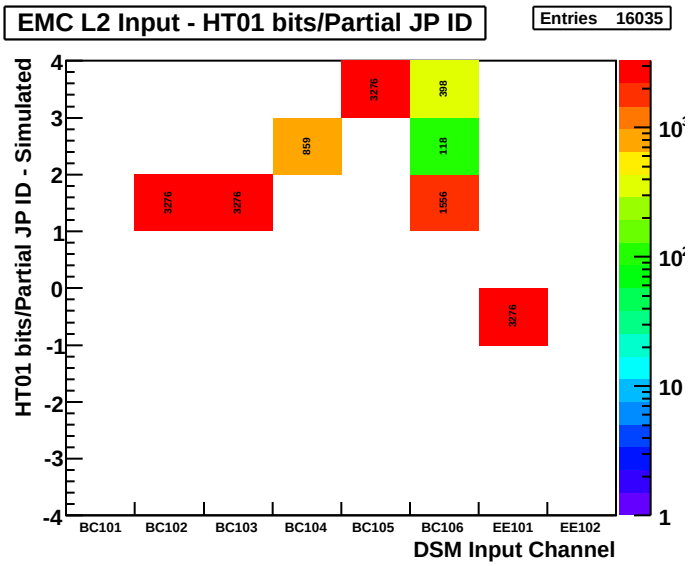

EMC L2 Input - JPZ/JPC bits
Entries 26208
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3276 3276 3276 2417 859 3276 1235 3276 672 479 890 3276

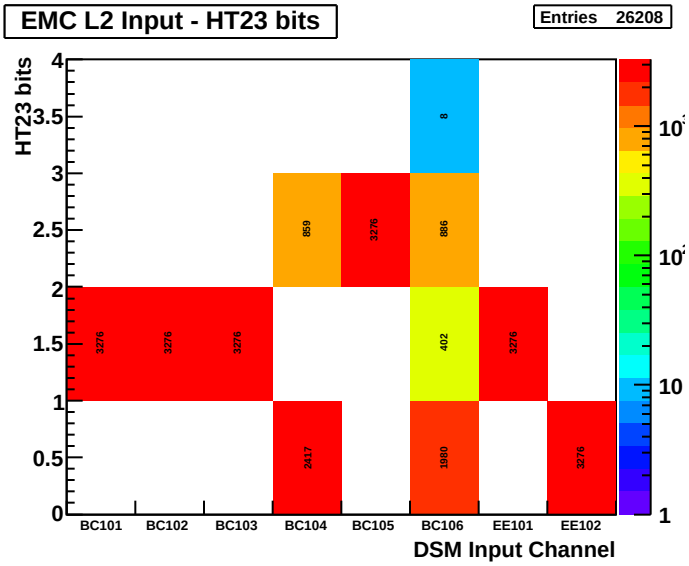

EMC L2 Input - JPZ/JPC bits
Entries 17562
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3276 3276 3276 2417 672 479 890 3276

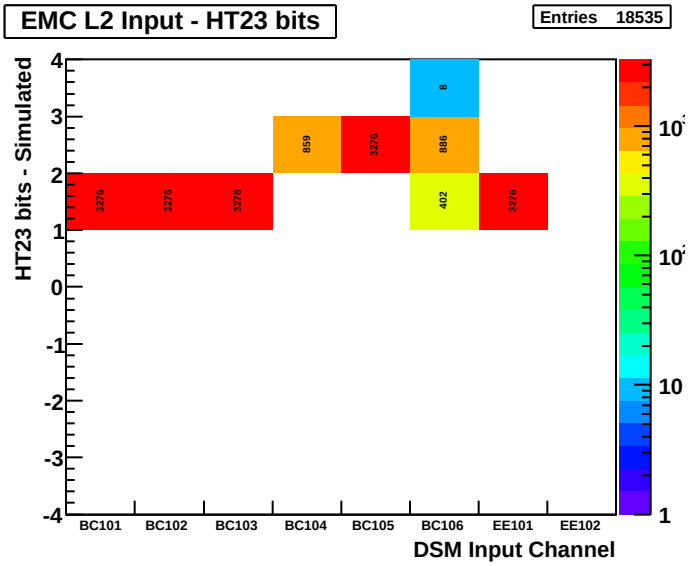

EMC L2 Input - Partial JP Sum
Entries 26208
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

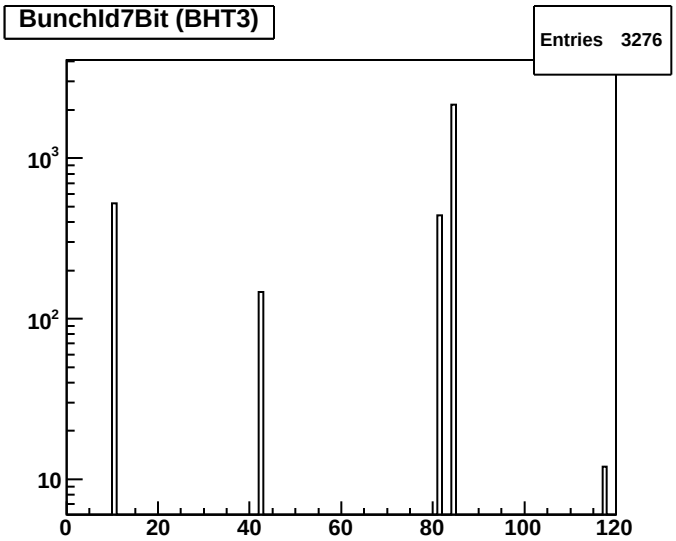

EMC L2 Input - Partial JP Sum
Entries 26128
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

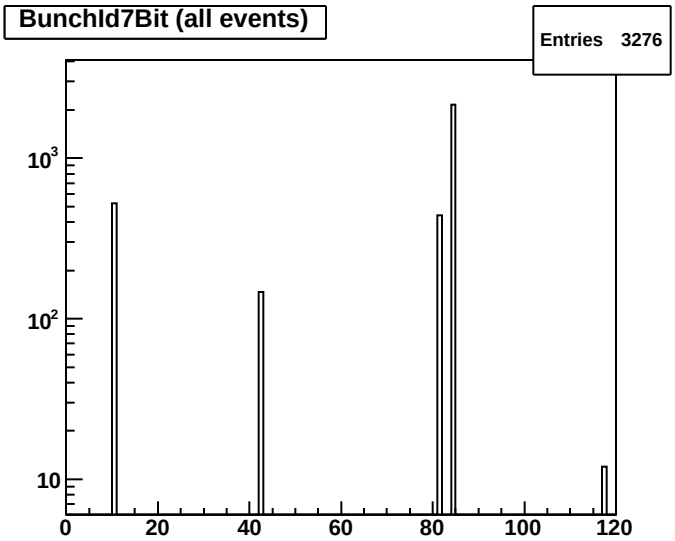

EMC L2 Input - HT01 bits/Partial JP ID
Entries 26208
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

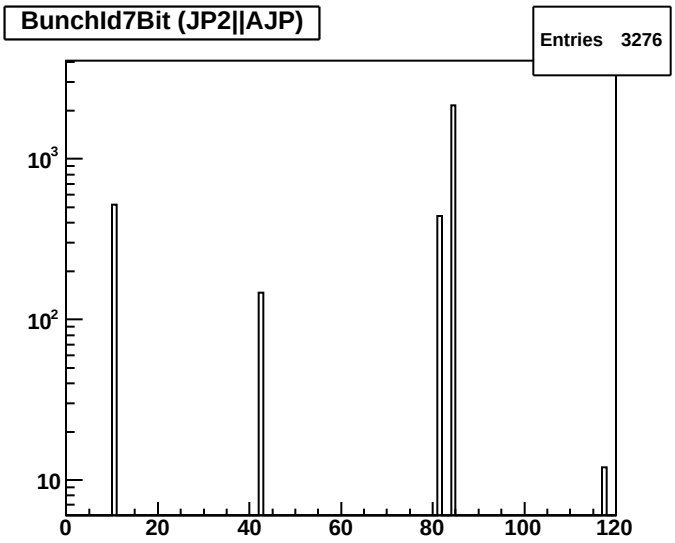

EMC L2 Input - HT01 bits/Partial JP ID
Entries 16035
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

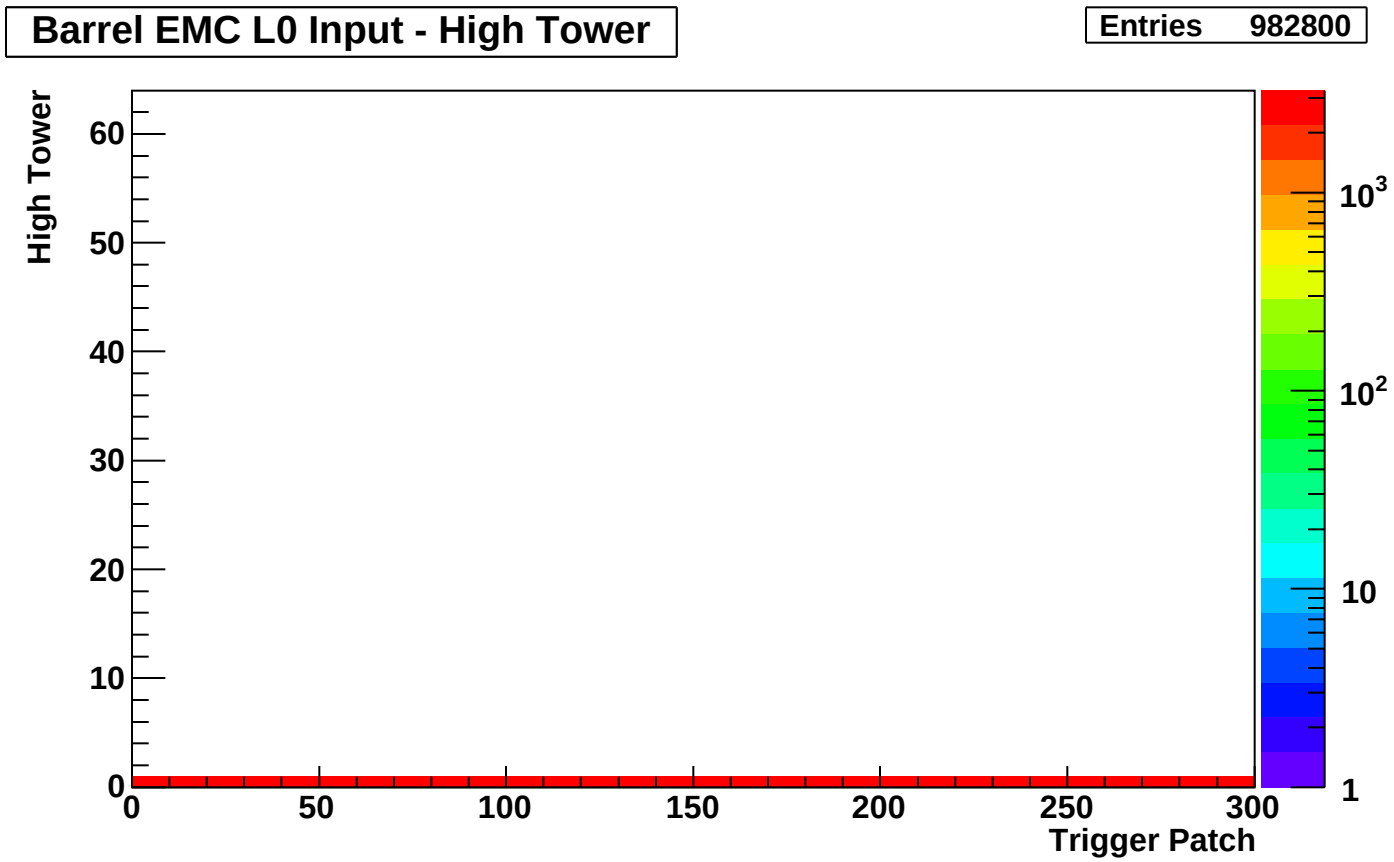

EMC L2 Input - HT23 bits
Entries 26208
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

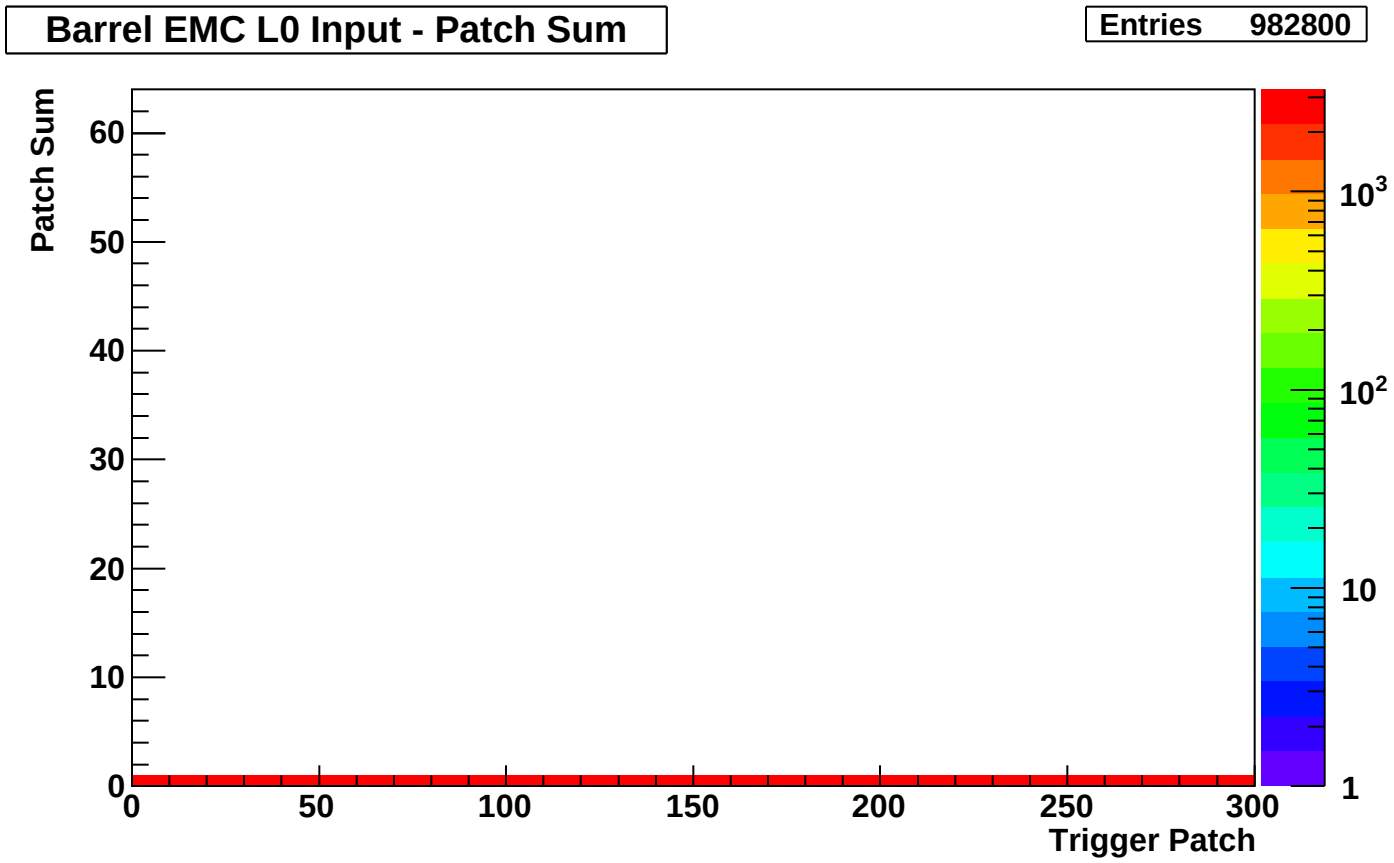

EMC L2 Input - HT23 bits
Entries 18535
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

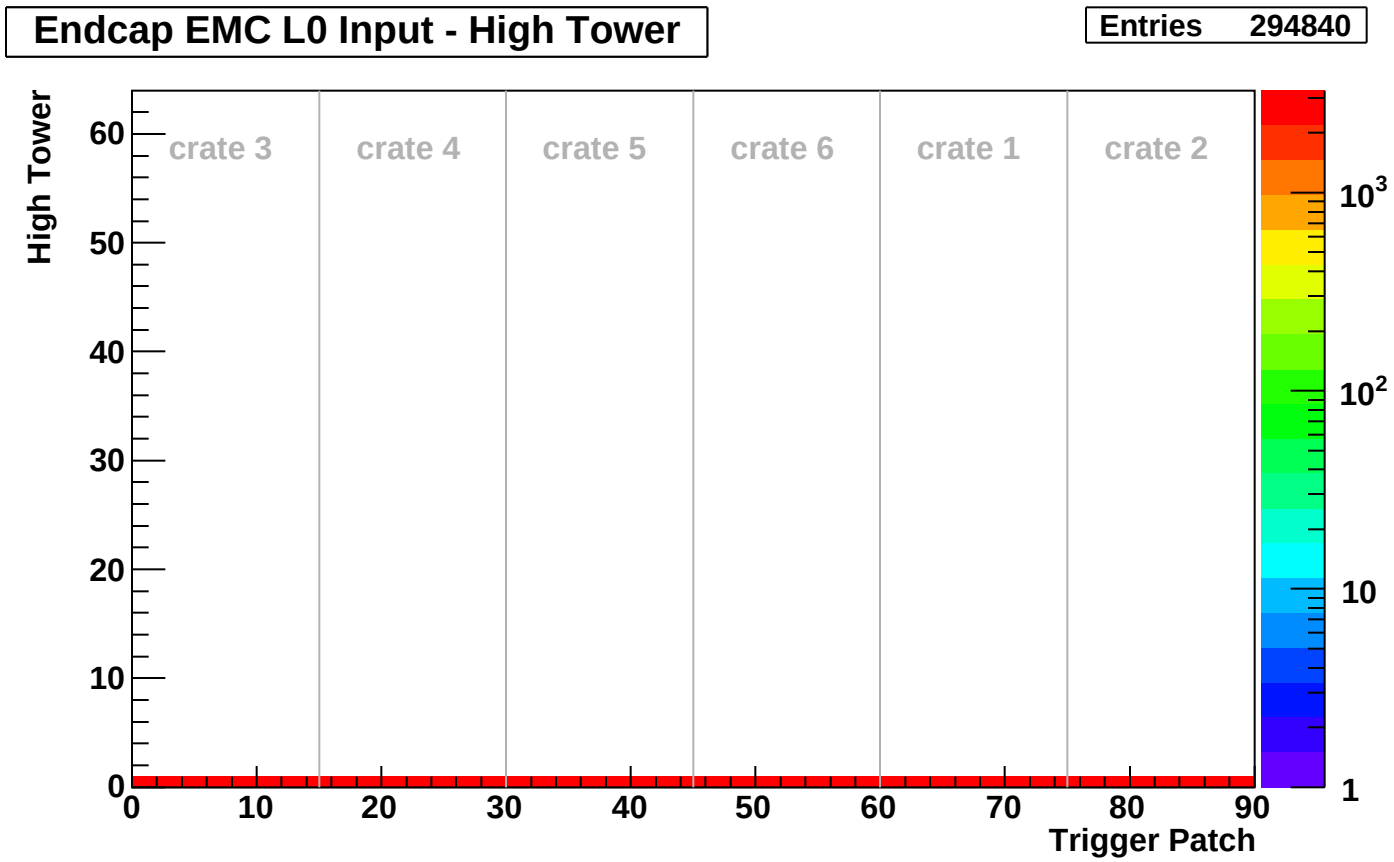

BunchId7Bit (BHT3)
Entries 3276
10^3
10^2
10
0
20
40
60
80
100
120

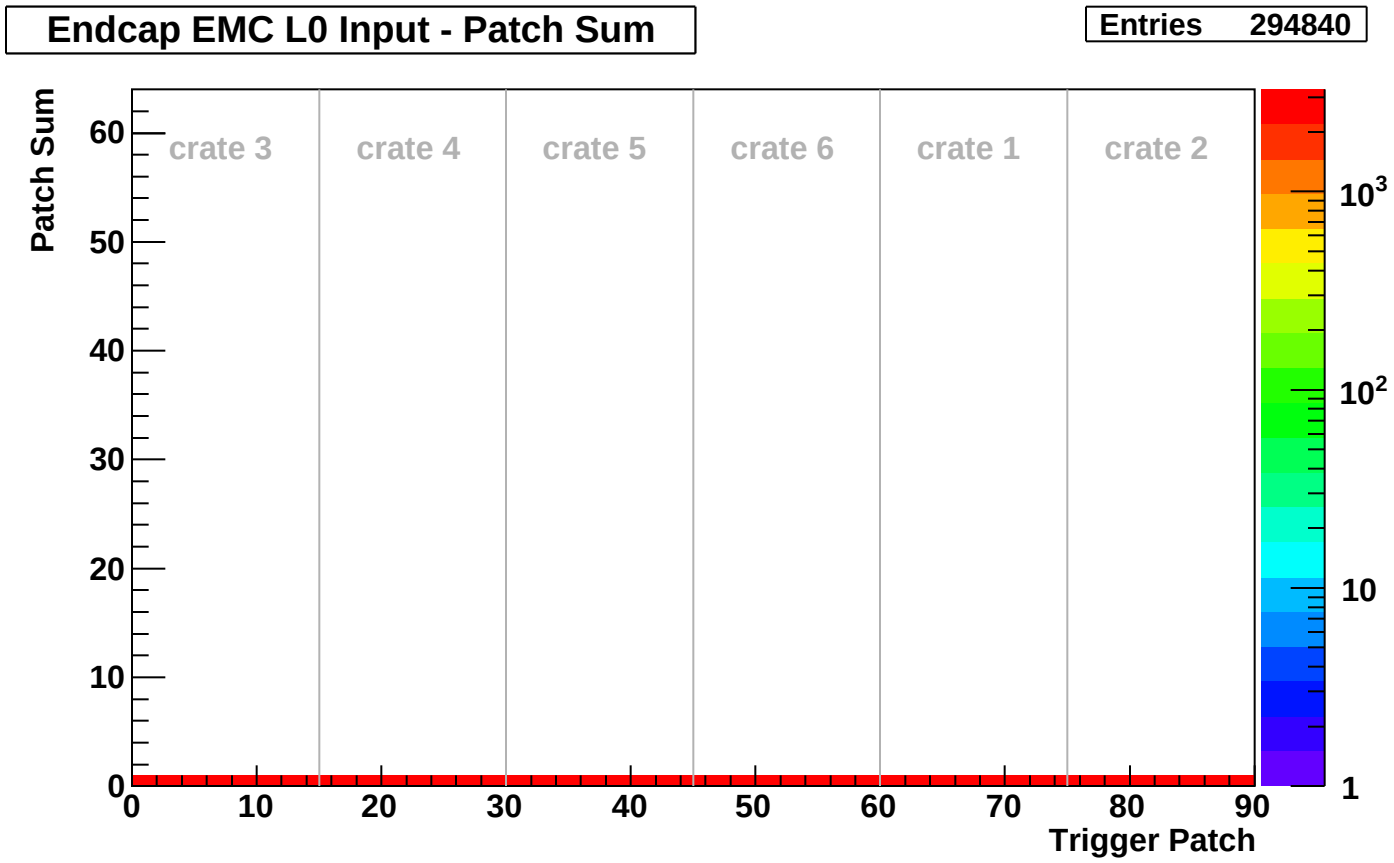

BunchId7Bit (all events)
Entries 3276
10^3
10^2
10
0
20
40
60
80
100
120

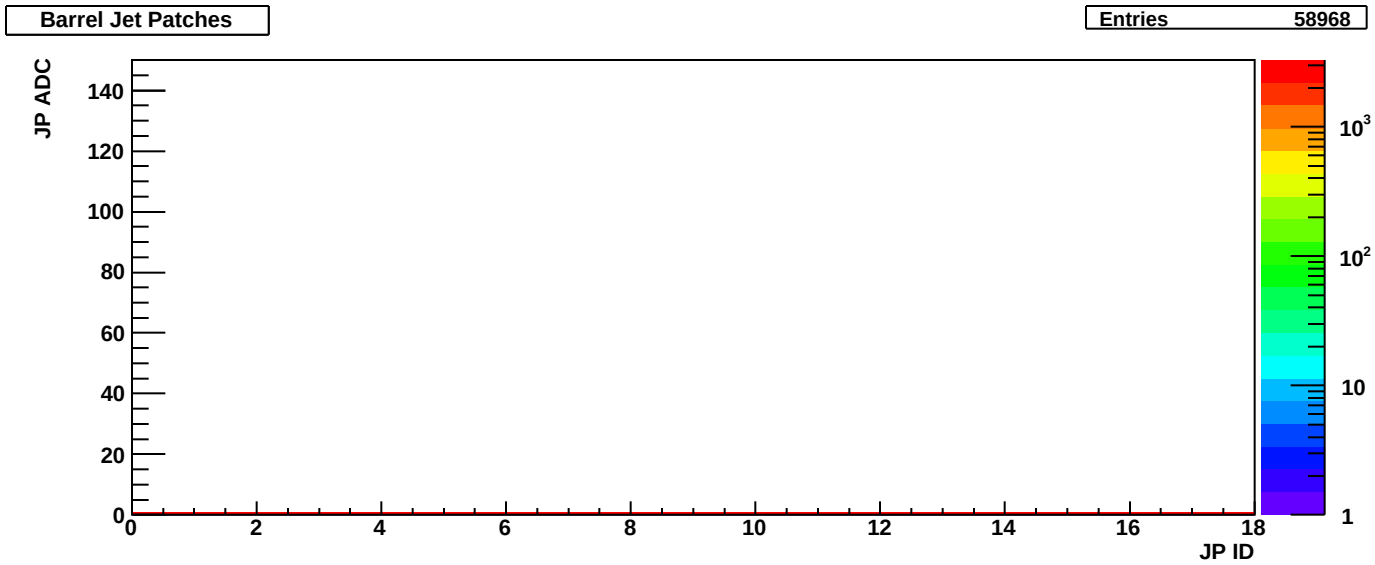

BunchId7Bit (JP2||AJP)
Entries 3276
10^3
10^2
10
0
20
40
60
80
100
120

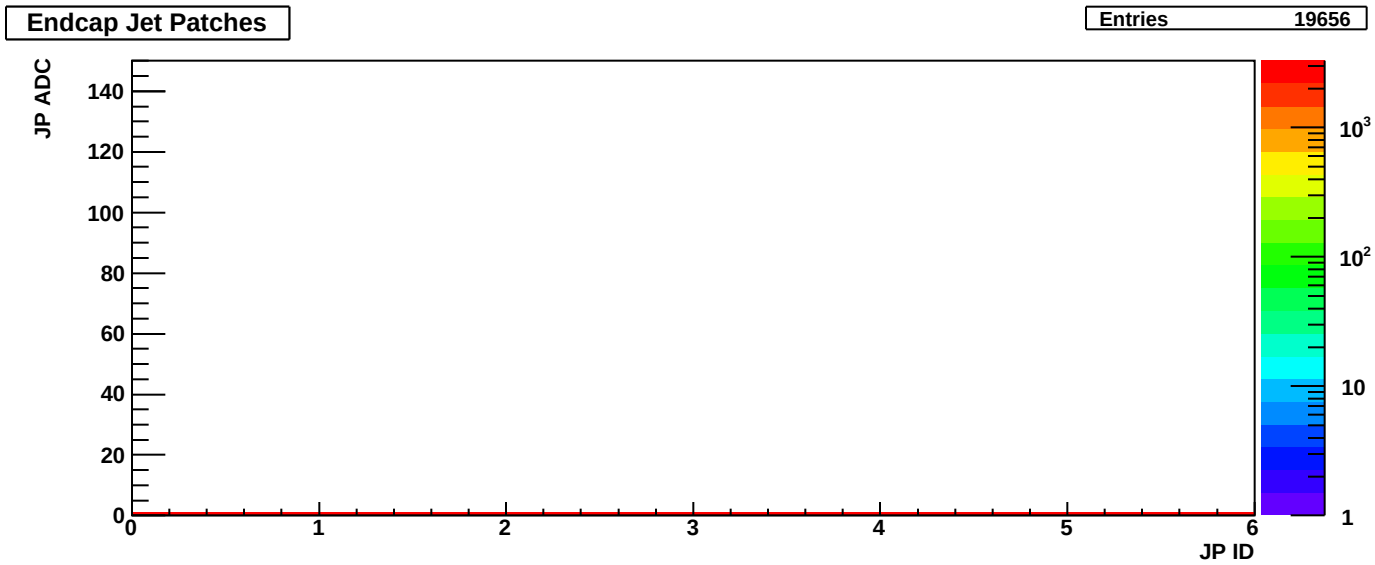

Barrel EMC L0 Input - High Tower
Entries 982800
High Tower
0
10
20
30
40
50
60
0
50
100
150
200
250
300
Trigger Patch
1
10
10^2
10^3

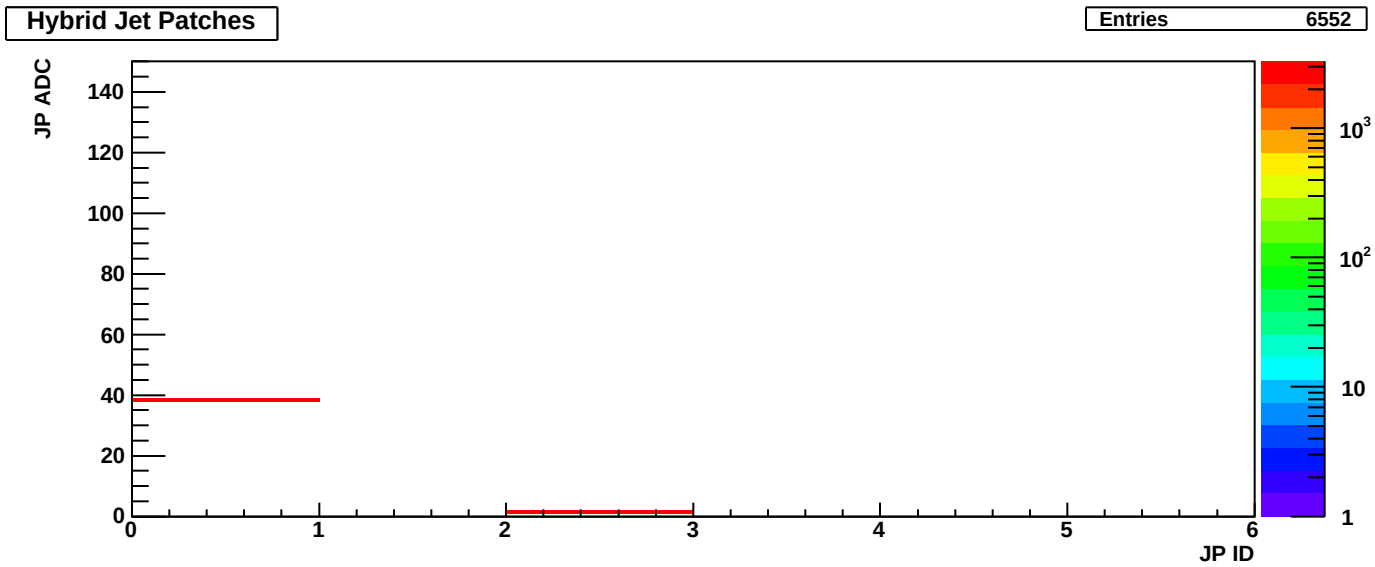

Barrel EMC L0 Input - Patch Sum
Entries 982800
Patch Sum
0
10
20
30
40
50
60
0
50
100
150
200
250
300
Trigger Patch
1
10
10^2
10^3

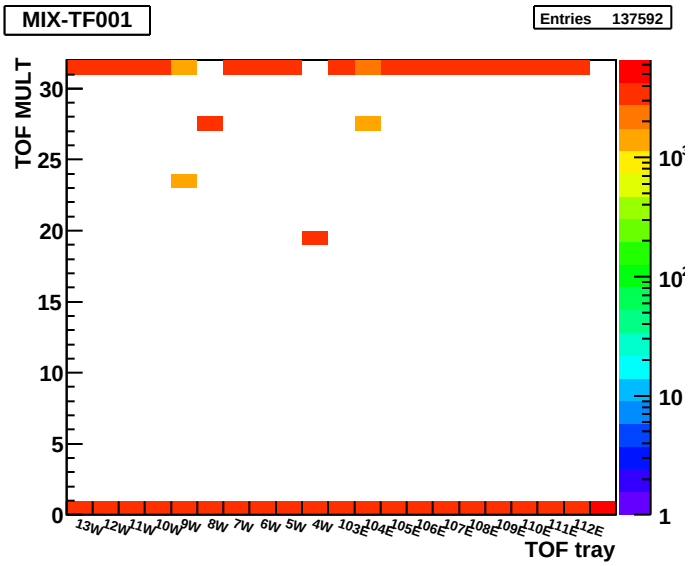

Endcap EMC L0 Input - High Tower
Entries 294840
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

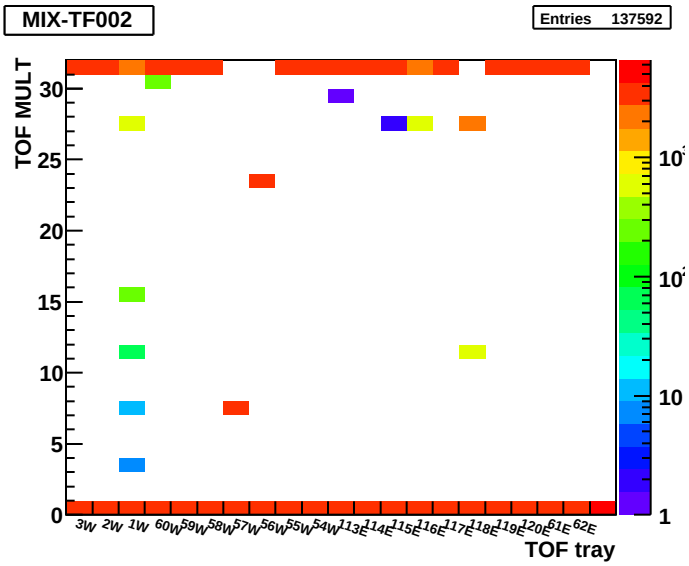

Endcap EMC L0 Input - Patch Sum
Entries 294840
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

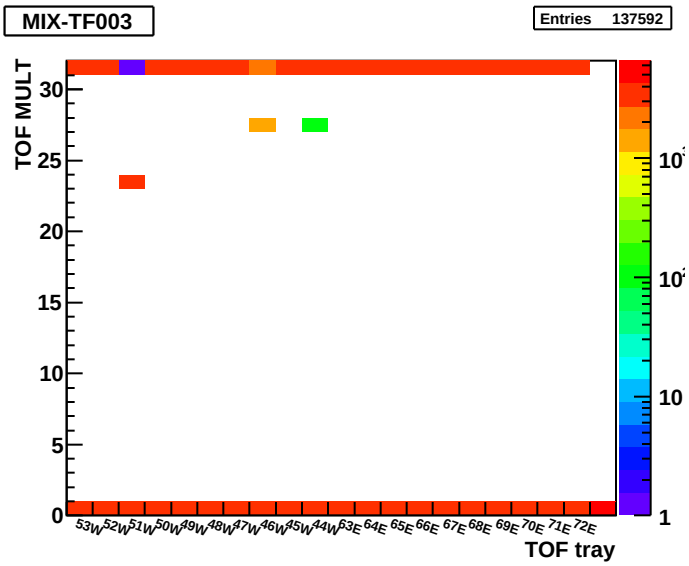

Barrel Jet Patches
Entries 58968
JP ADC
JP ID

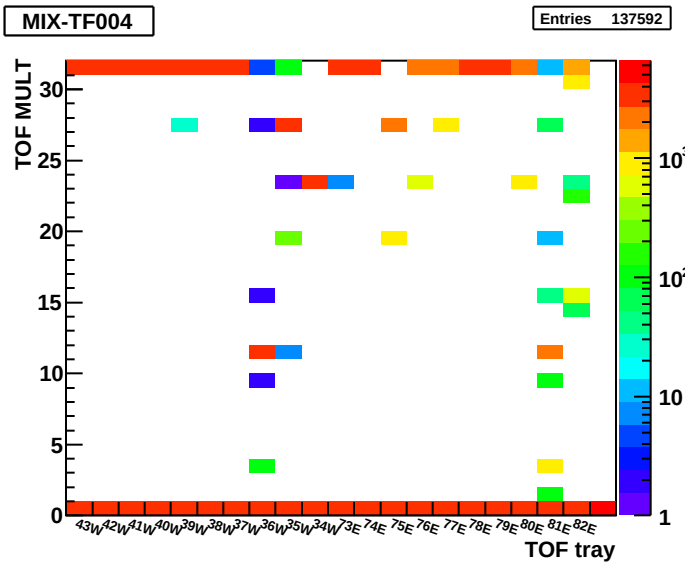

Endcap Jet Patches
Entries 19656
JP ADC
JP ID

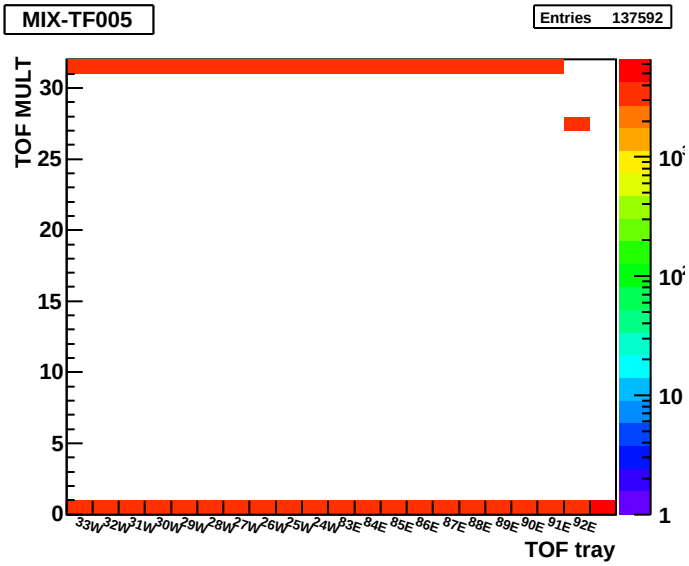

Hybrid Jet Patches
Entries 6552
JP ADC
JP ID

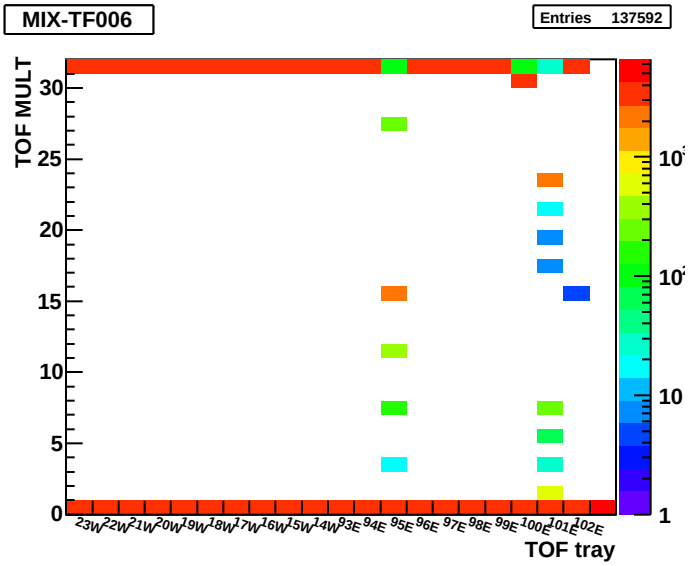

MIX-TF001
Entries 137592
TOF MULT
TOF tray

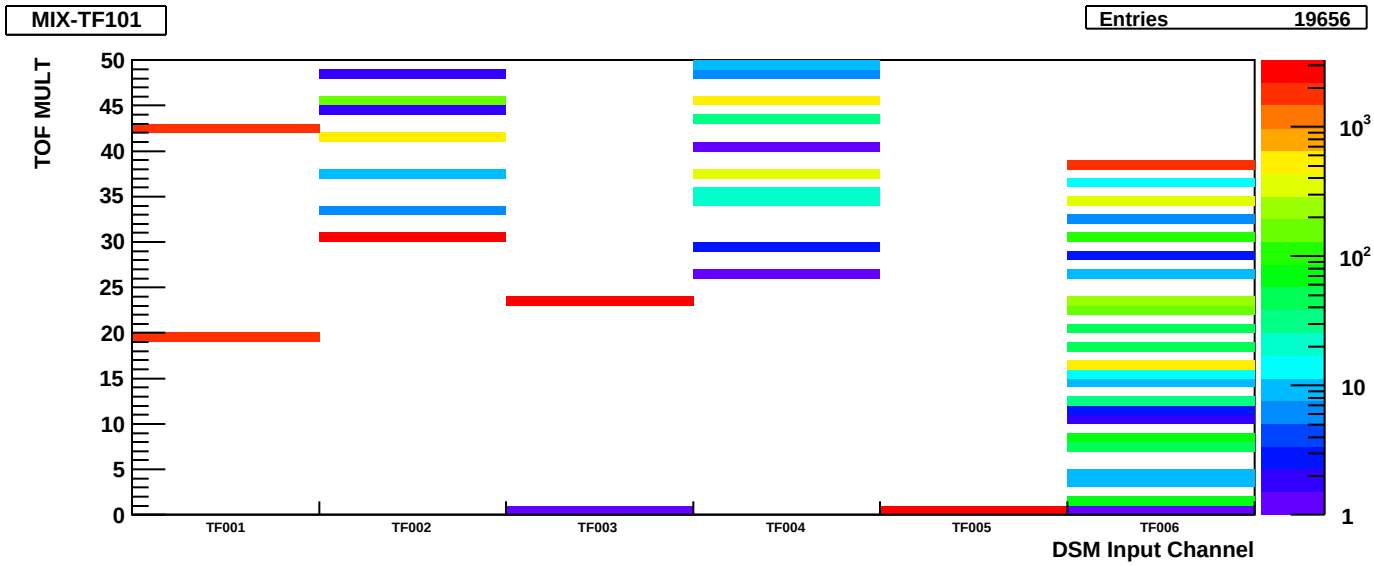

MIX-TF002
Entries 137592
TOF MULT
TOF tray

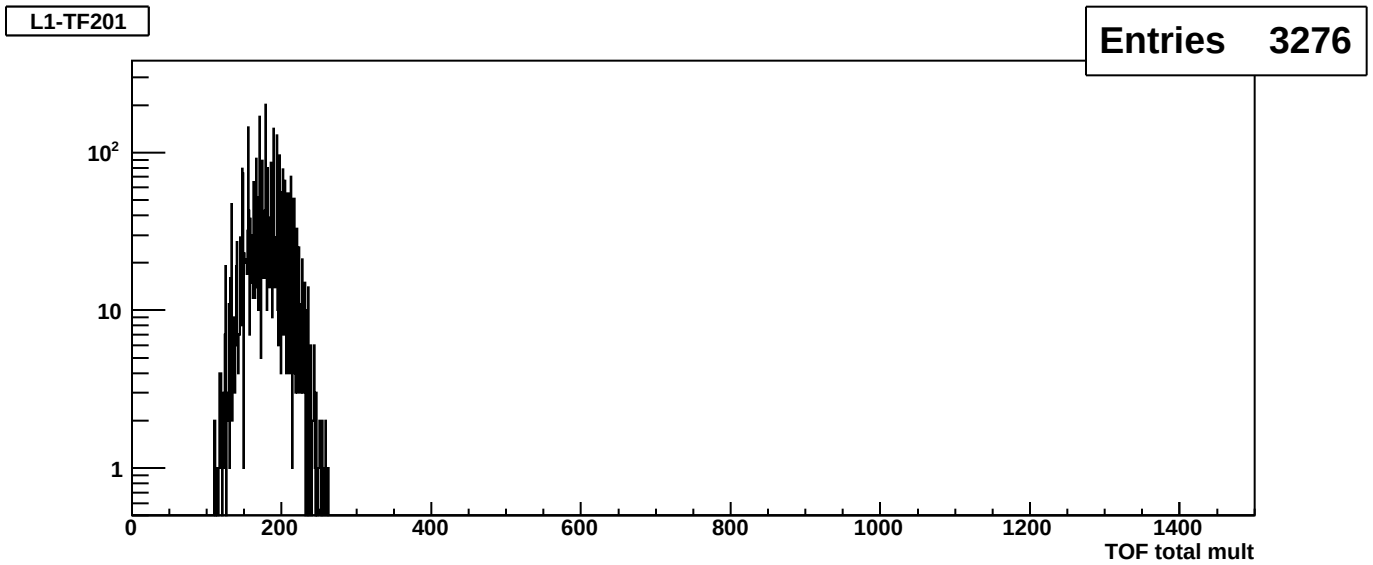

MIX-TF003
Entries 137592
TOF MULT
TOF tray

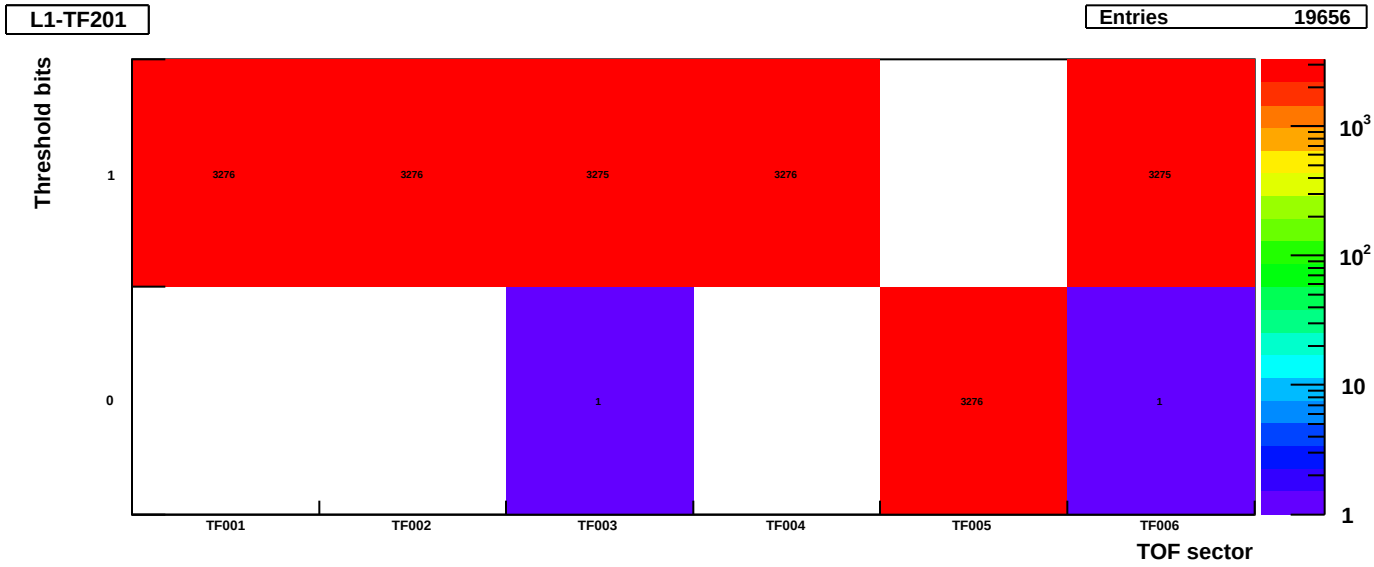

MIX-TF004
Entries 137592
TOF MULT
TOF tray

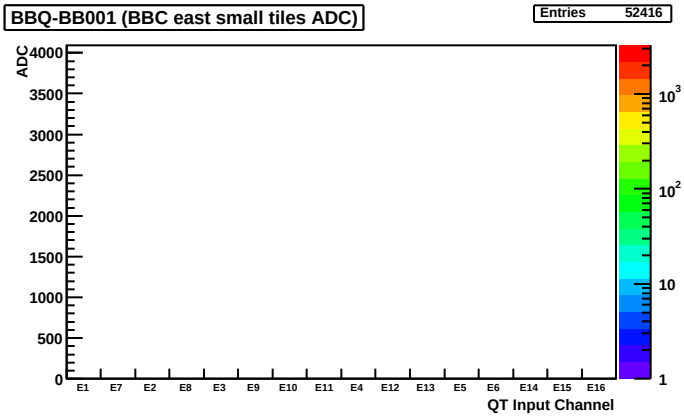

MIX-TF005
Entries 137592
TOF MULT
TOF tray

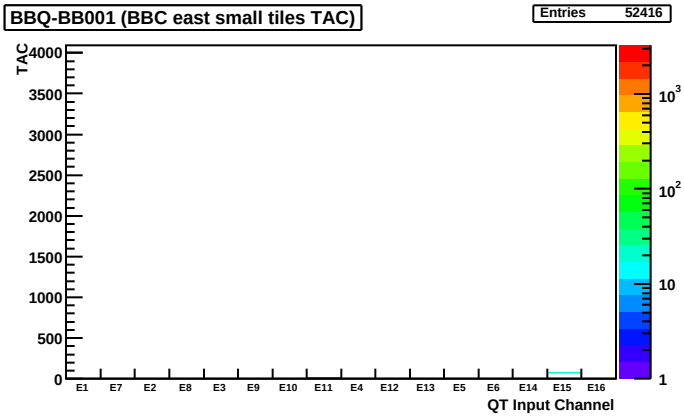

MIX-TF006
Entries 137592
TOF MULT
TOF tray

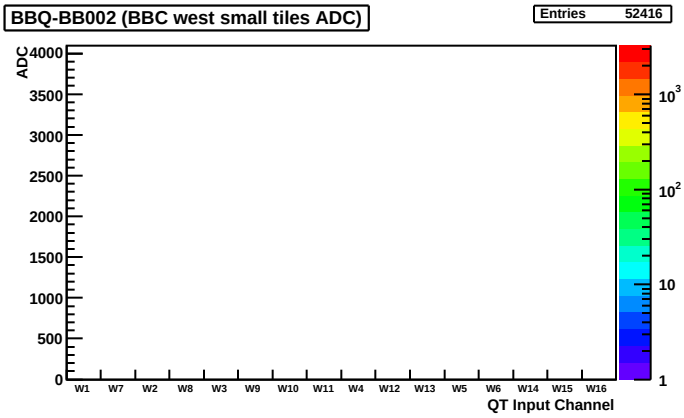

MIX-TF101
Entries 19656
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3
10^2
10
1

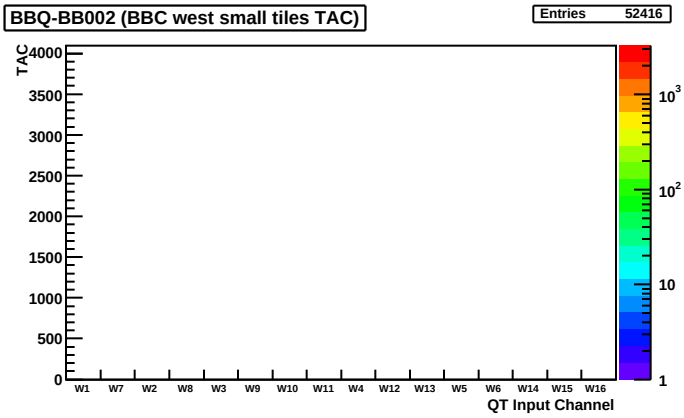

L1-TF201
Entries 3276
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

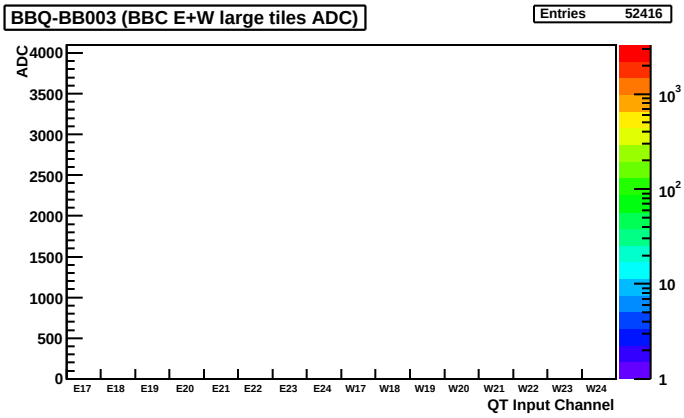

L1-TF201
Entries 19656
Threshold bits
1
0
3276
3276
3275
3276
3275
1
3276
1
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^3
10^2
10
1

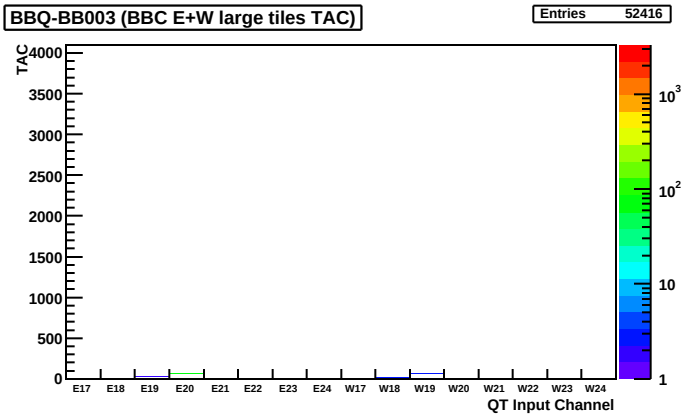

BBQ-BB001 (BBC east small tiles ADC)
Entries 52416
ADC
QT Input Channel

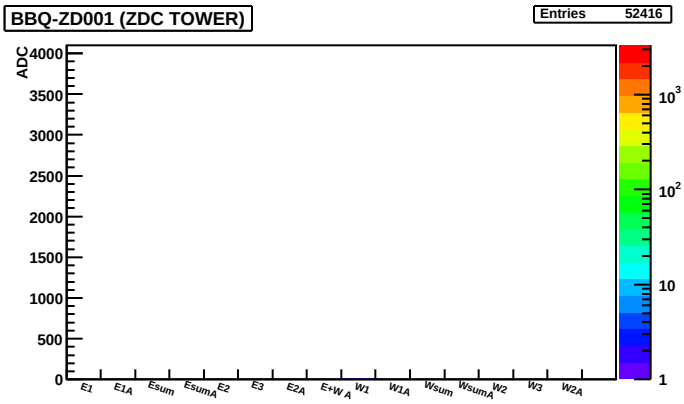

BBQ-BB001 (BBC east small tiles TAC)
Entries 52416
TAC
QT Input Channel

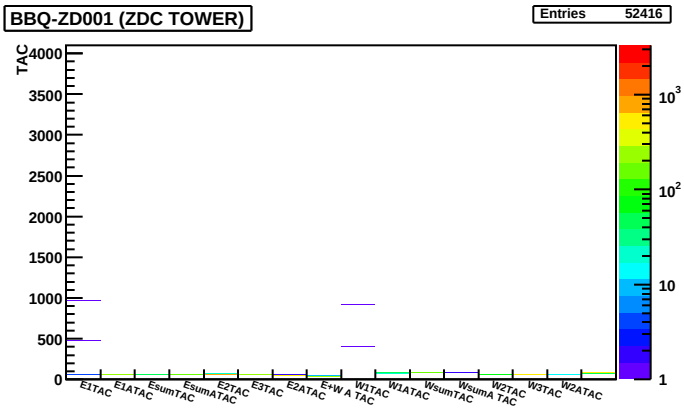

BBQ-BB002 (BBC west small tiles ADC)
Entries 52416
ADC
QT Input Channel

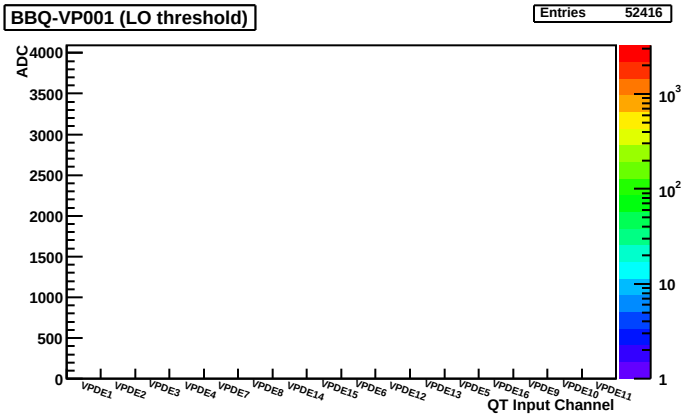

BBQ-BB002 (BBC west small tiles TAC)
Entries 52416
TAC
QT Input Channel

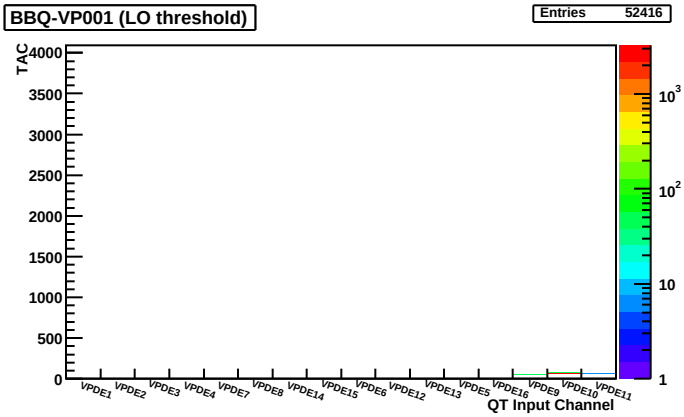

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 52416
ADC
QT Input Channel

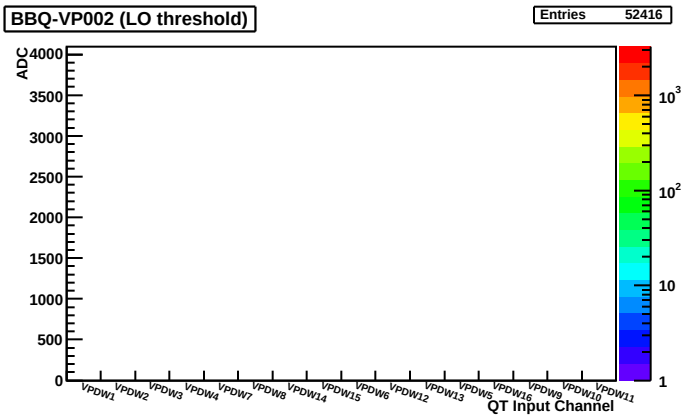

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 52416
TAC
QT Input Channel

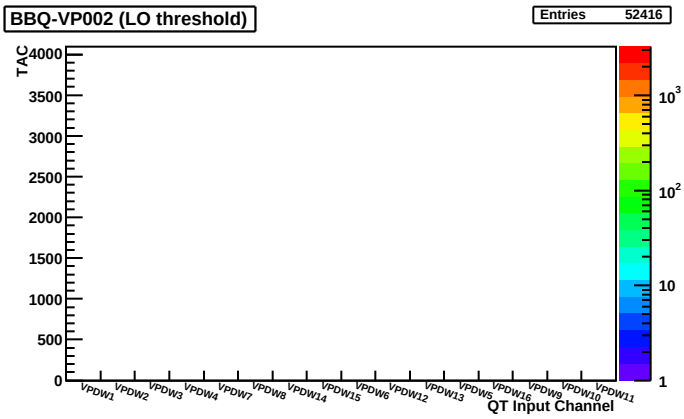

BBQ-ZD001 (ZDC TOWER)
Entries 52416
ADC

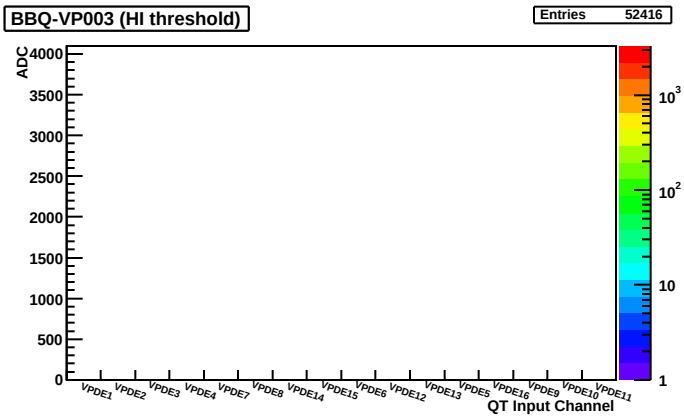

BBQ-ZD001 (ZDC TOWER)
Entries 52416
TAC

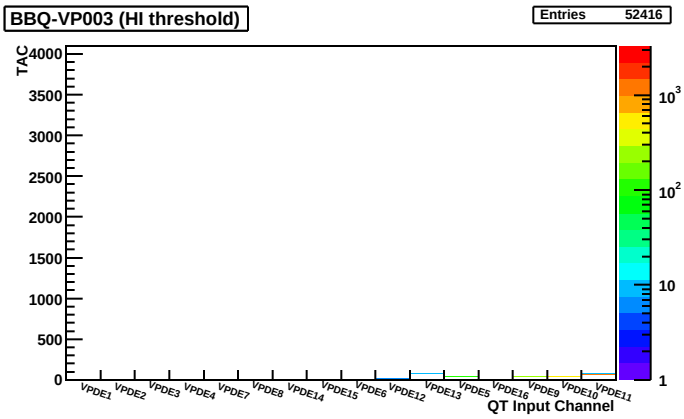

BBQ-VP001 (LO threshold)
Entries 52416
ADC
QT Input Channel

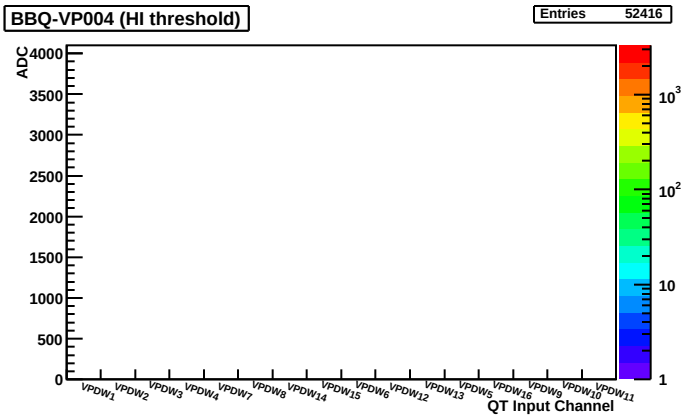

BBQ-VP001 (LO threshold)
Entries 52416
TAC
QT Input Channel

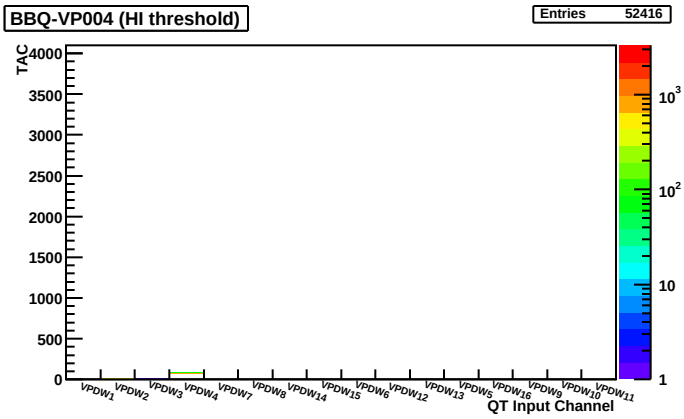

BBQ-VP002 (LO threshold)
Entries 52416
ADC
QT Input Channel

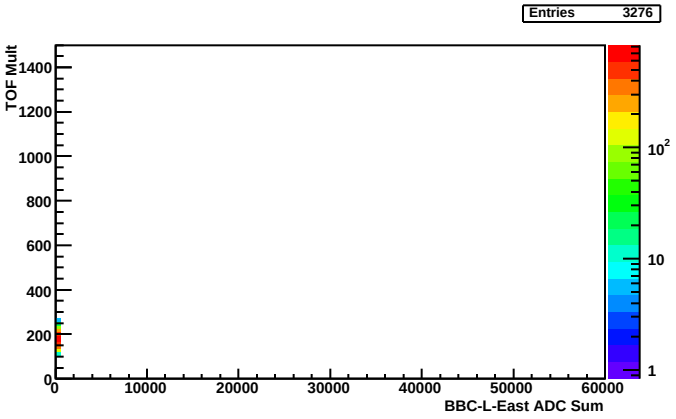

BBQ-VP002 (LO threshold)
Entries 52416
TAC
QT Input Channel

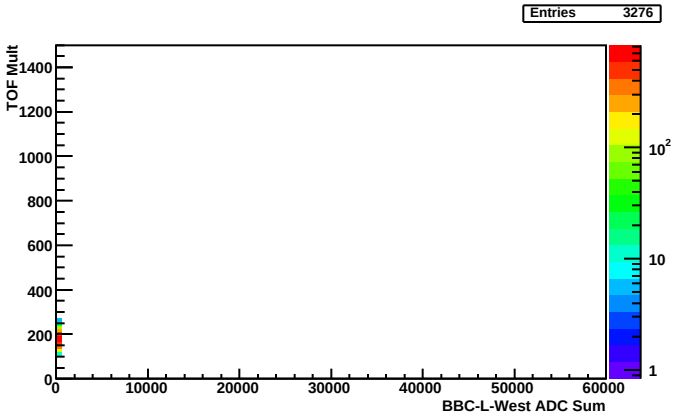

BBQ-VP003 (HI threshold)
Entries 52416
ADC
QT Input Channel

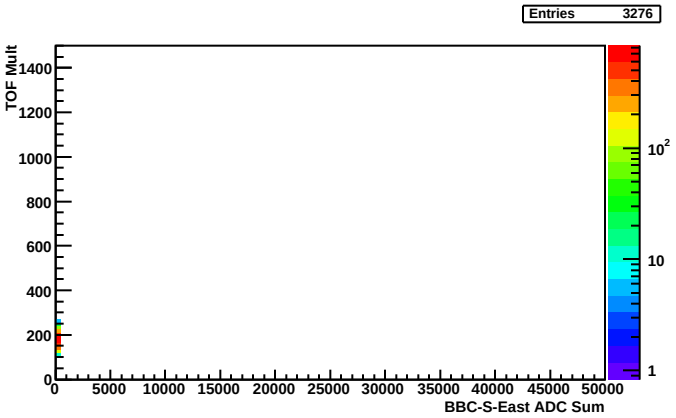

BBQ-VP003 (HI threshold)
Entries 52416
TAC
QT Input Channel

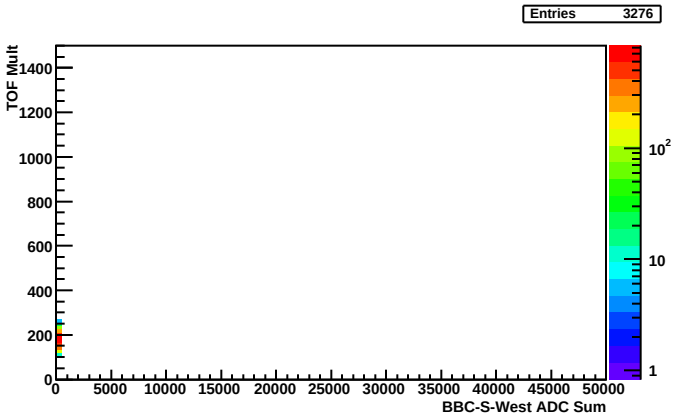

BBQ-VP004 (HI threshold)
Entries 52416
ADC
QT Input Channel

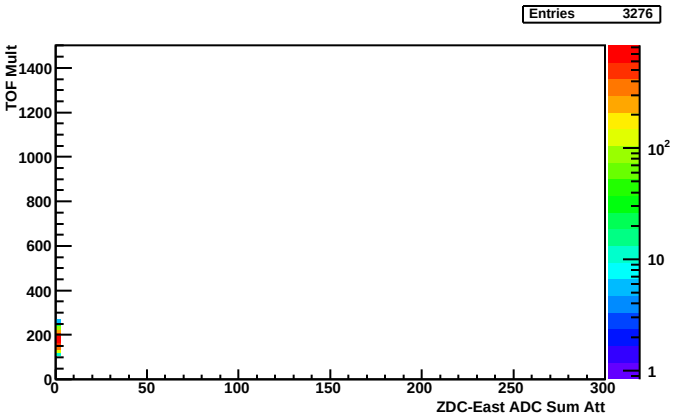

BBQ-VP004 (HI threshold)
Entries 52416
TAC
QT Input Channel

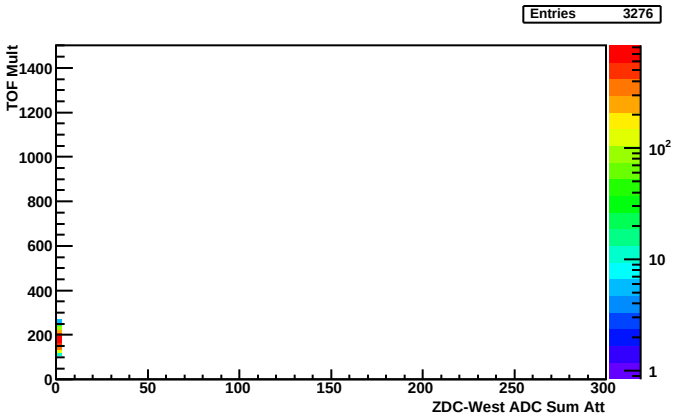

Entries 3276
TOF Mult
BBC-L-East ADC Sum

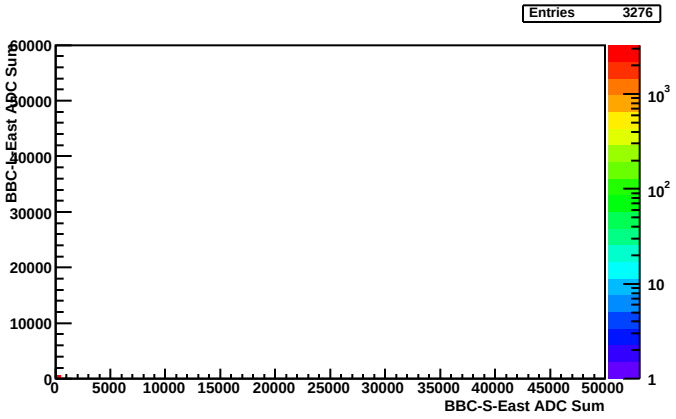

Entries 3276
TOF Mult
BBC-L-West ADC Sum

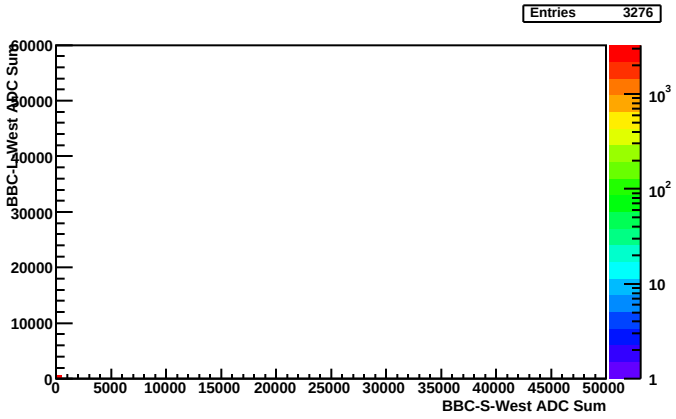

Entries 3276
TOF Mult
BBC-S-East ADC Sum

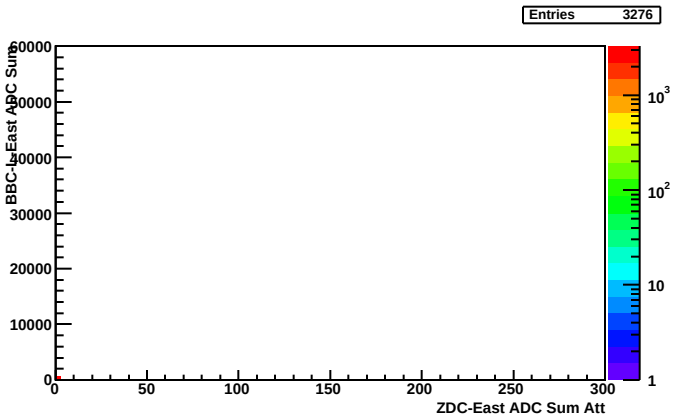

Entries 3276
TOF Mult
BBC-S-West ADC Sum

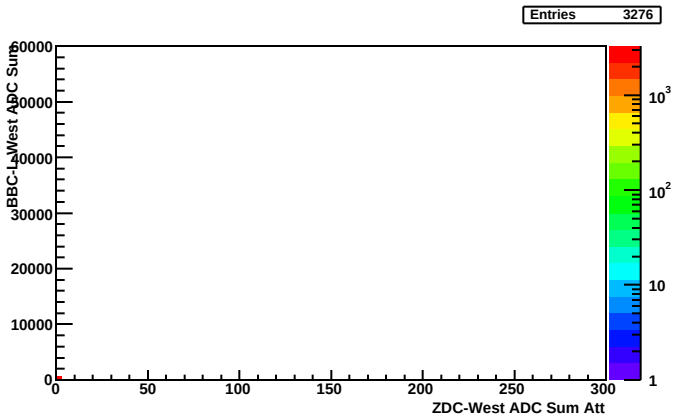

Entries 3276
TOF Mult
ZDC-East ADC Sum Att

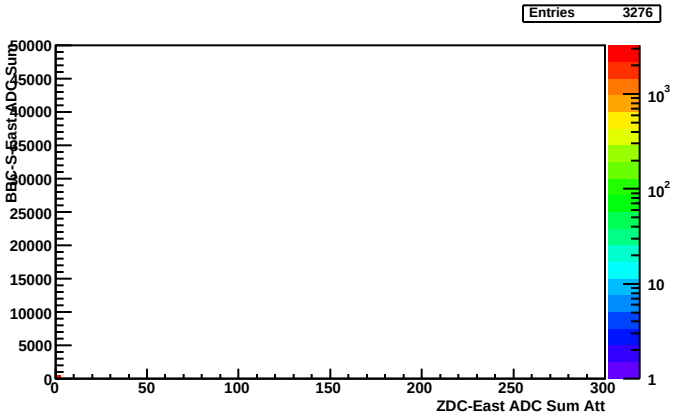

Entries 3276
TOF Mult
ZDC-West ADC Sum Att

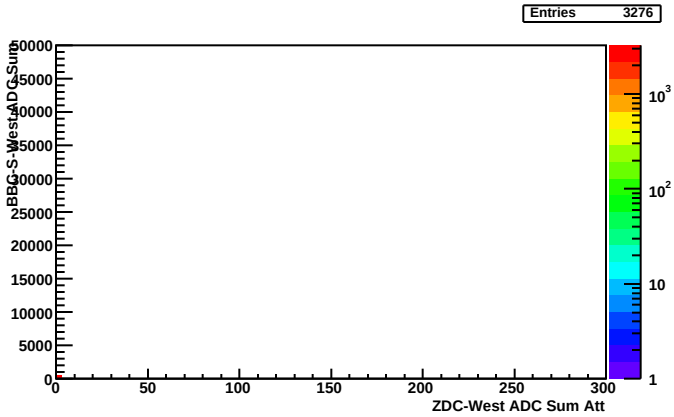

Entries 3276
BBC-L-East ADC Sum
BBC-S-East ADC Sum

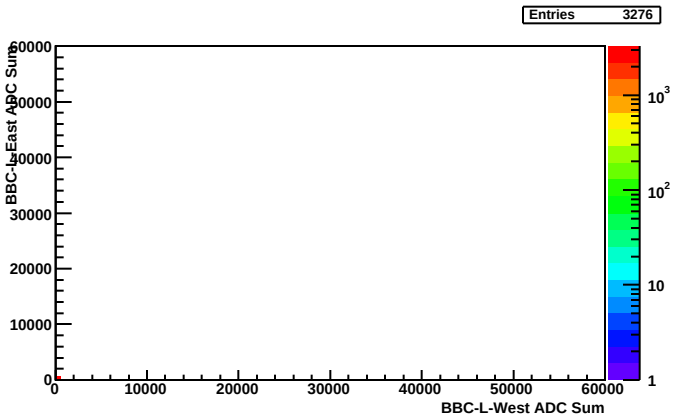

Entries 3276
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 3276
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 3276
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 3276
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 3276
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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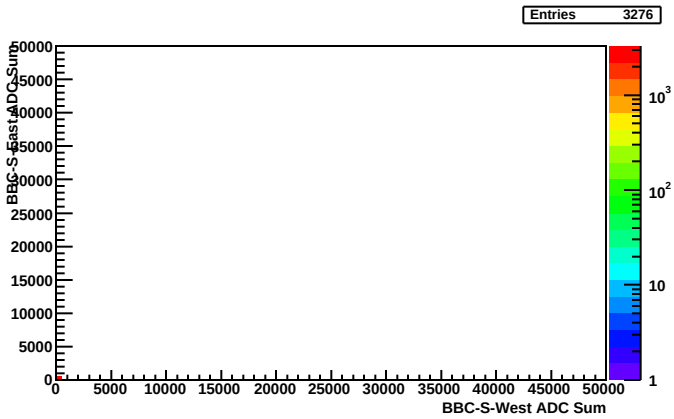
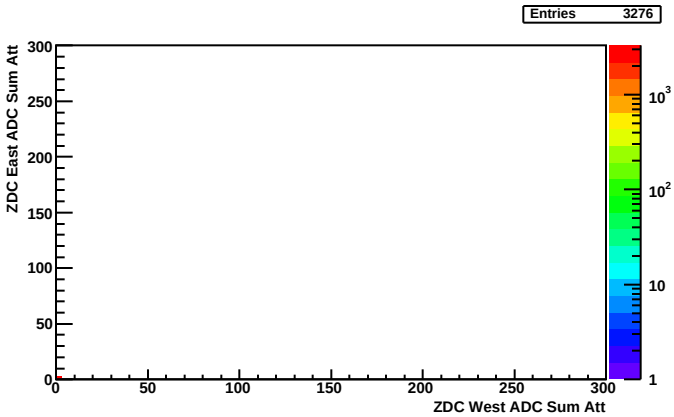
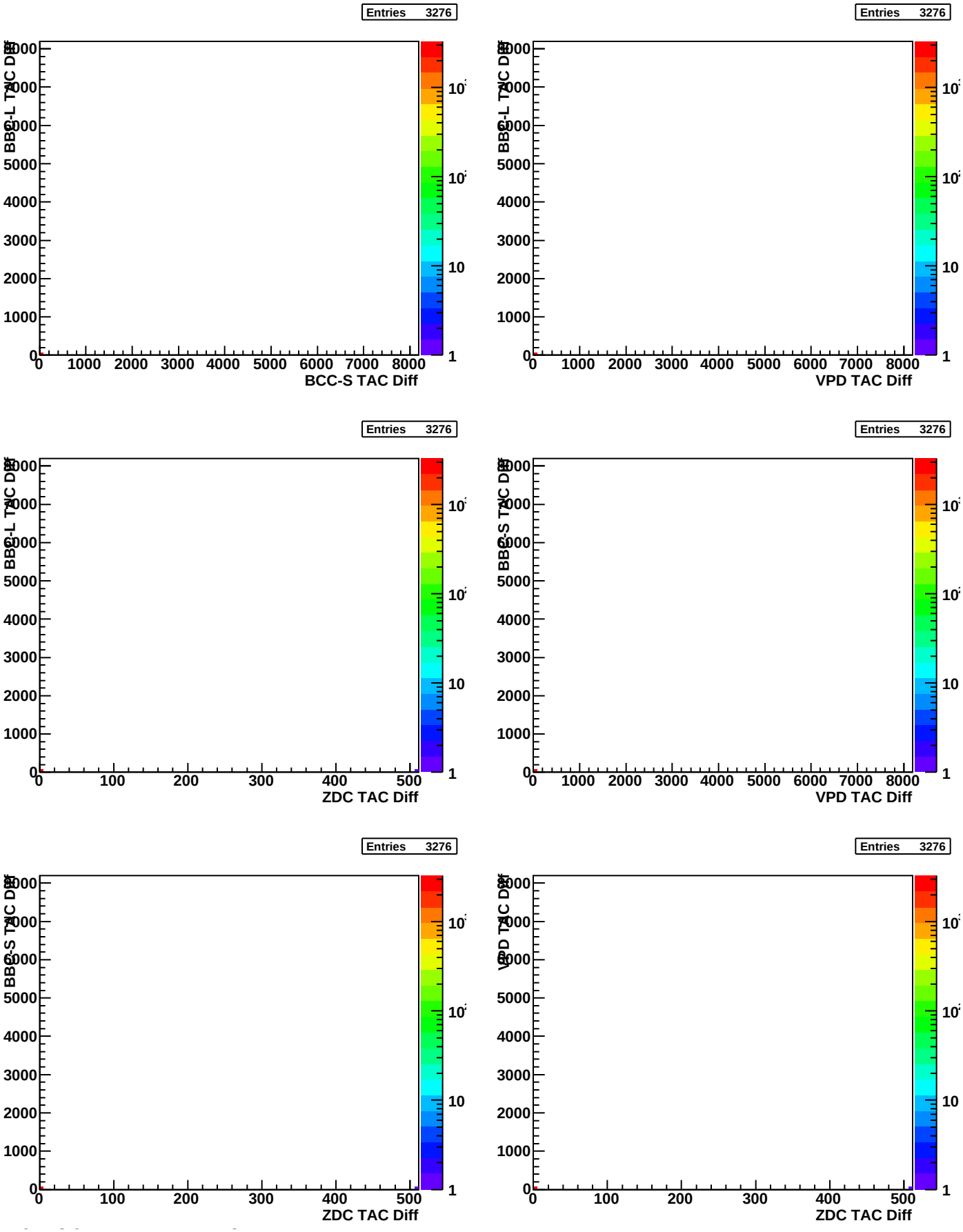
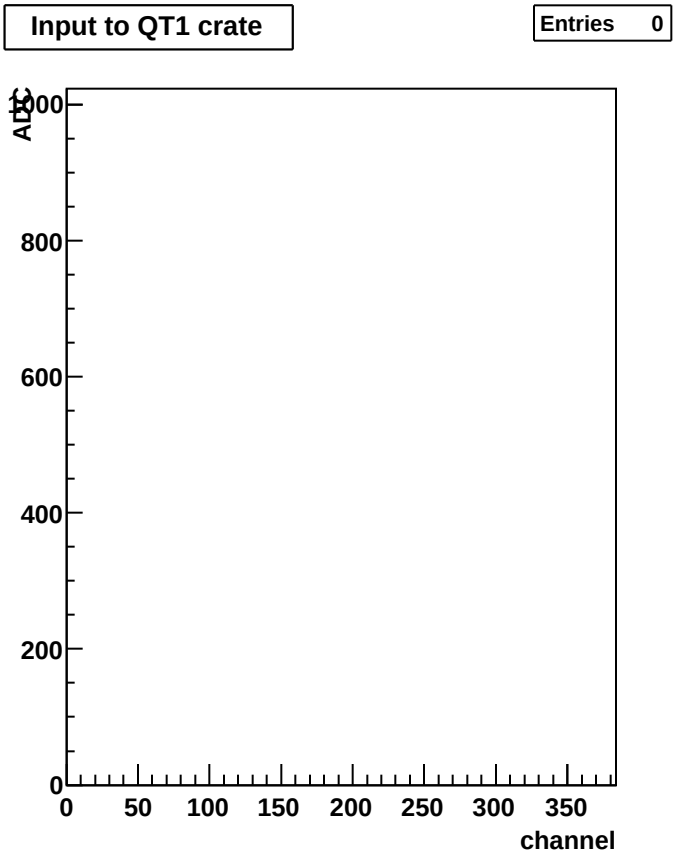
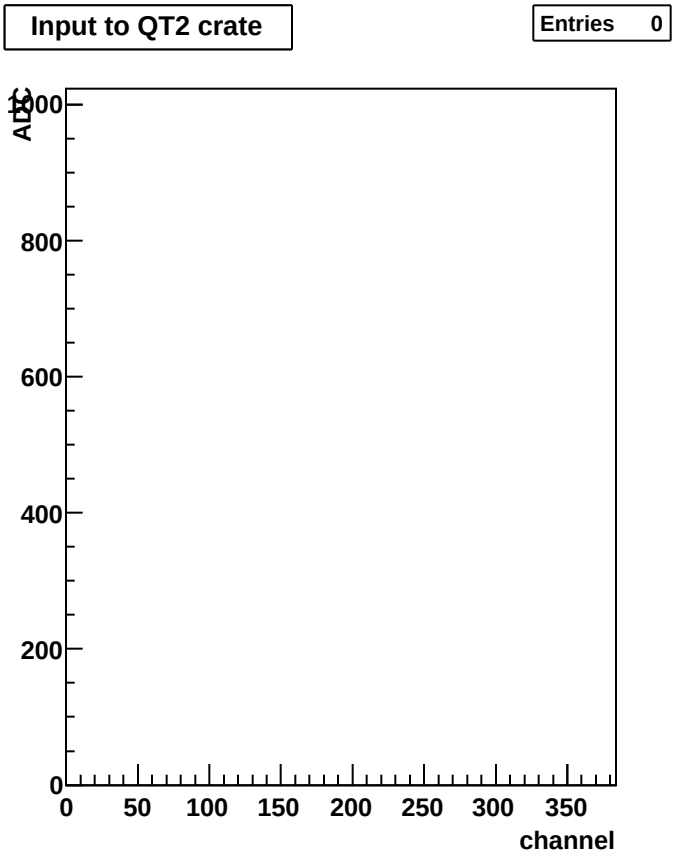
BBC-L-East ADC Sum
BBC-L-West ADC Sum

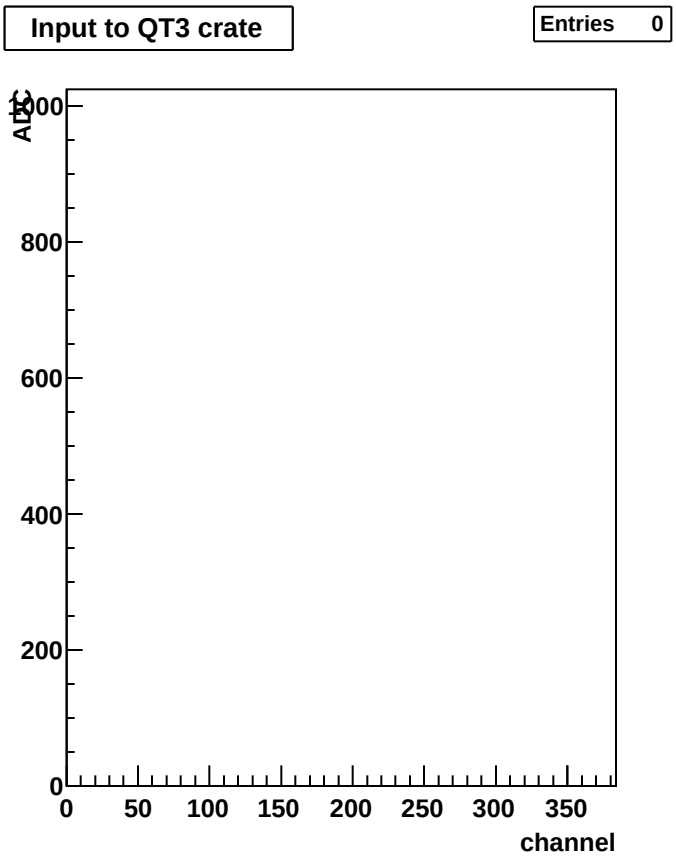

Entries 3276
BBC-S-East ADC Sum
BBC-S-West ADC Sum

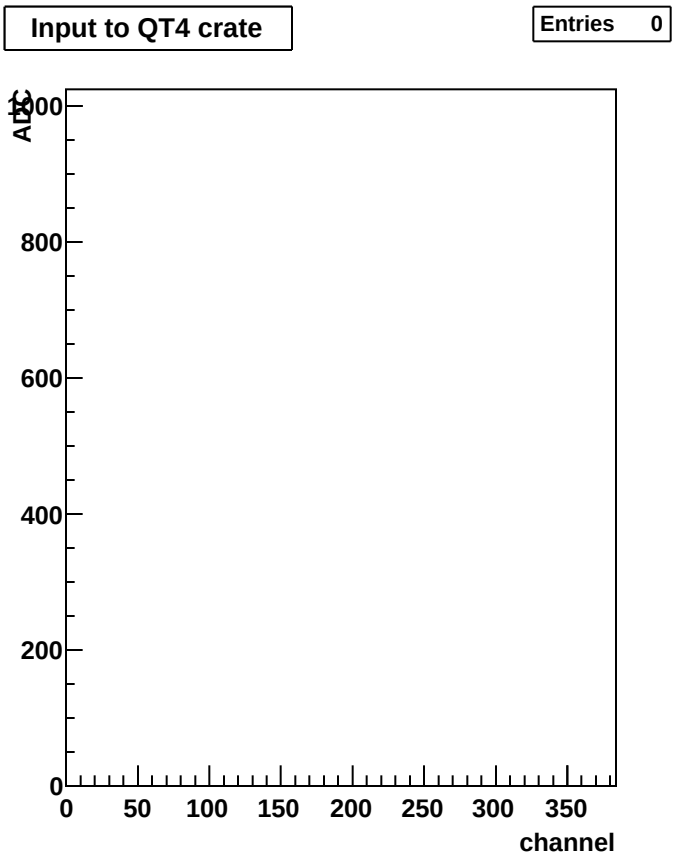

Entries 3276
ZDC East ADC Sum Att
ZDC West ADC Sum Att

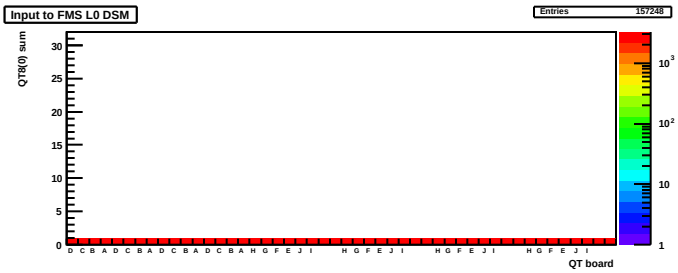

Entries 3276
BBC-L TAC Diff
BCC-S TAC Diff
Entries 3276
BBC-L TAC Diff
VPD TAC Diff
Entries 3276
BBC-L TAC Diff
ZDC TAC Diff
Entries 3276
BBC-S TAC Diff
VPD TAC Diff
Entries 3276
BBC-S TAC Diff
ZDC TAC Diff
Entries 3276
VPD TAC Diff
ZDC TAC Diff

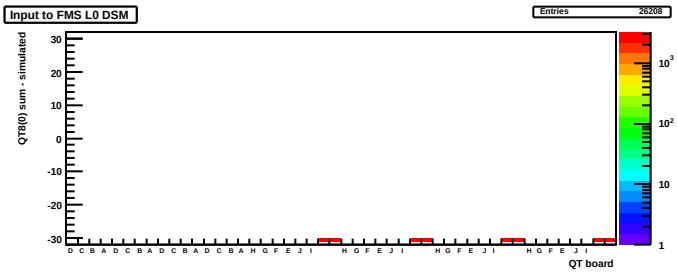

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

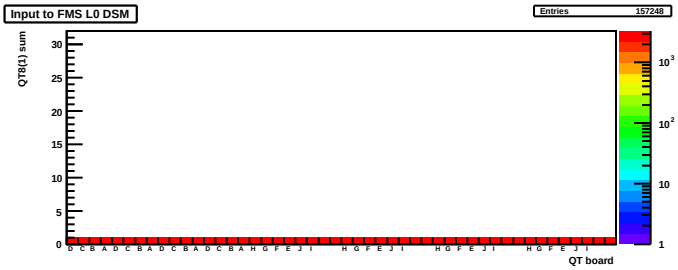

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

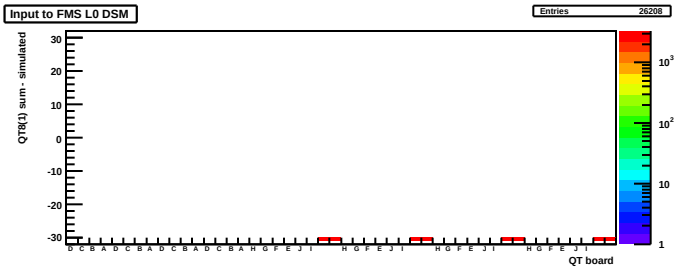

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

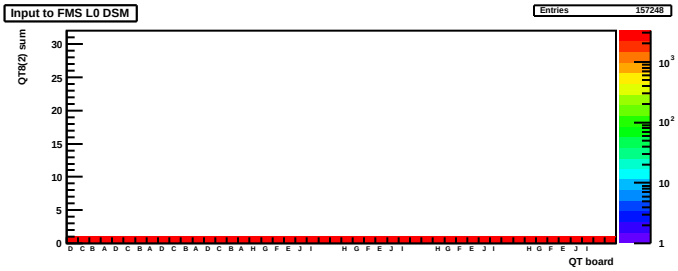

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

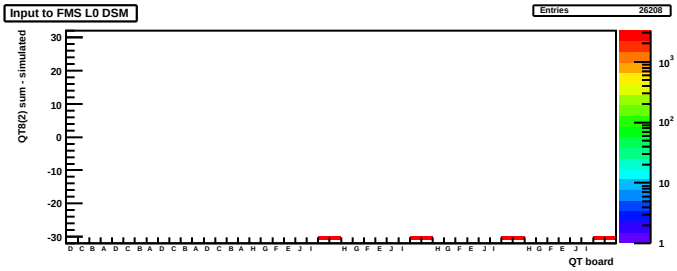

Input to FMS L0 DSM
Entries 157248
QT8(0) sum
QT board

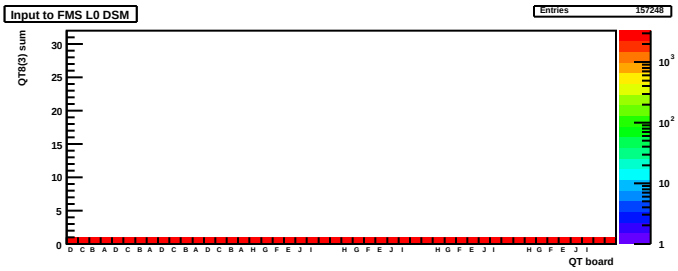

Input to FMS L0 DSM
Entries 26208
QT8(0) sum - simulated
QT board

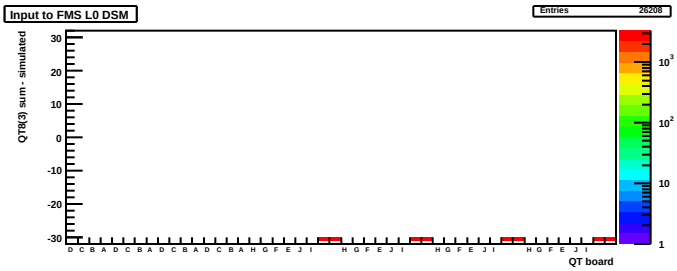

Input to FMS L0 DSM
Entries 157248
QT8(1) sum
QT board

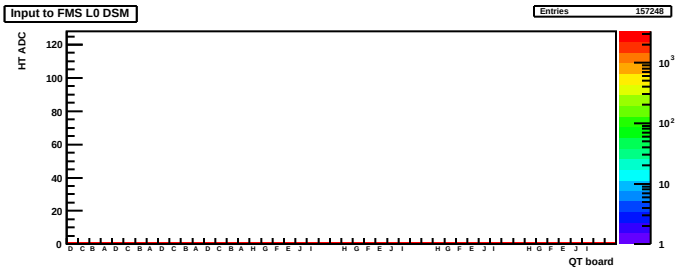

Input to FMS L0 DSM
Entries 26208
QT8(1) sum - simulated
QT board

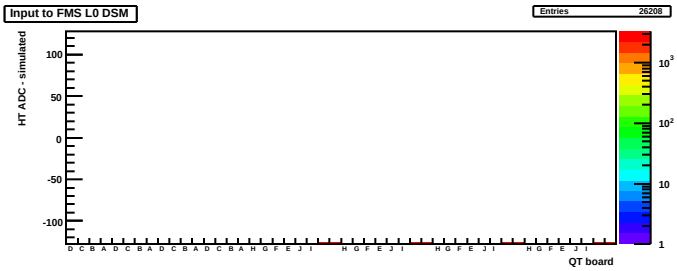

Input to FMS L0 DSM
Entries 157248
QT8(2) sum
QT board

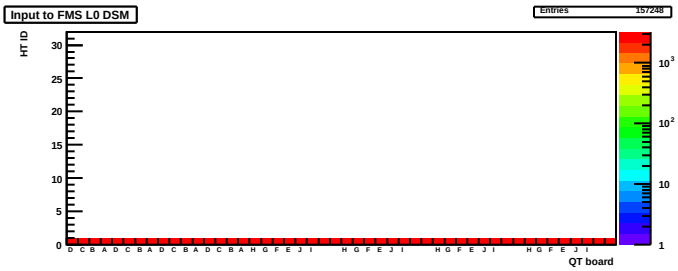

Input to FMS L0 DSM
Entries 26208
QT8(2) sum - simulated
QT board

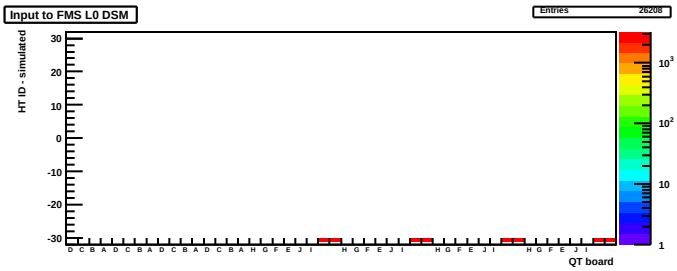

Input to FMS L0 DSM
Entries 157248
QT8(3) sum
QT board

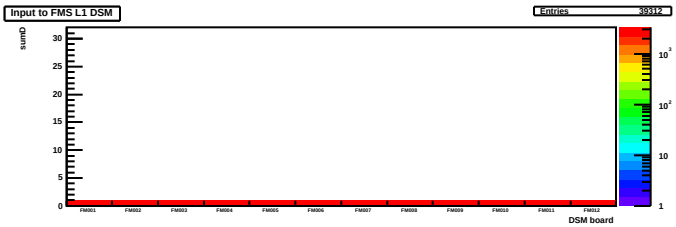

Input to FMS L0 DSM
Entries 26208
QT8(3) sum - simulated
QT board

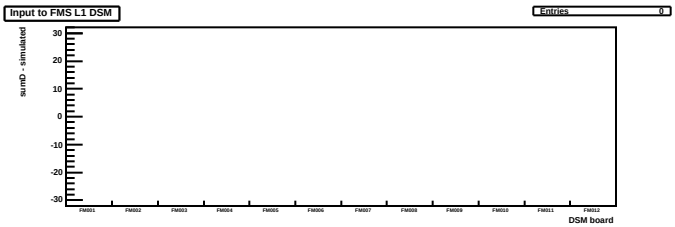

Input to FMS L0 DSM
Entries 157248
HT ADC
QT board

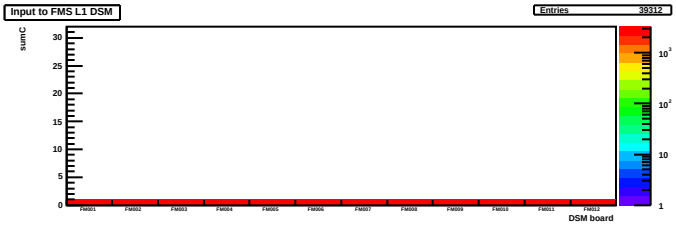

Input to FMS L0 DSM
Entries 26208
HT ADC - simulated
QT board

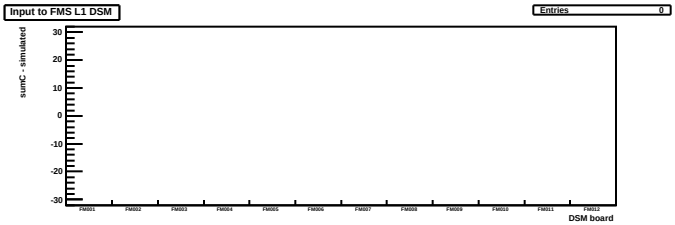

Input to FMS L0 DSM
Entries 157248
HT ID
QT board

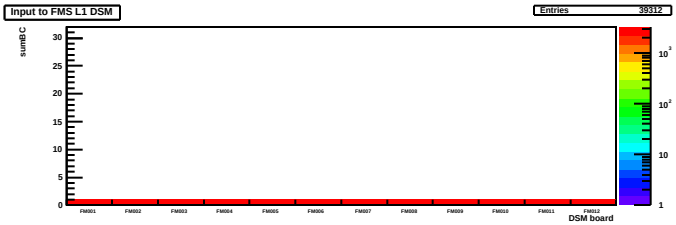

Input to FMS L0 DSM
Entries 26208
HT ID - simulated
QT board

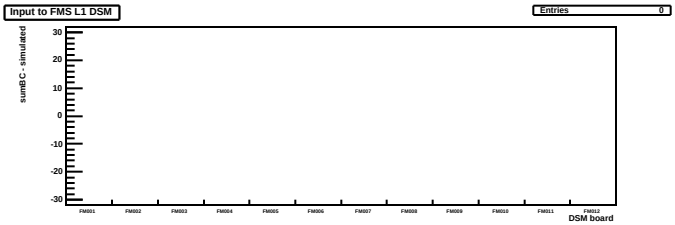

Input to FMS L1 DSM
Entries 39312
sumD
DSM board

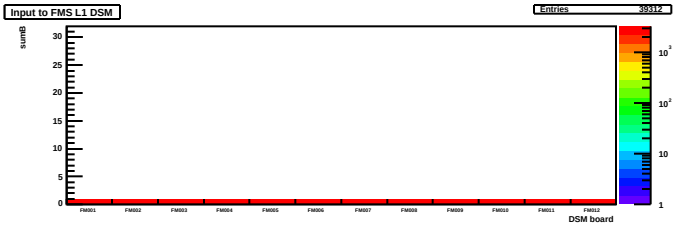

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

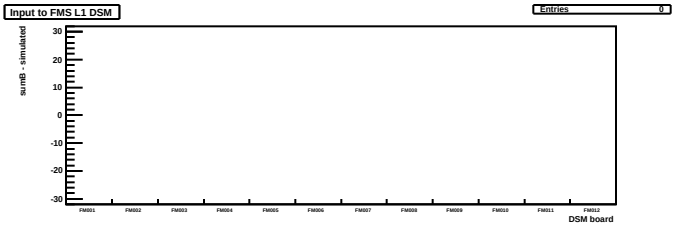

Input to FMS L1 DSM
Entries 39312
sumC
DSM board

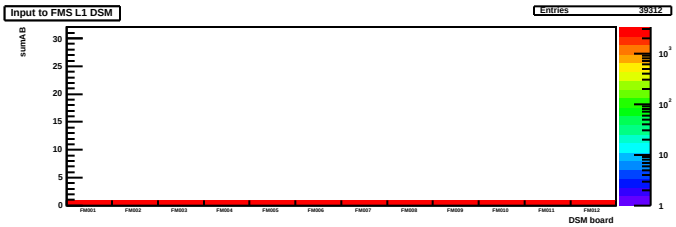

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

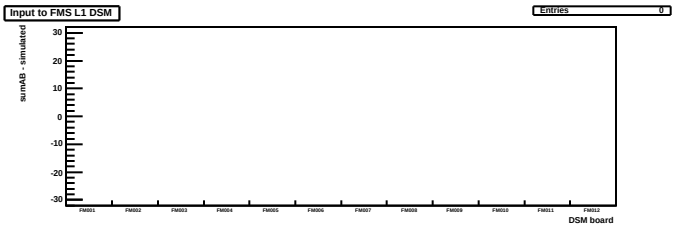

Input to FMS L1 DSM
Entries 39312
sumBC
DSM board

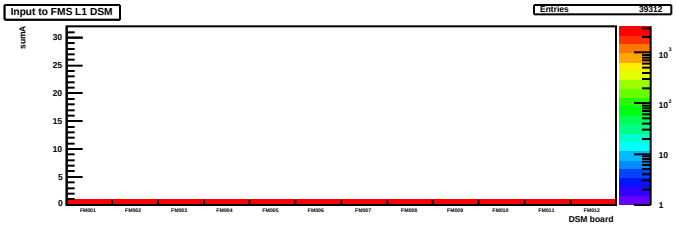

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

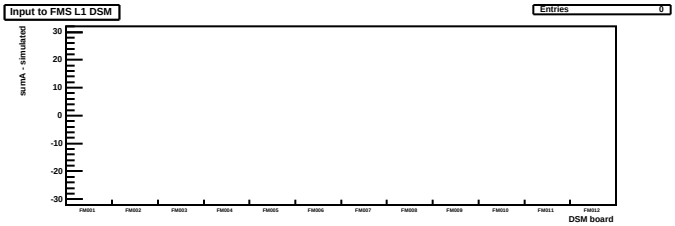

Input to FMS L1 DSM
Entries 39312
sumB
DSM board

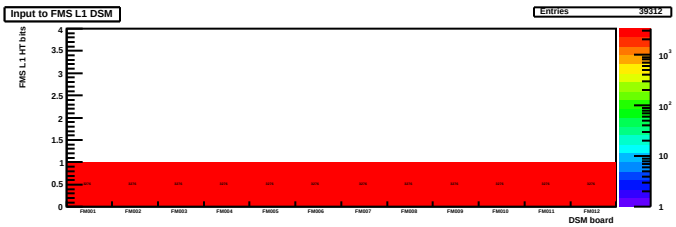

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

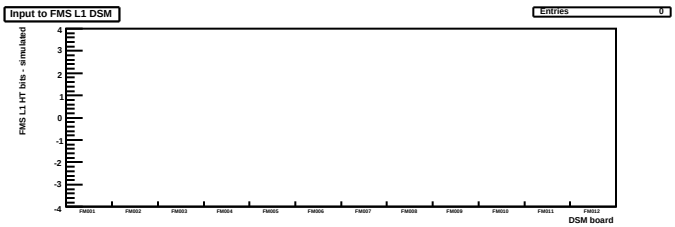

Input to FMS L1 DSM
Entries 39312
sumAB
DSM board

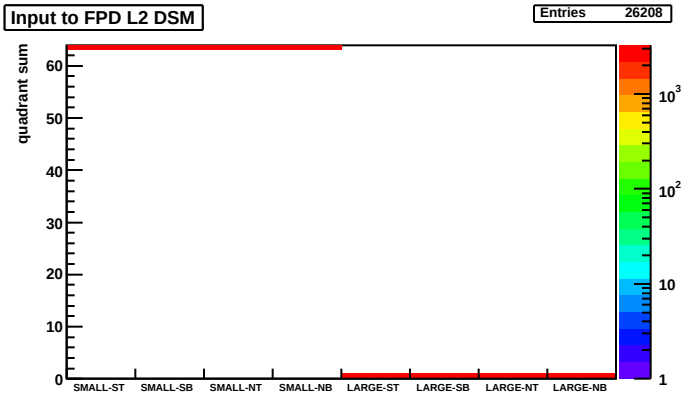

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

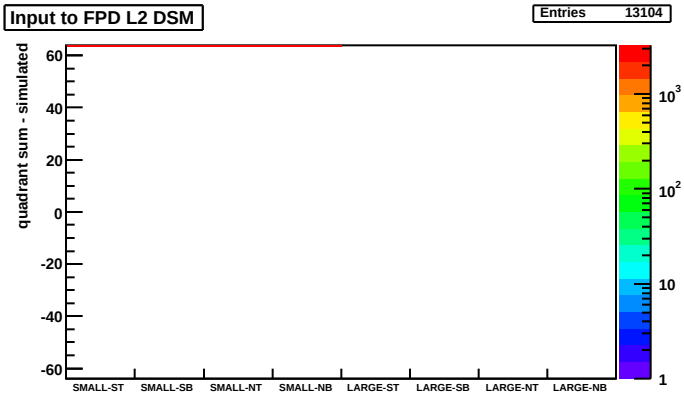

Input to FMS L1 DSM
Entries 39312
sumA
DSM board

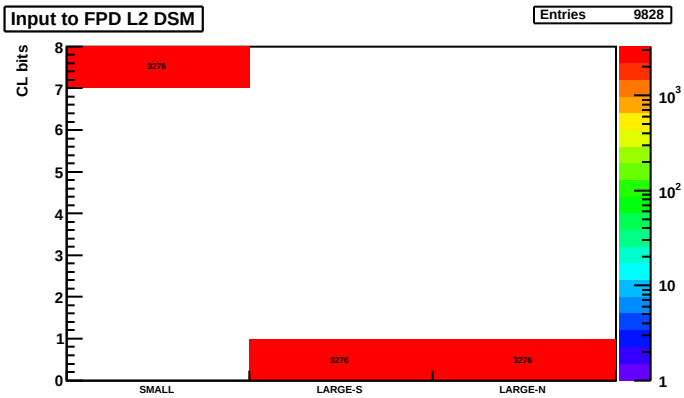

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

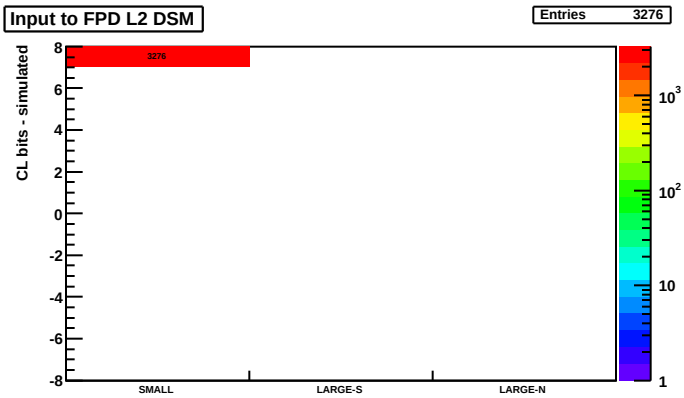

Input to FMS L1 DSM
Entries 39312
FMS L1 HT bits
DSM board

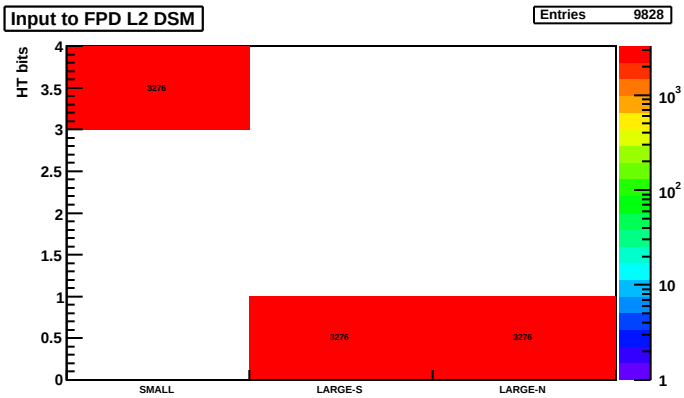

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

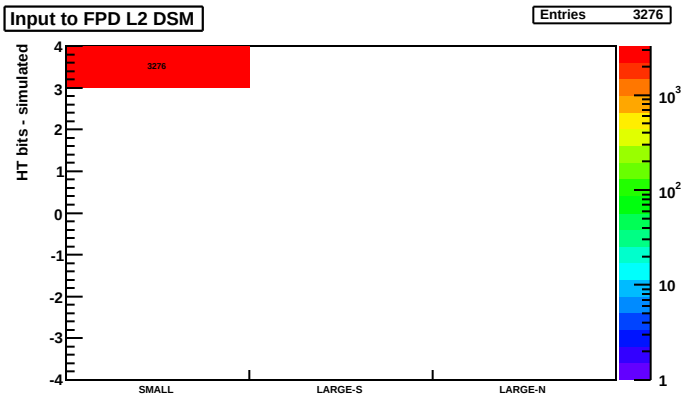

Input to FPD L2 DSM
Entries 26208
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

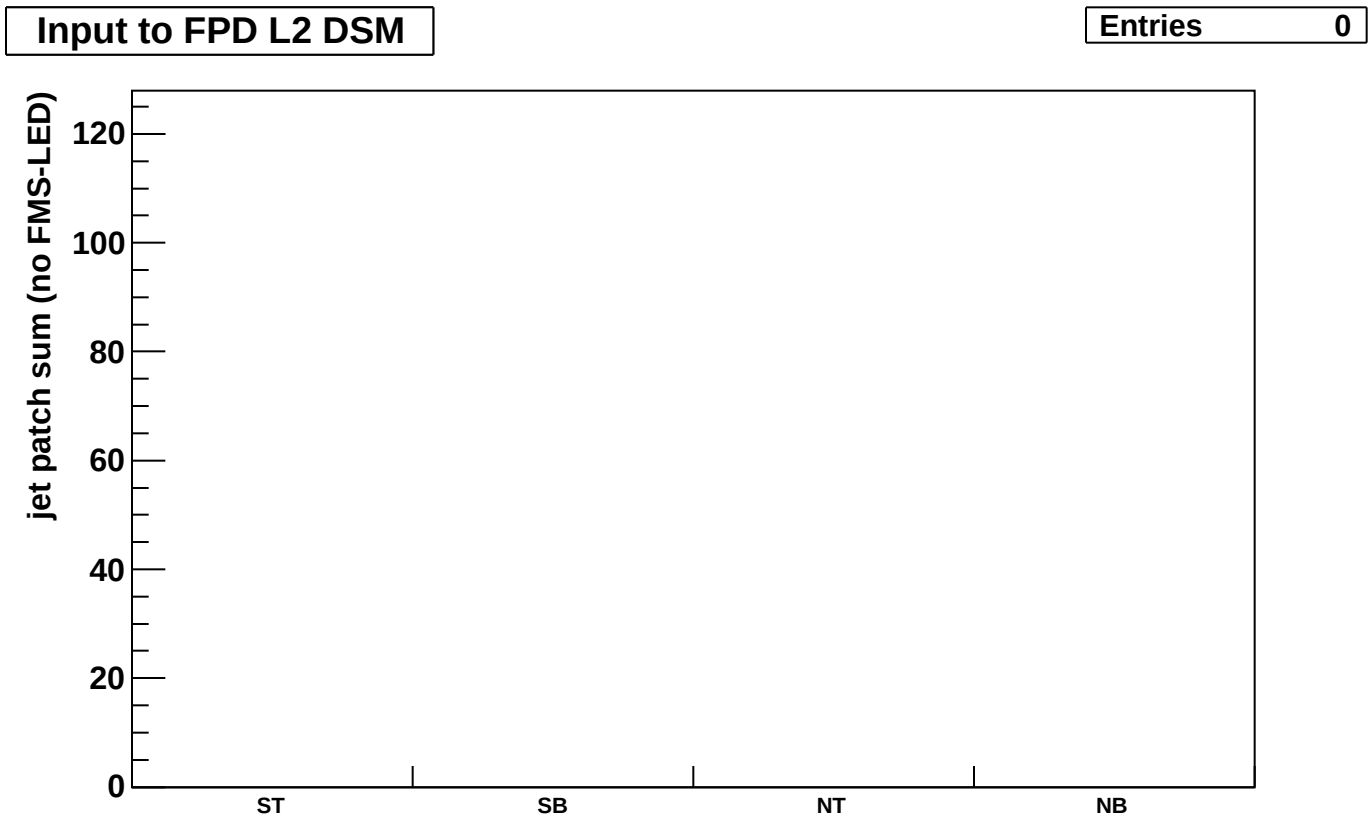

Input to FPD L2 DSM
Entries 13104
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

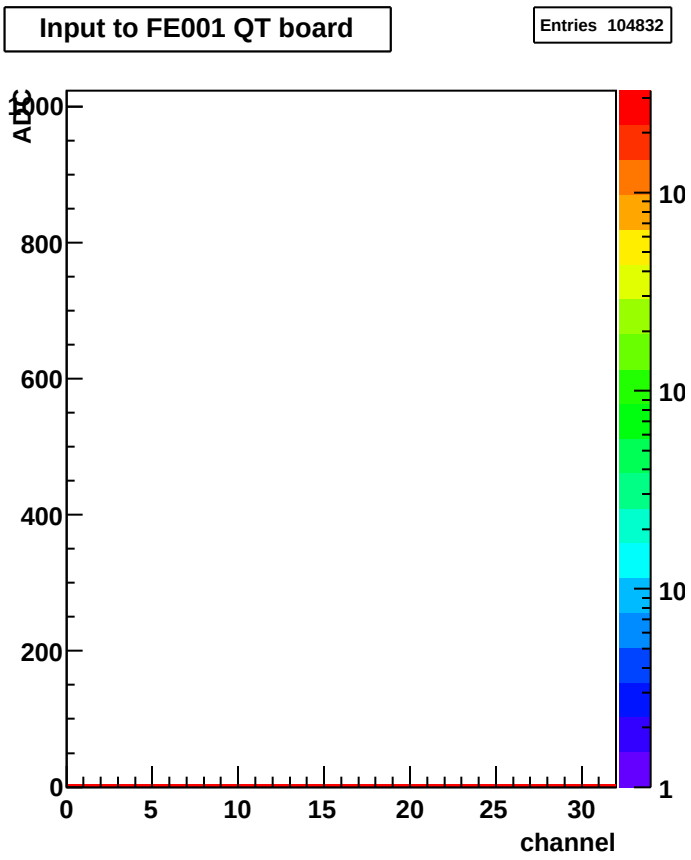

Input to FPD L2 DSM
Entries 9828
CL bits
3276
3276
3276
SMALL
LARGE-S
LARGE-N

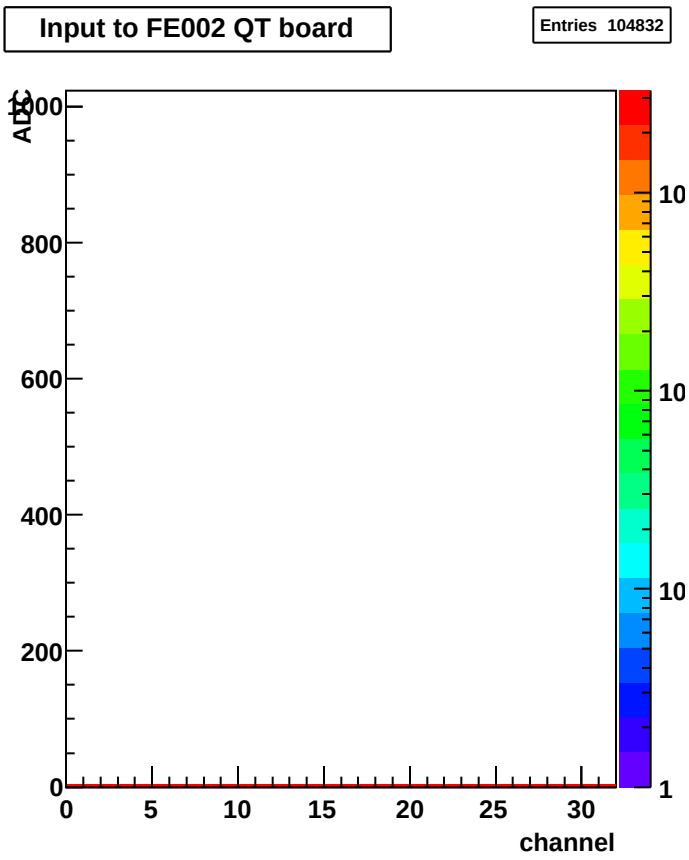

Input to FPD L2 DSM
Entries 3276
CL bits - simulated
3276
SMALL
LARGE-S
LARGE-N

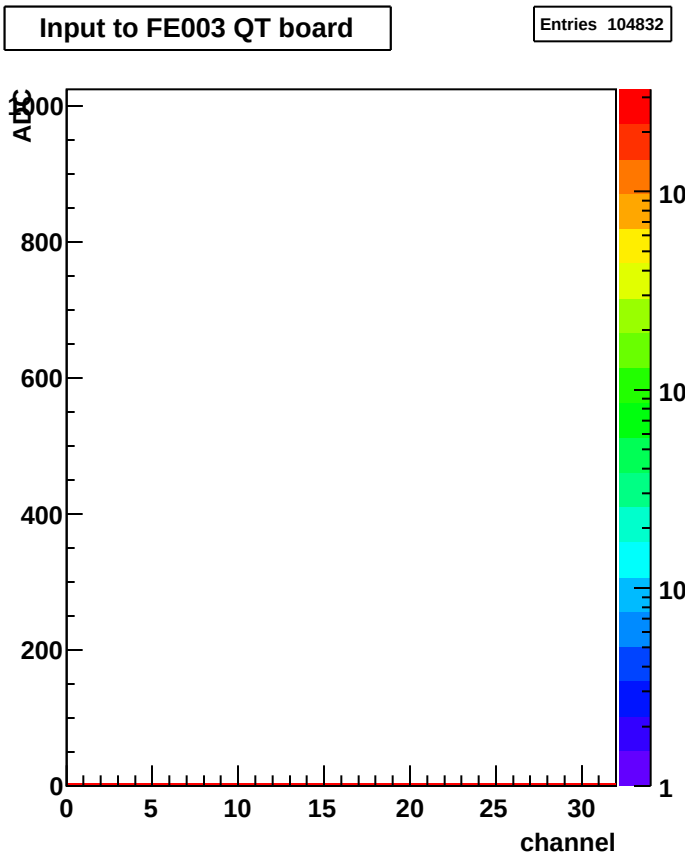

Input to FPD L2 DSM
Entries 9828
HT bits
3276
3276
3276
SMALL
LARGE-S
LARGE-N

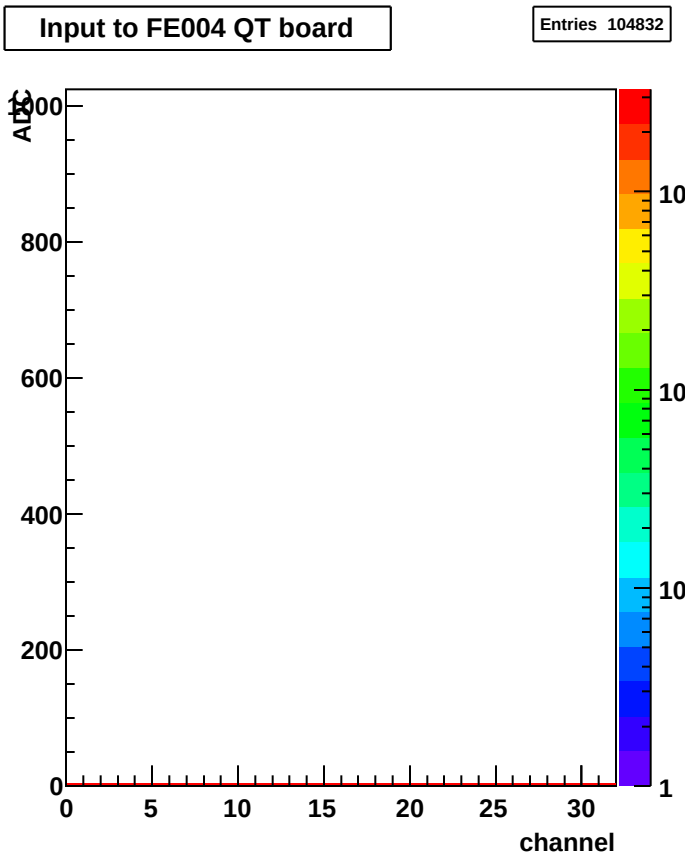

Input to FPD L2 DSM
Entries 3276
HT bits - simulated
3276
SMALL
LARGE-S
LARGE-N

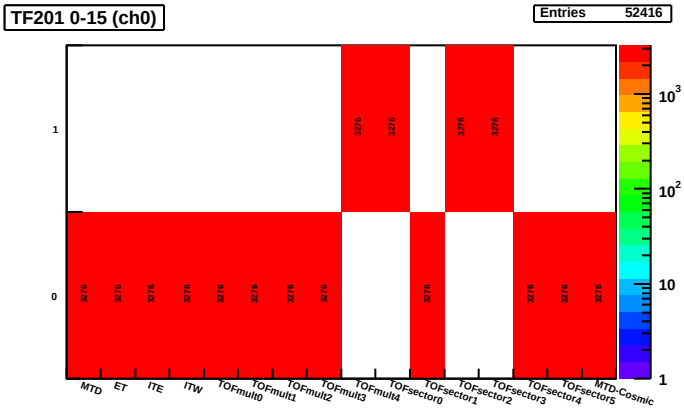

Input to FPD L2 DSM
Entries 0
jet patch sum (no FMS-LED)
120
100
80
60
40
20
0
ST
SB
NT
NB

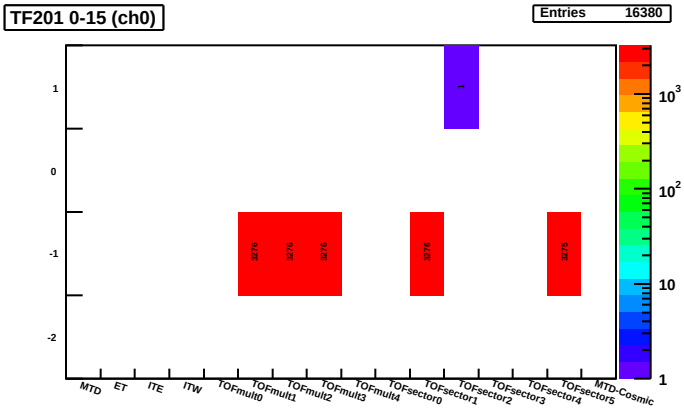

Input to FE001 QT board
Entries 104832
ADC
channel

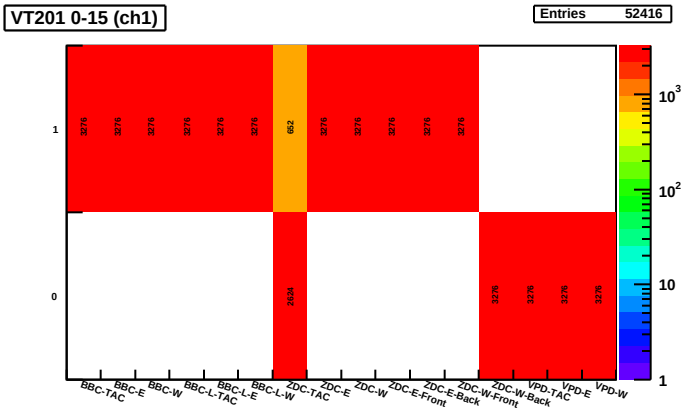

Input to FE002 QT board
Entries 104832
ADC
channel

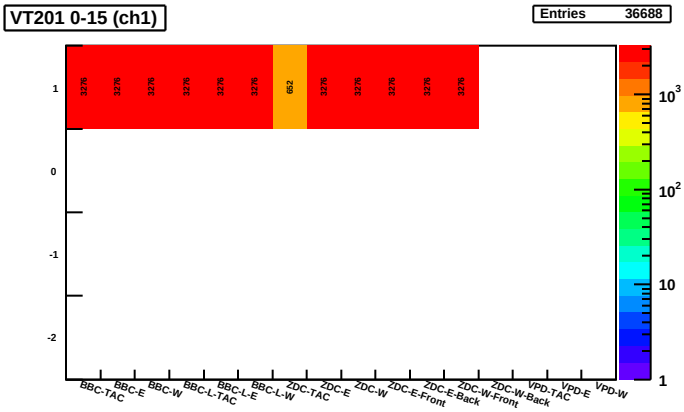

Input to FE003 QT board
Entries 104832
ADC
channel

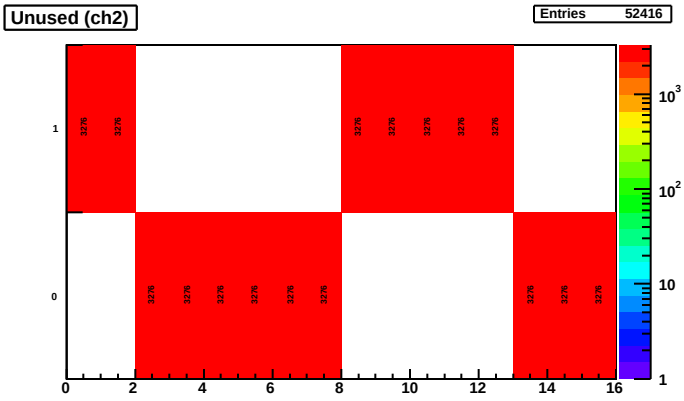

Input to FE004 QT board
Entries 104832
ADC
channel

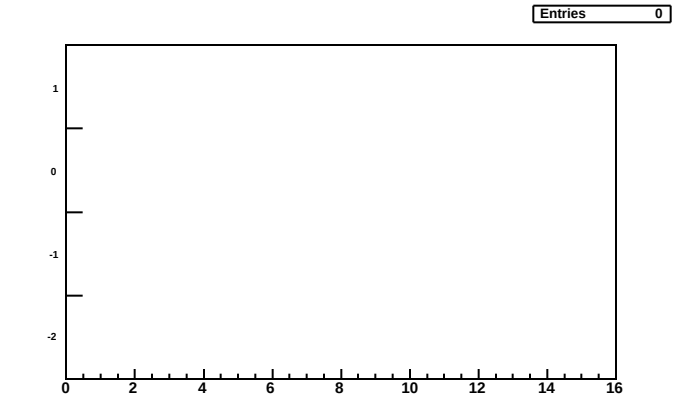

TF201 0-15 (ch0)
Entries 52416
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

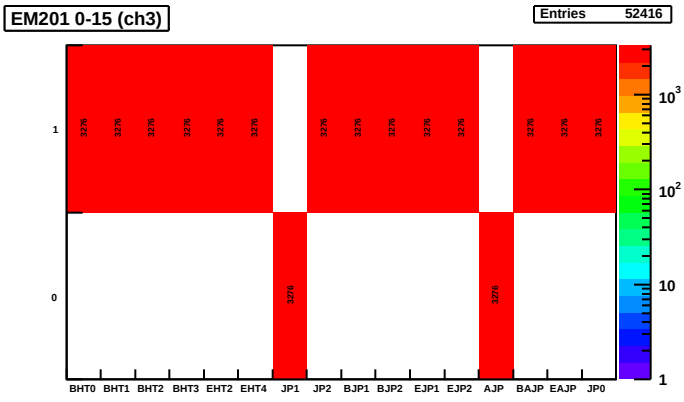

TF201 0-15 (ch0)
Entries 16380
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

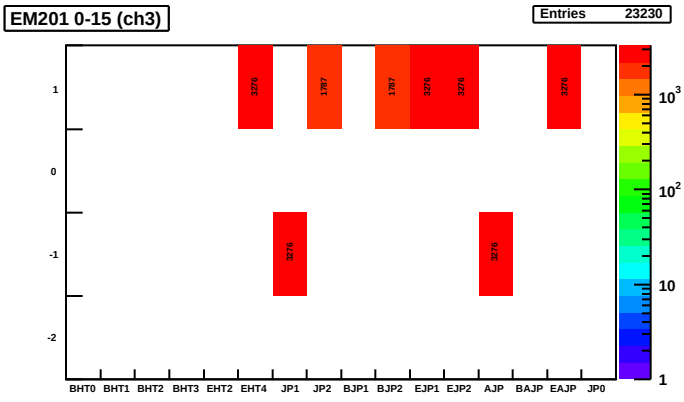

VT201 0-15 (ch1)
Entries 52416
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 36688
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

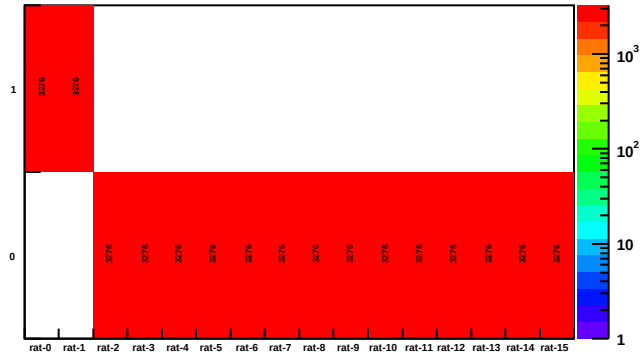

Unused (ch2)
Entries 52416

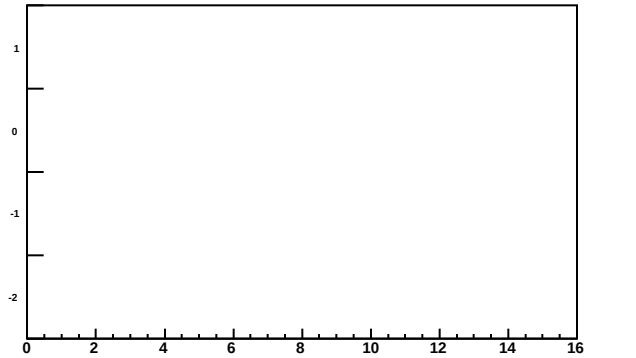

Entries 0


EM201 0-15 (ch3)
Entries 52416
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

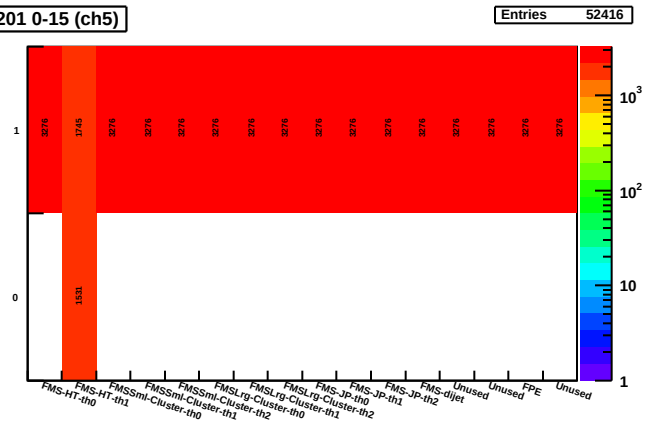

EM201 0-15 (ch3)
Entries 23230
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

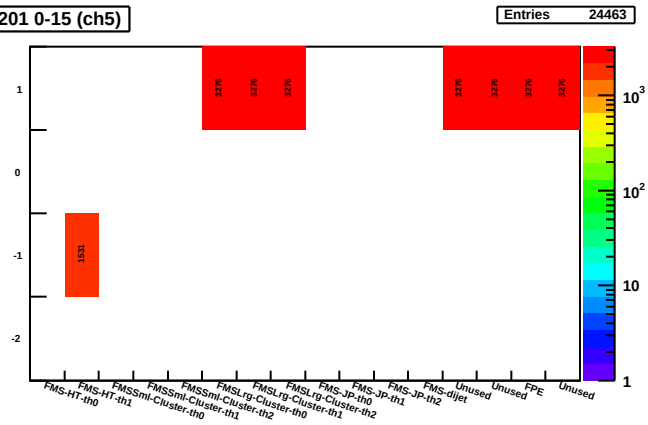




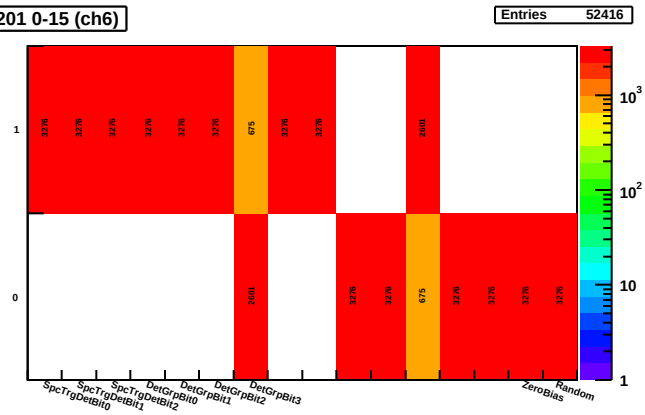
FP201 0-15 (ch5)

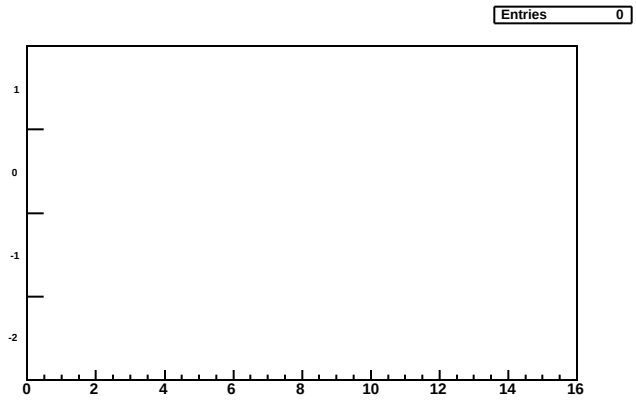
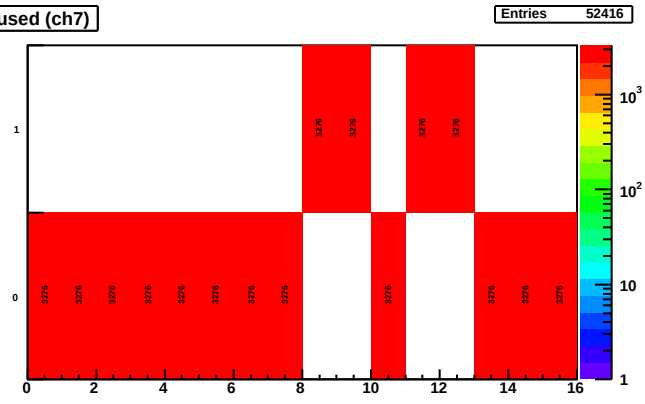
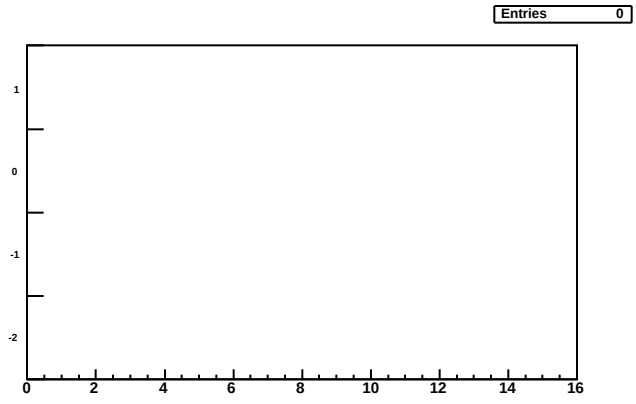


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)