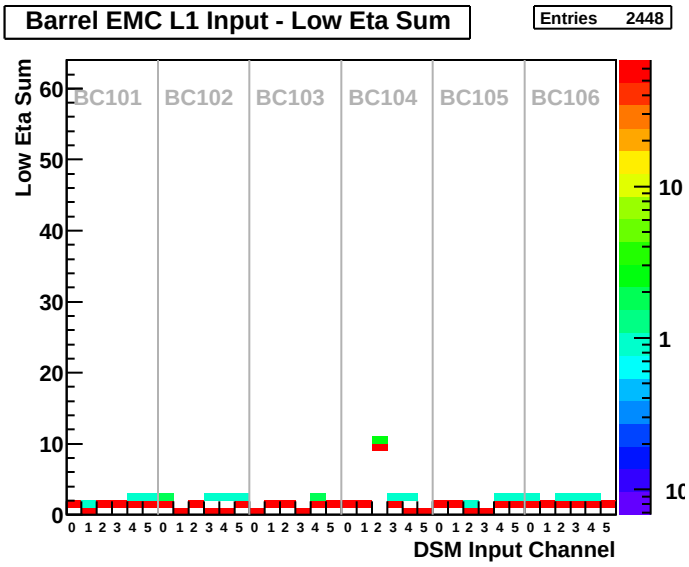
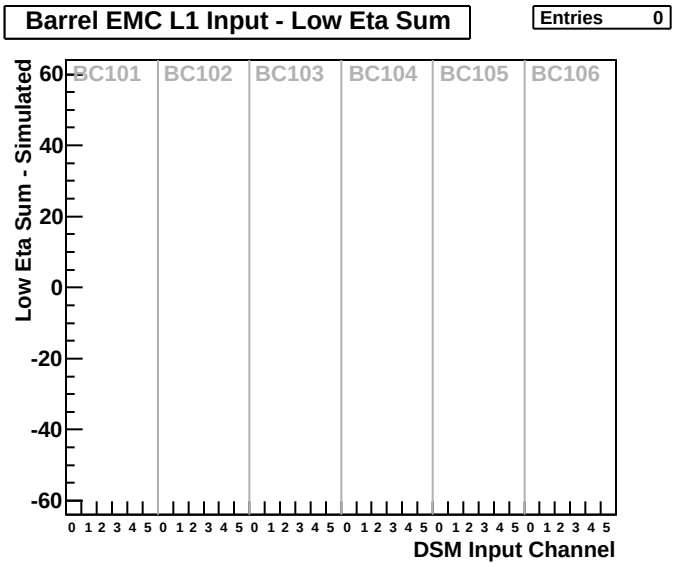
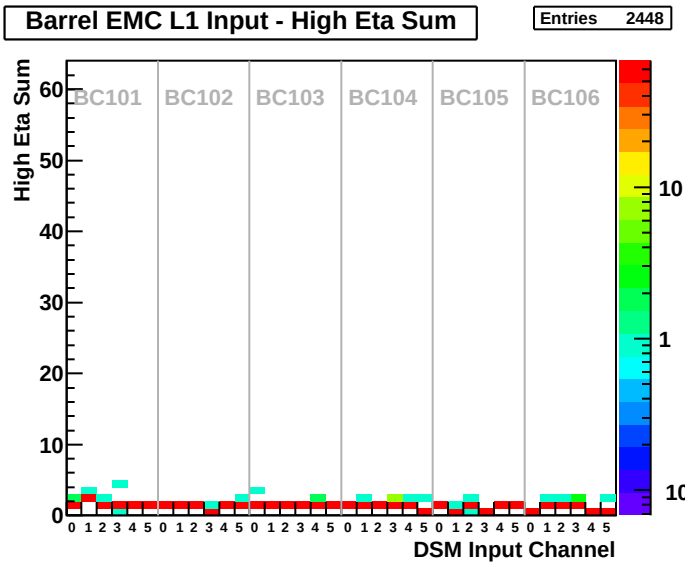
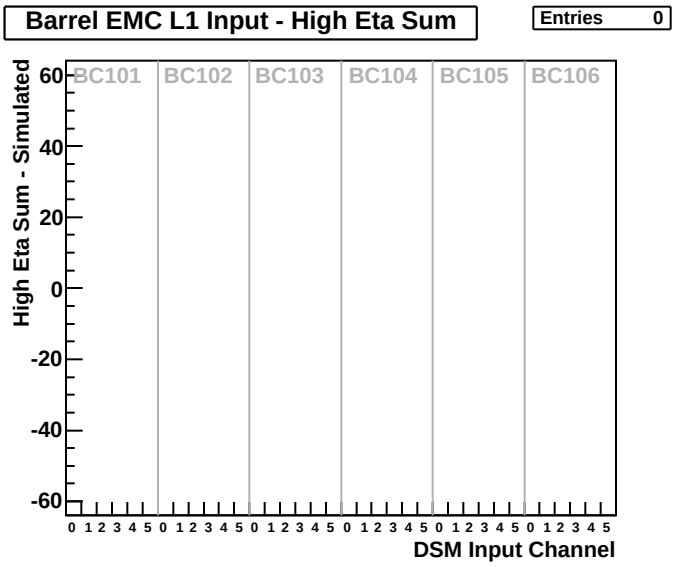
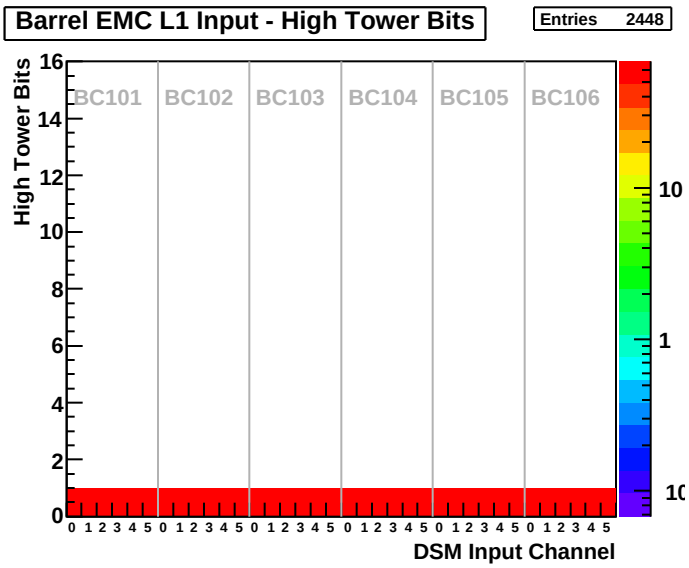
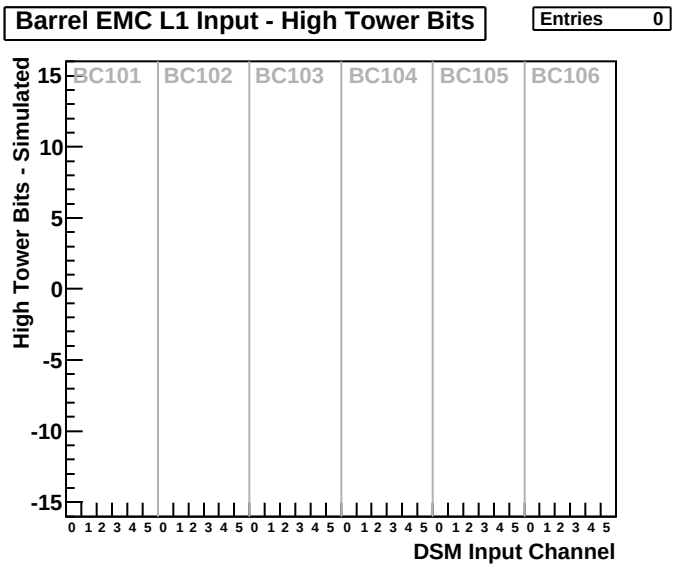

Barrel EMC L1 Input - Low Eta Sum
Entries 2448
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

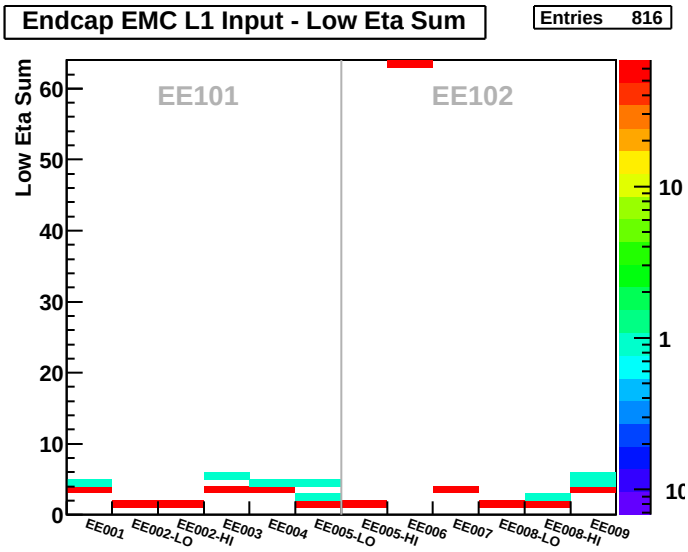

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

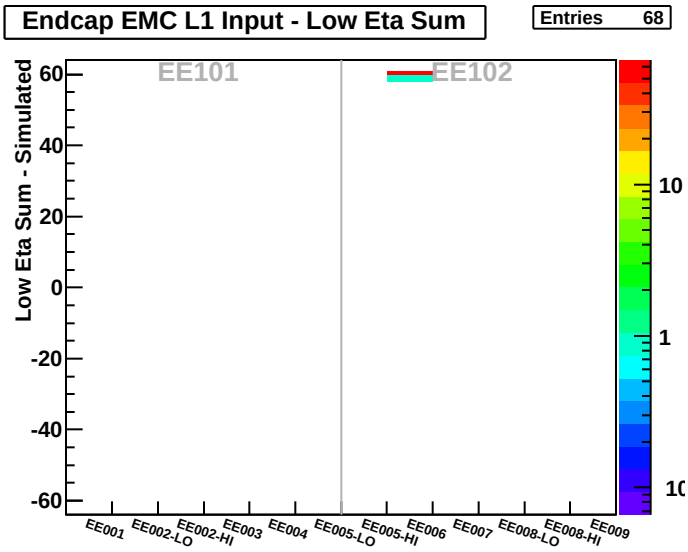

Barrel EMC L1 Input - High Eta Sum
Entries 2448
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

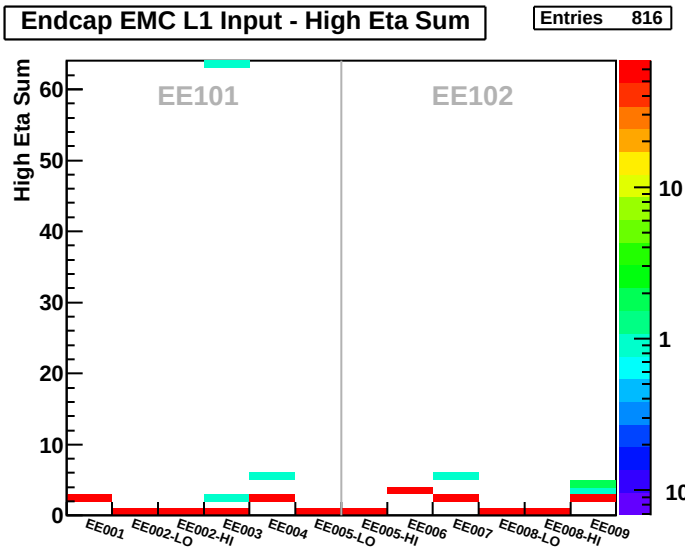

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

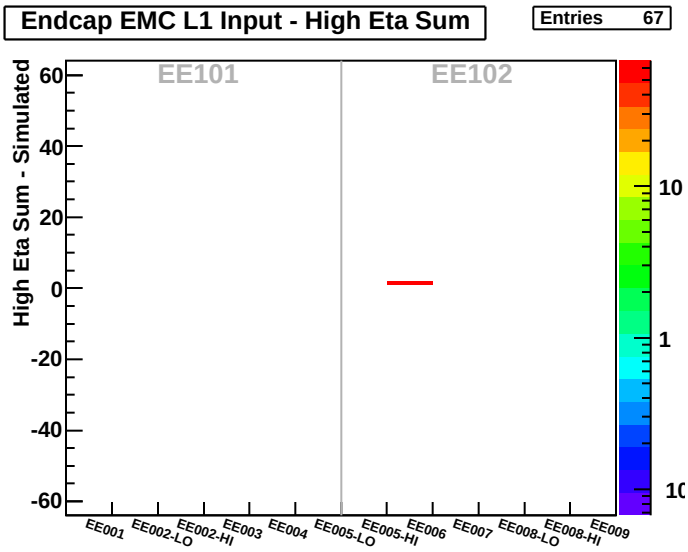

Barrel EMC L1 Input - High Tower Bits
Entries 2448
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

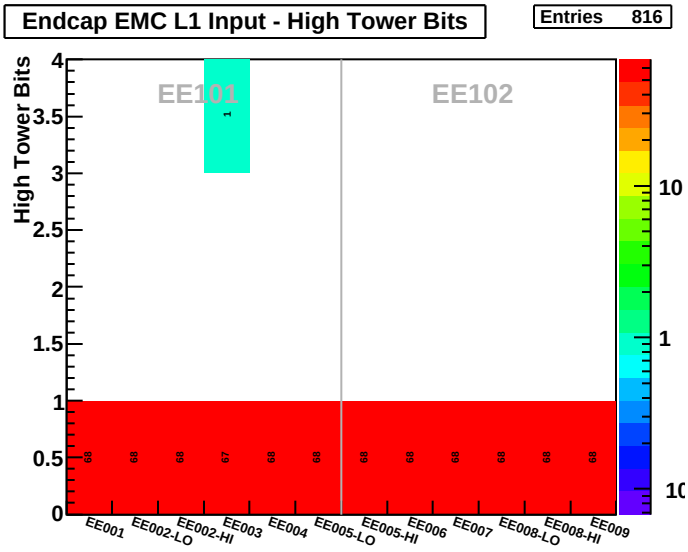

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

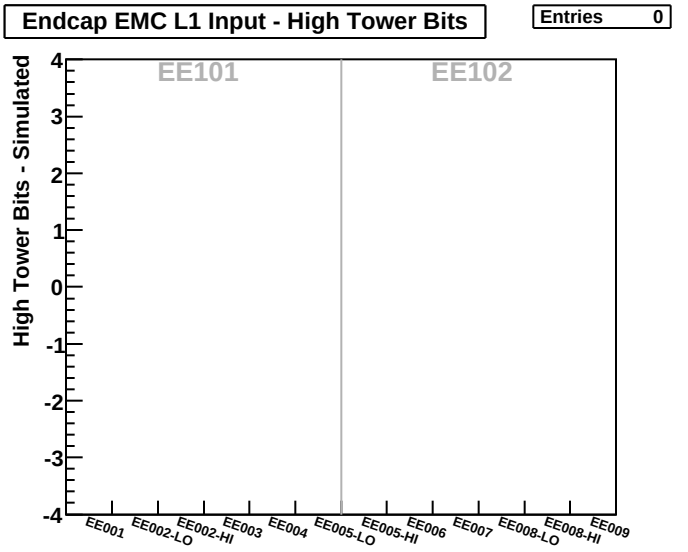

Endcap EMC L1 Input - Low Eta Sum
Entries 816
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

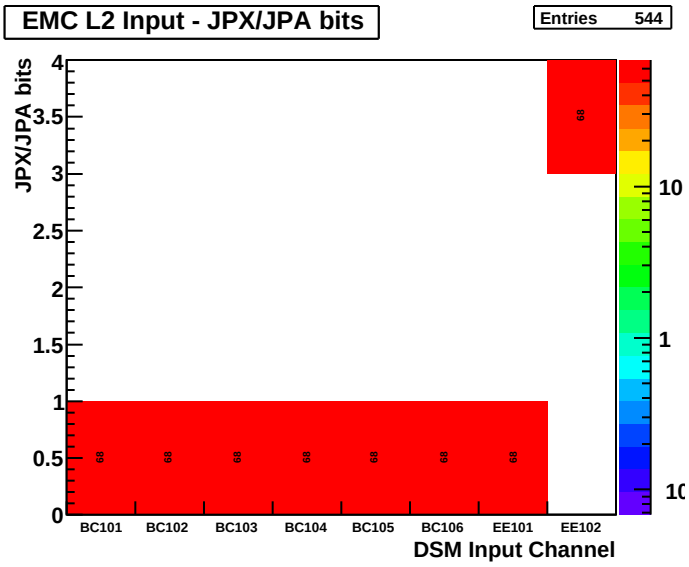

Endcap EMC L1 Input - Low Eta Sum
Entries 68
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

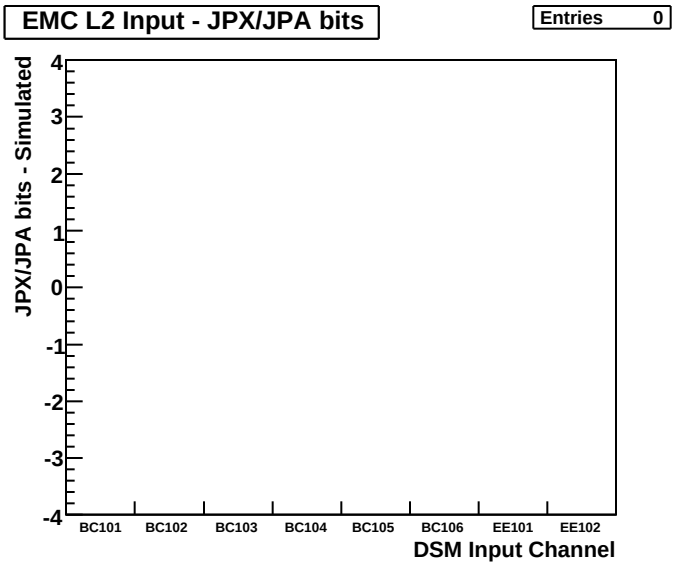

Endcap EMC L1 Input - High Eta Sum
Entries 816
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

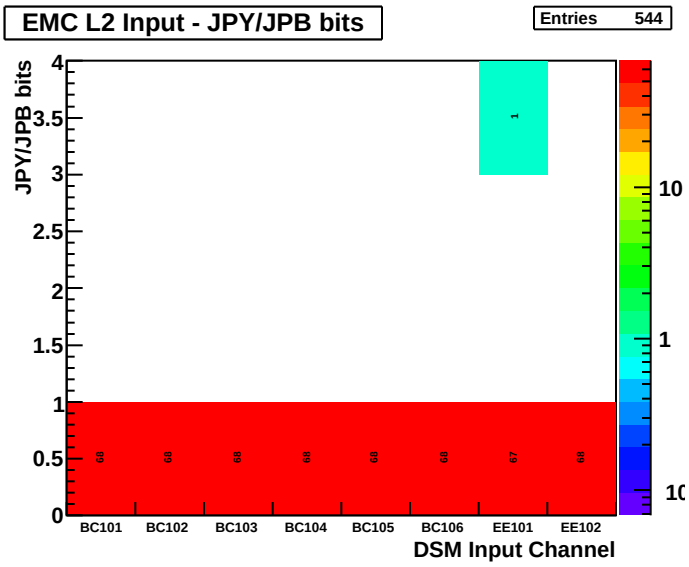

Endcap EMC L1 Input - High Eta Sum
Entries 67
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

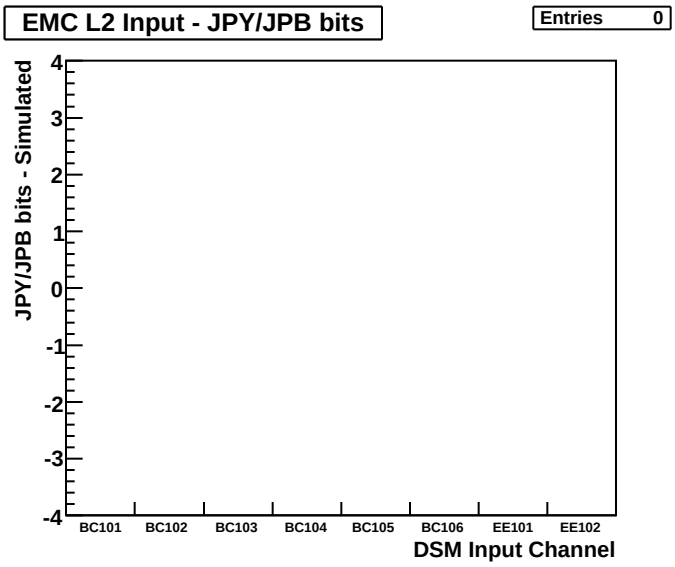

Endcap EMC L1 Input - High Tower Bits
Entries 816
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

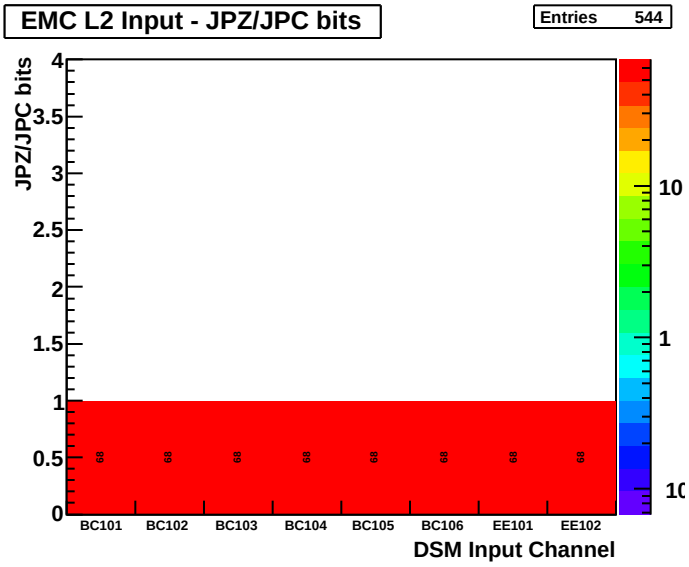

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

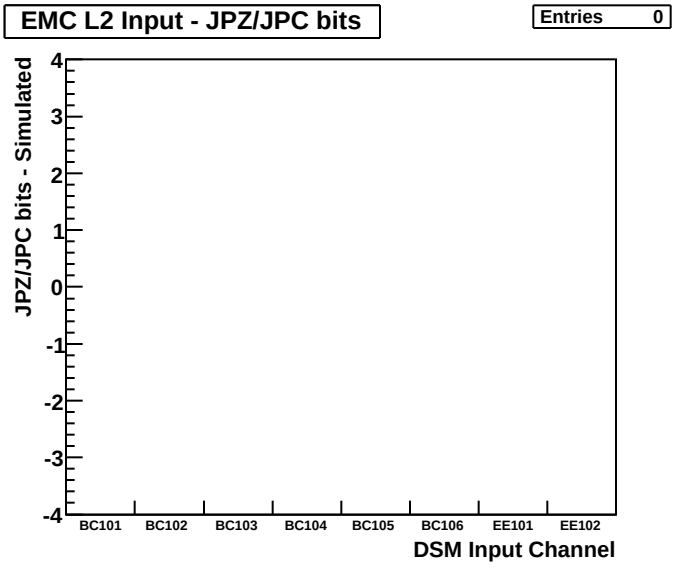

EMC L2 Input - JPX/JPA bits
Entries 544
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

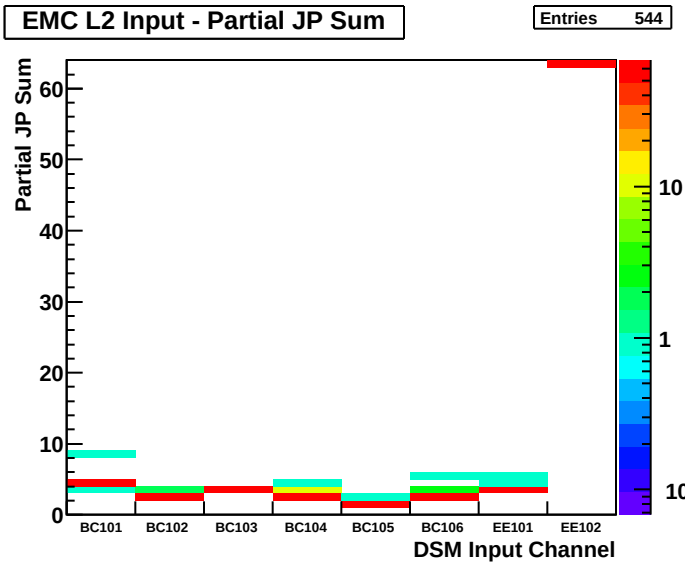

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

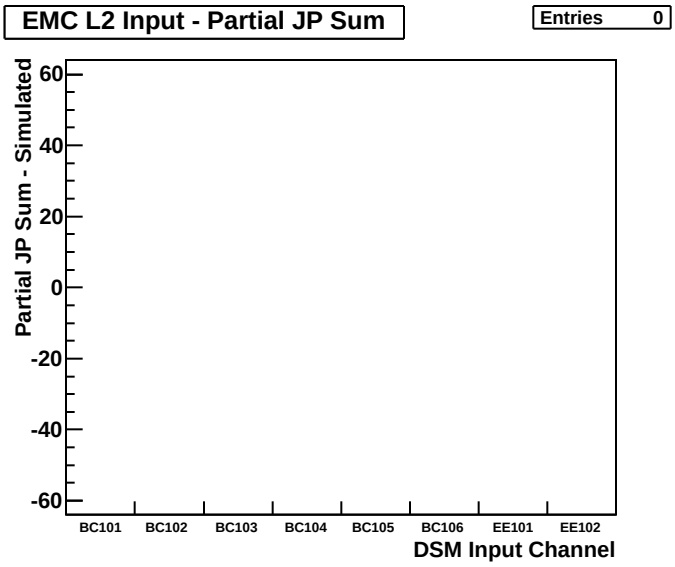

EMC L2 Input - JPY/JPB bits
Entries 544
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

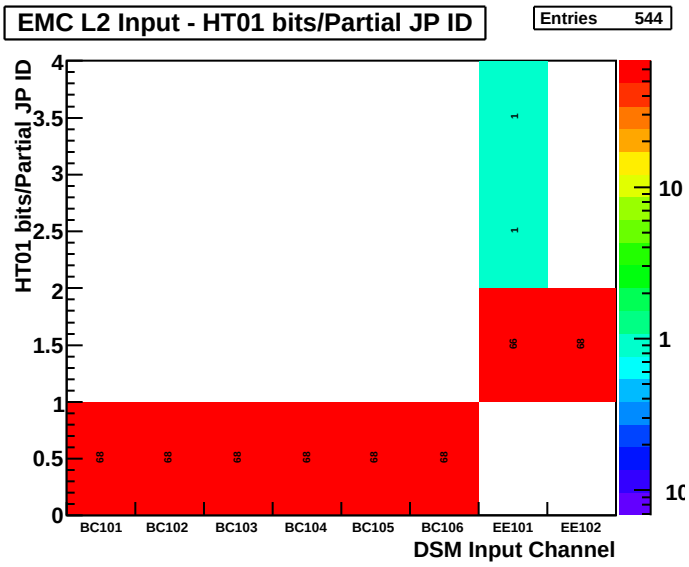

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

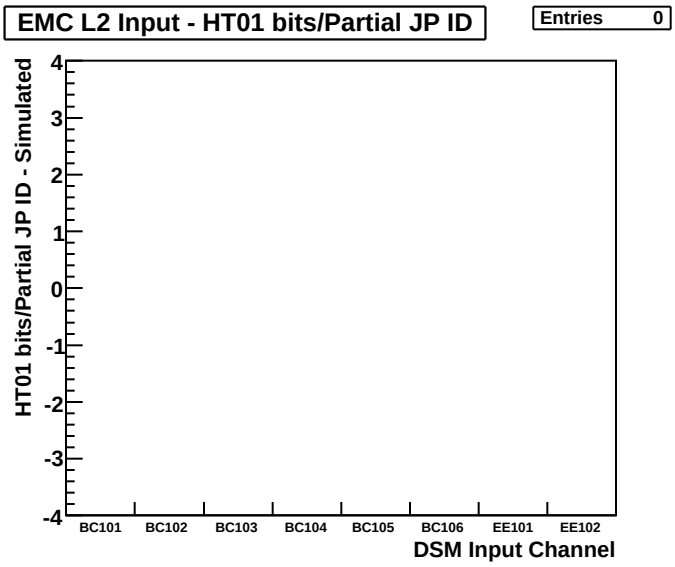

EMC L2 Input - JPZ/JPC bits
Entries 544
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

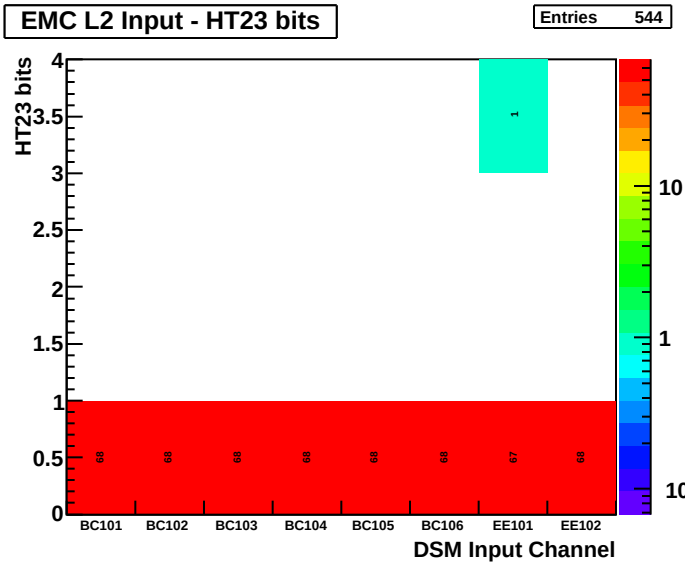

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

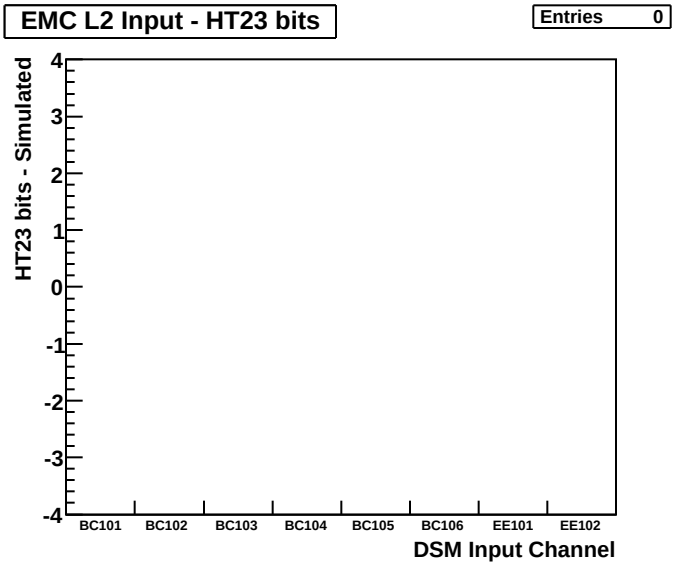

EMC L2 Input - Partial JP Sum
Entries 544
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

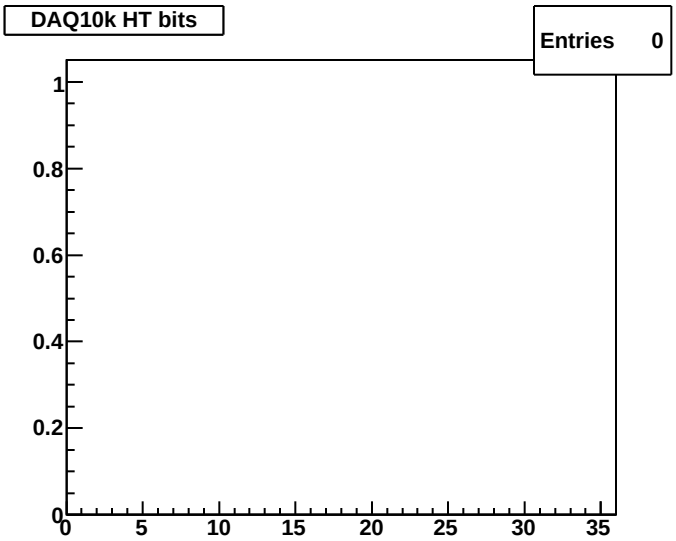

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

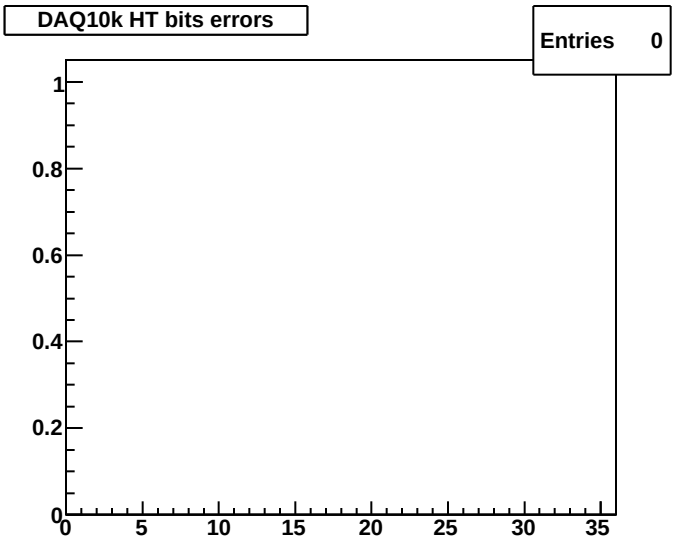

EMC L2 Input - HT01 bits/Partial JP ID
Entries 544
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

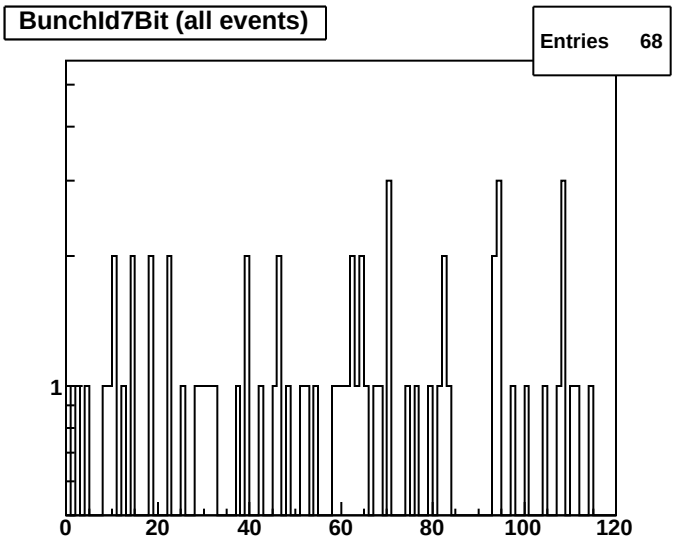

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

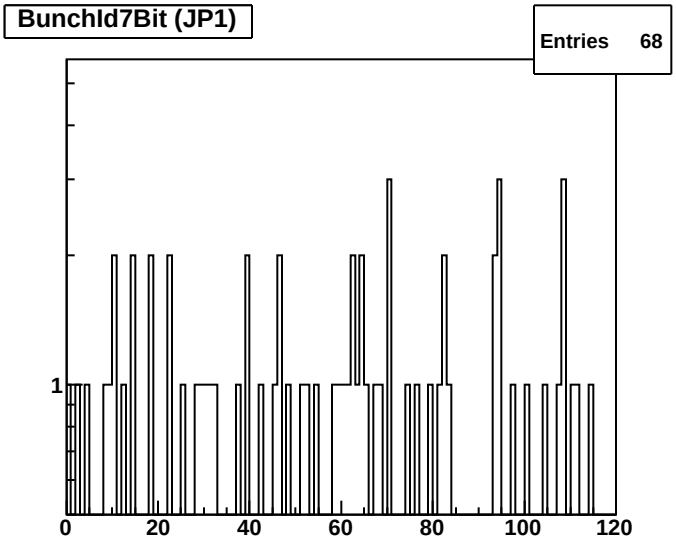

EMC L2 Input - HT23 bits
Entries 544
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

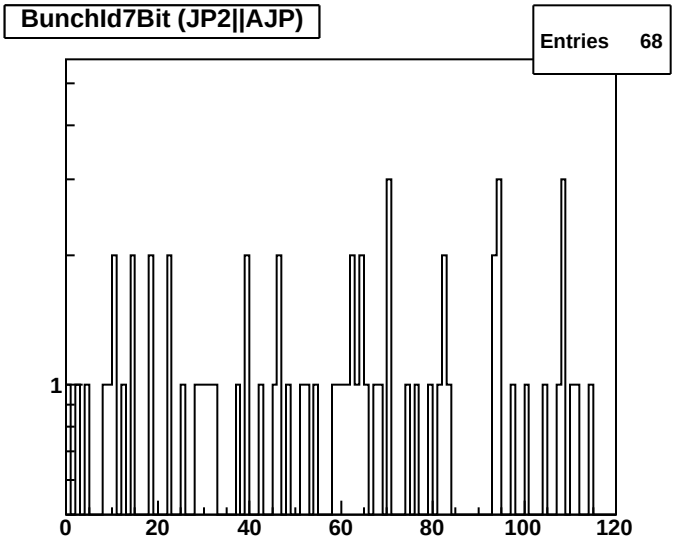

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

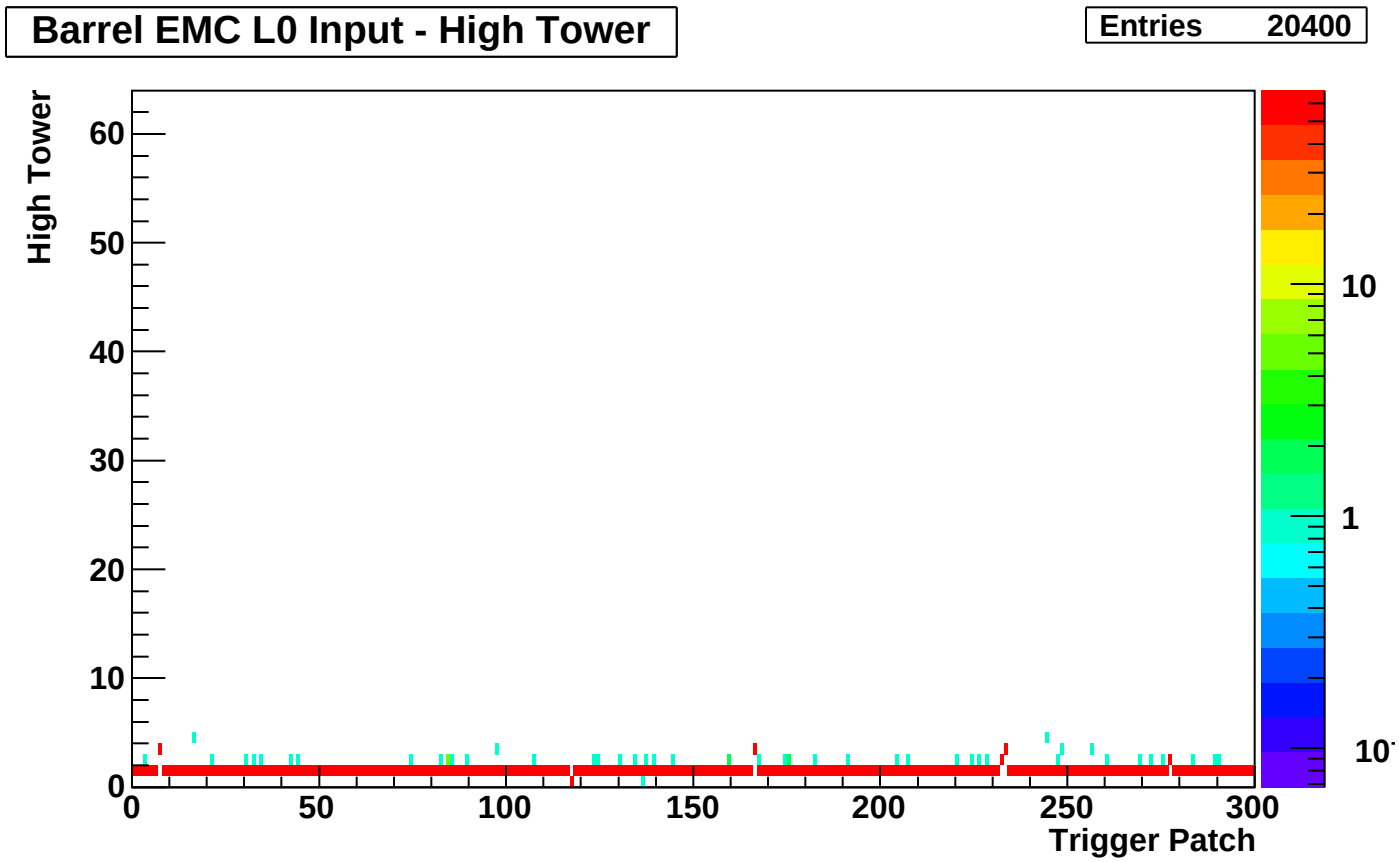

DAQ10k HT bits
Entries 0
1
0.8
0.6
0.4
0.2
0
0 5 10 15 20 25 30 35

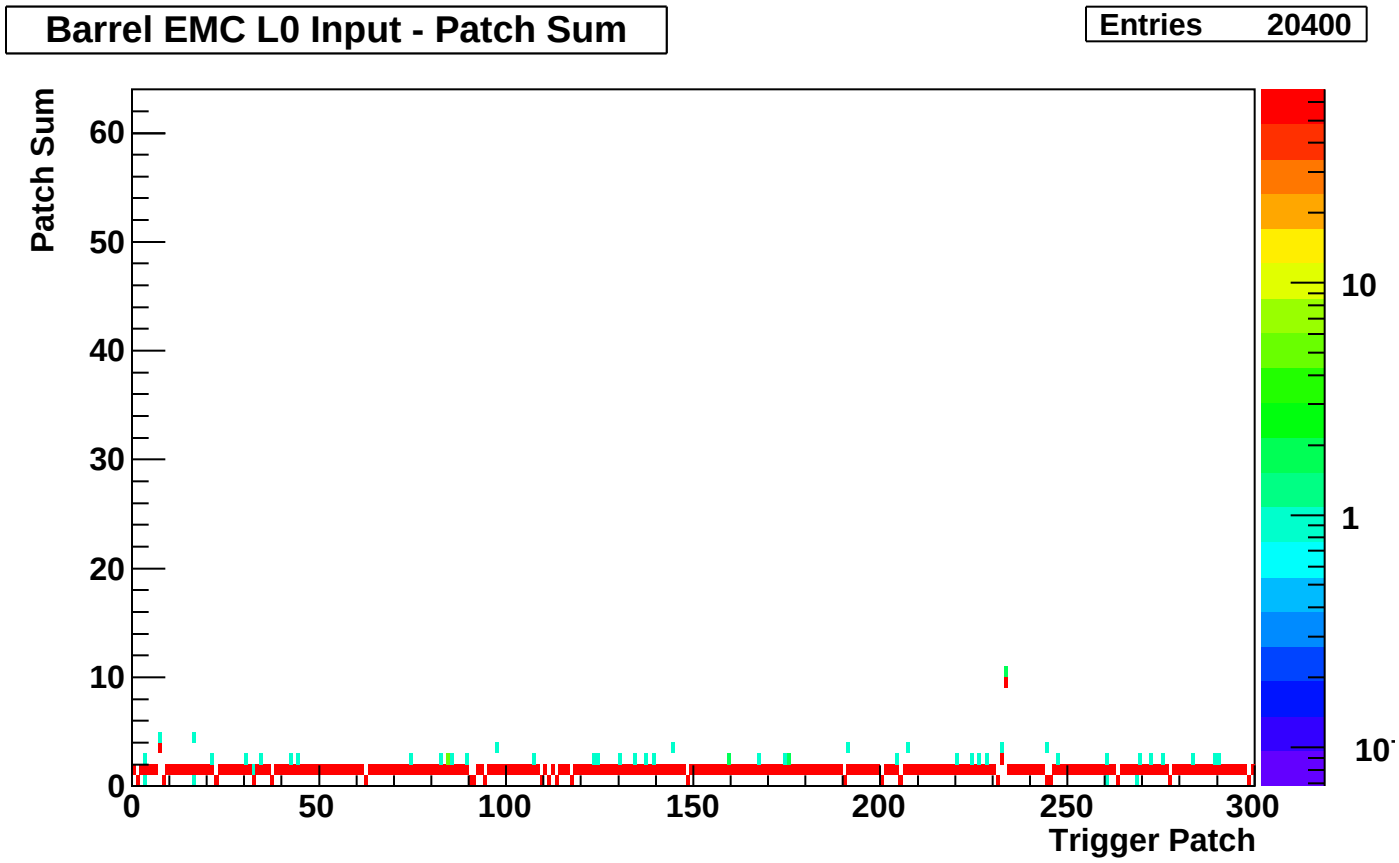

DAQ10k HT bits errors
Entries 0
1
0.8
0.6
0.4
0.2
0
0 5 10 15 20 25 30 35

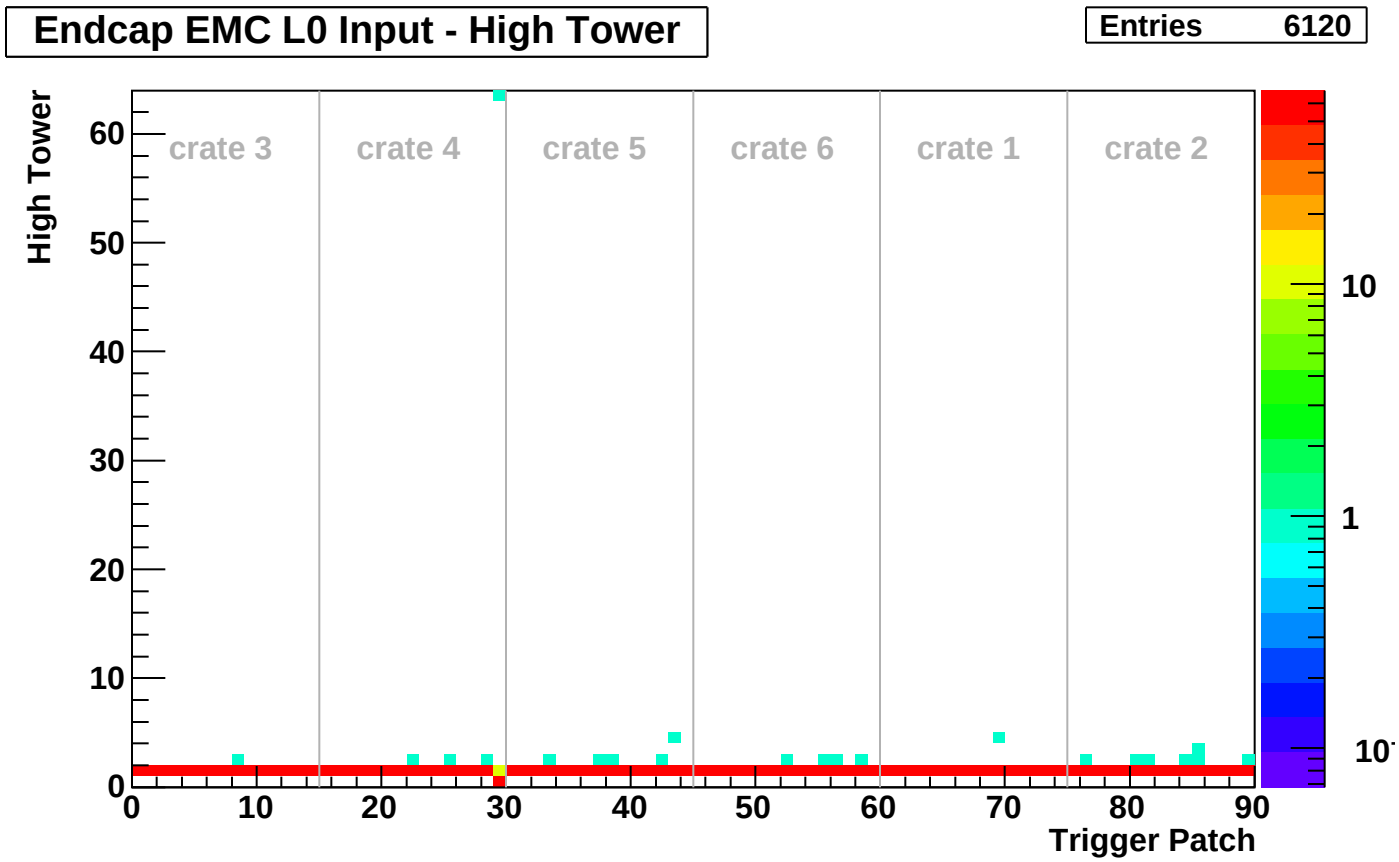

BunchId7Bit (all events)
Entries 68
1
0 20 40 60 80 100 120

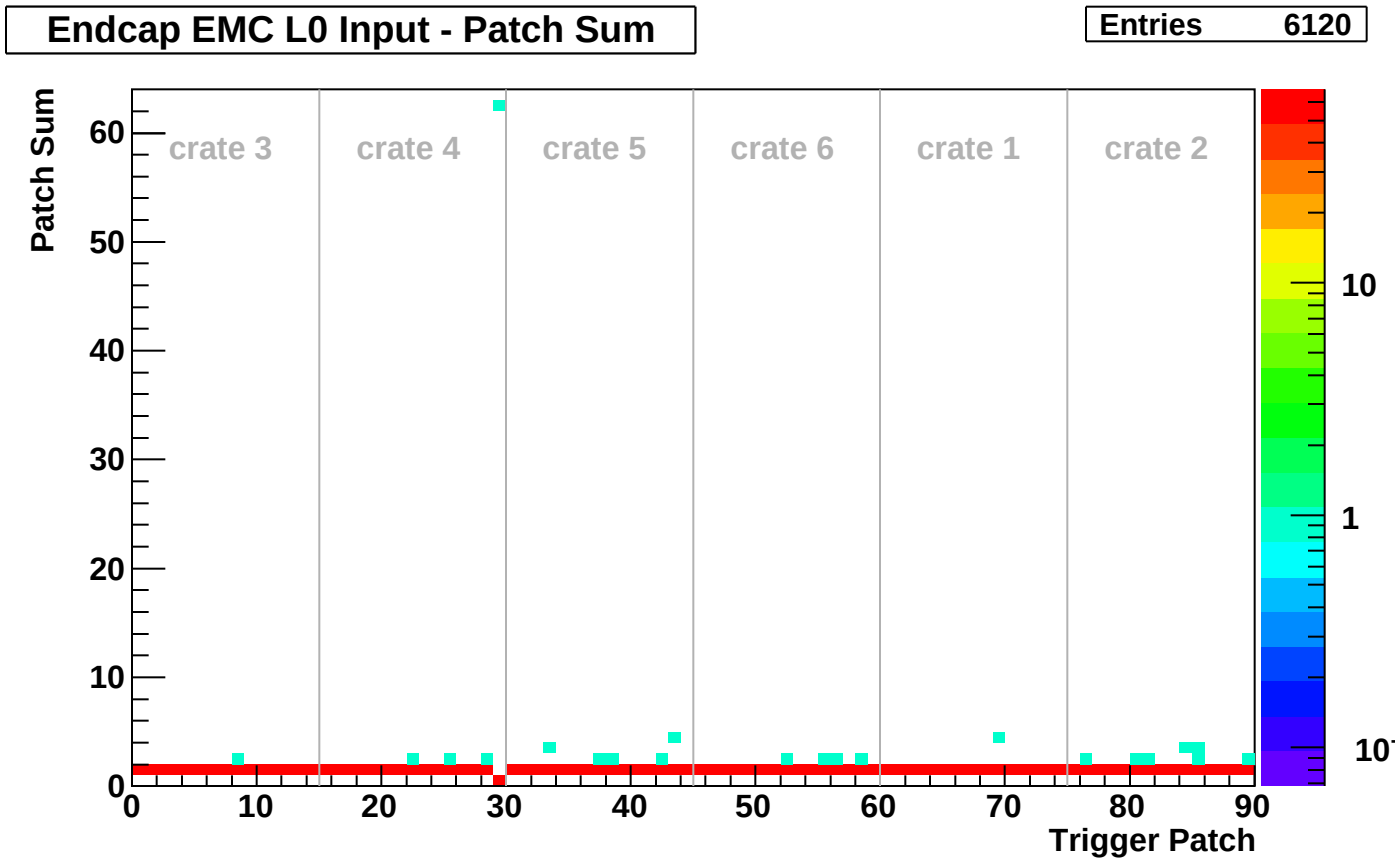

BunchId7Bit (JP1)
Entries 68
1
0 20 40 60 80 100 120

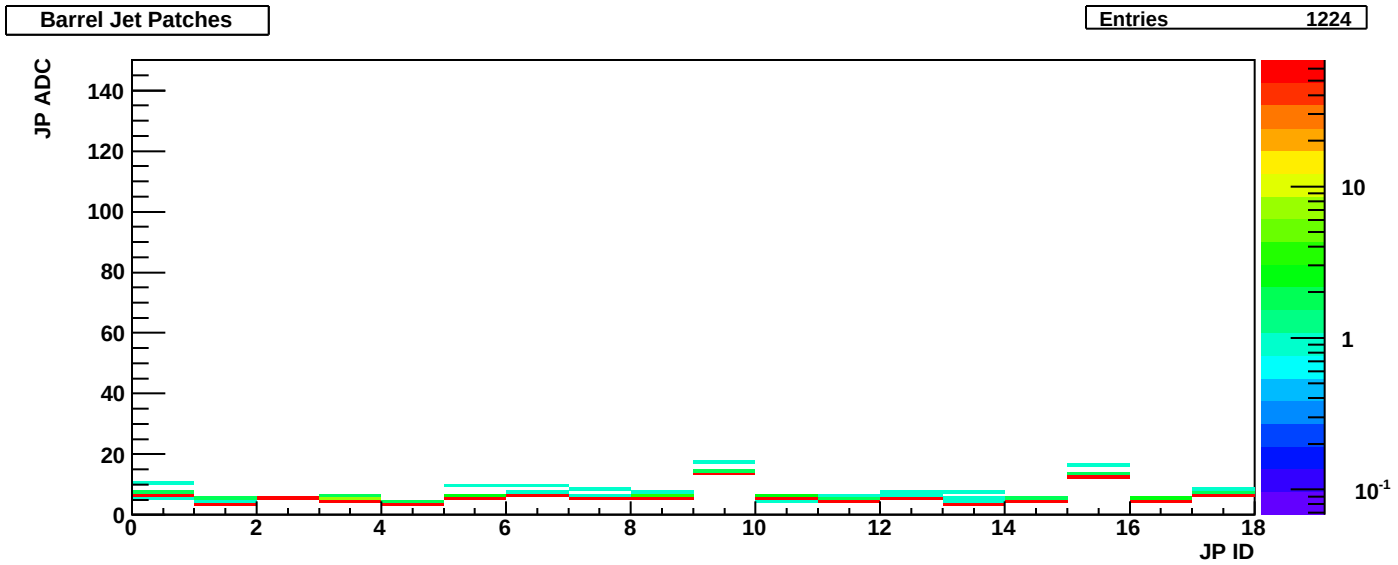

BunchId7Bit (JP2||AJP)
Entries 68
1
0 20 40 60 80 100 120

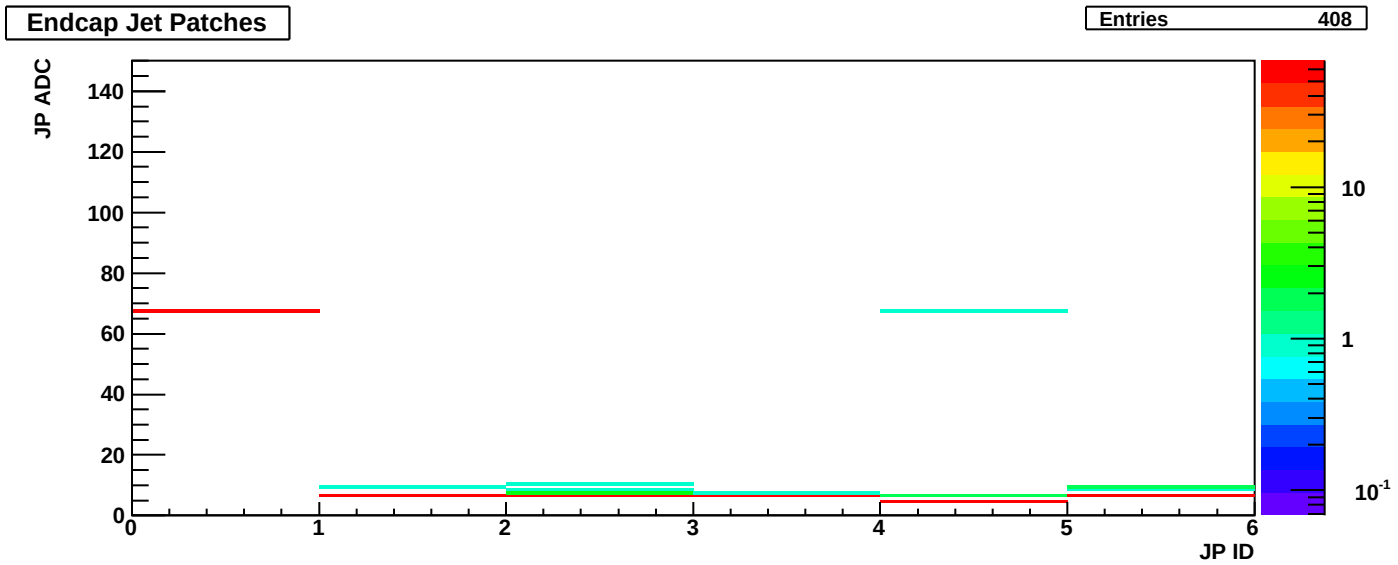

Barrel EMC L0 Input - High Tower
Entries 20400
High Tower
0
10
20
30
40
50
60
0
50
100
150
200
250
300
Trigger Patch
10
1
10

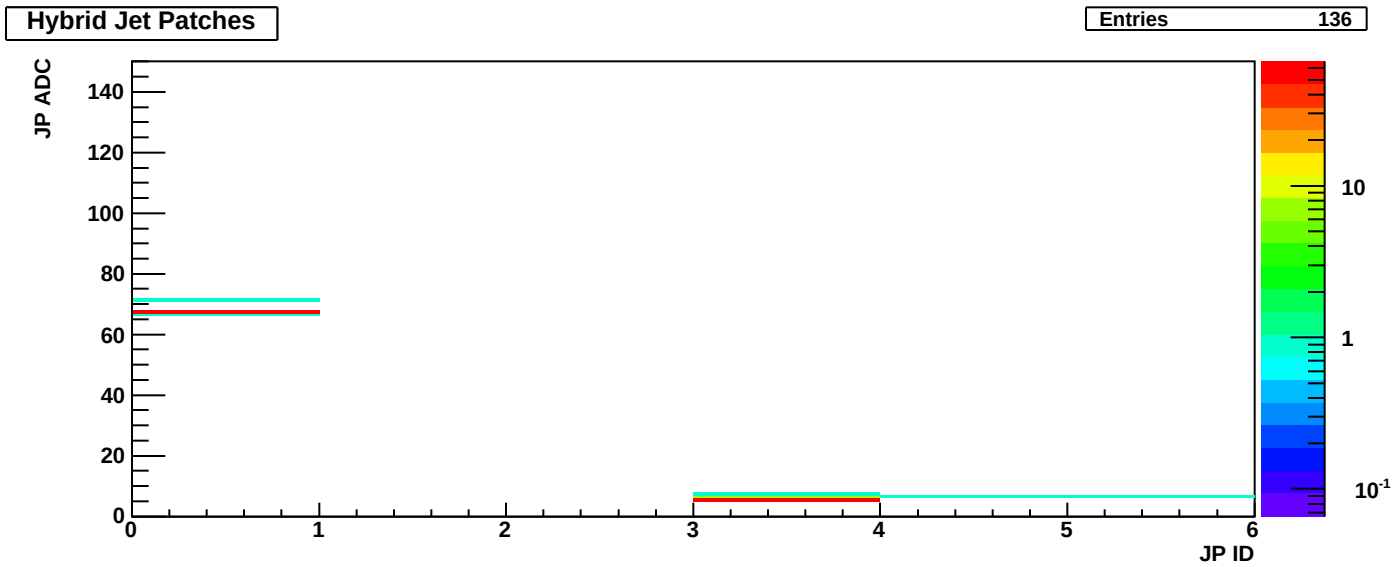

Barrel EMC L0 Input - Patch Sum
Entries 20400
Patch Sum
0
10
20
30
40
50
60
0
50
100
150
200
250
300
Trigger Patch
10
1
10

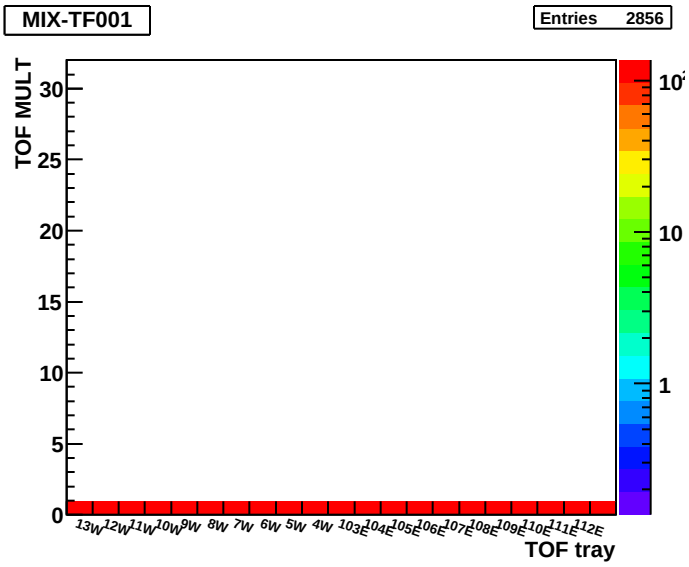

Endcap EMC L0 Input - High Tower
Entries 6120
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

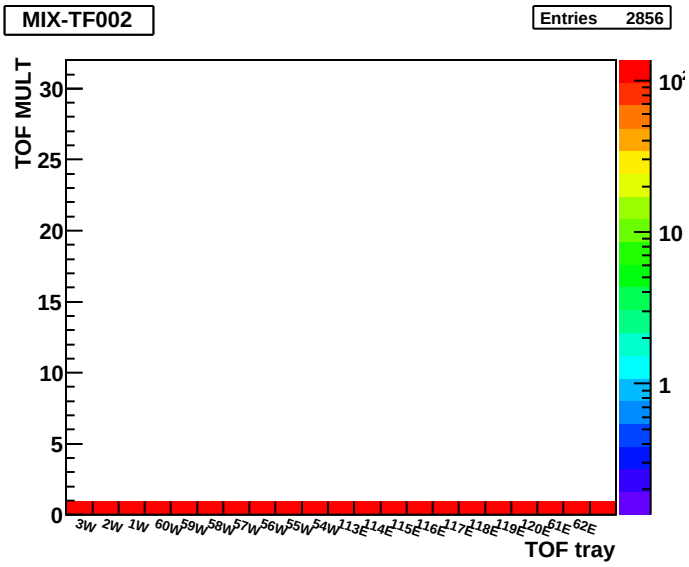

Endcap EMC L0 Input - Patch Sum
Entries 6120
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

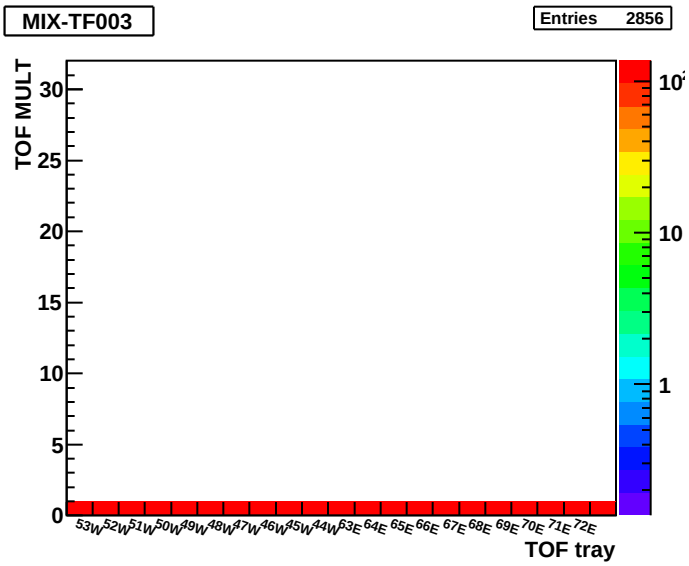

Barrel Jet Patches
Entries 1224
JP ADC
JP ID

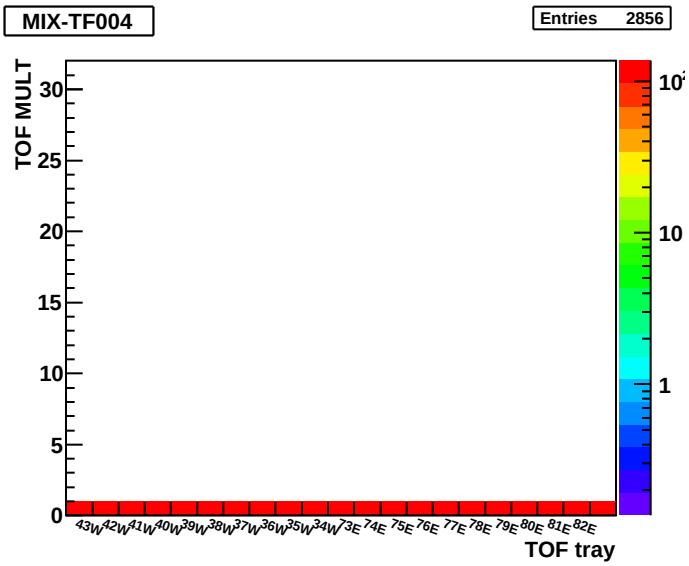

Endcap Jet Patches
Entries 408
JP ADC
JP ID

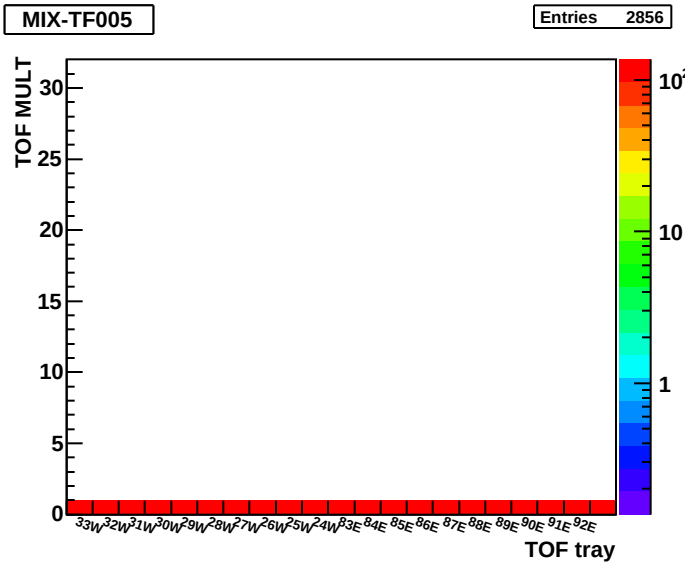

Hybrid Jet Patches
Entries 136
JP ADC
JP ID

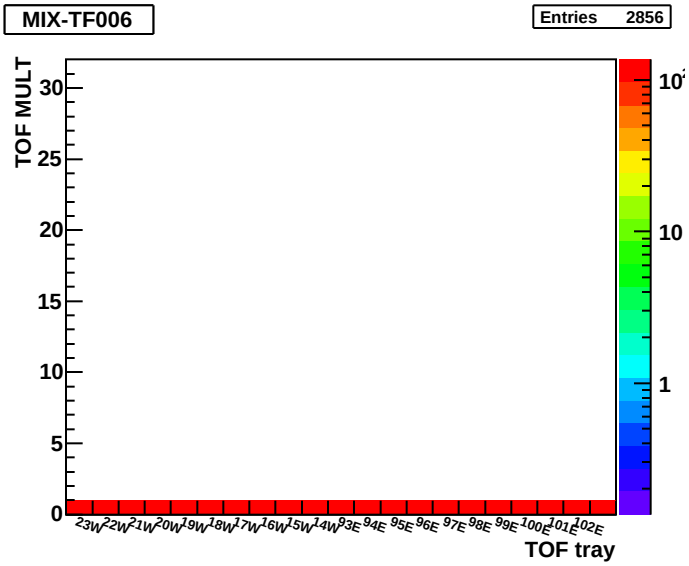

MIX-TF001
Entries 2856
TOF MULT
TOF tray

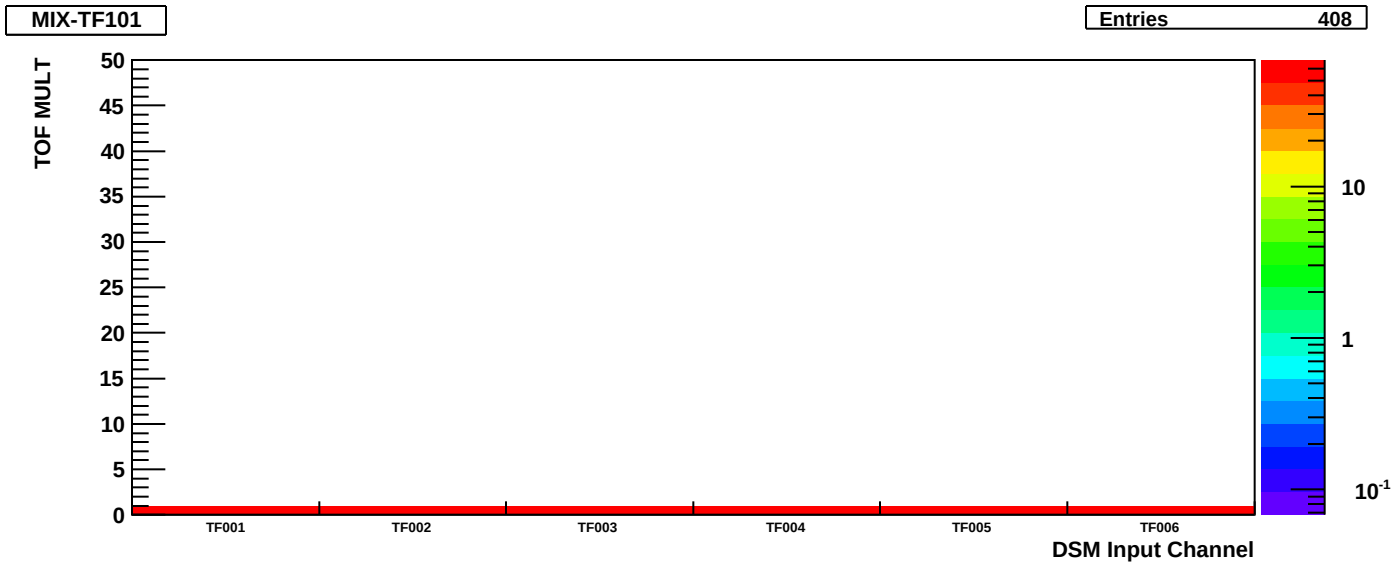

MIX-TF002
Entries 2856
TOF MULT
TOF tray

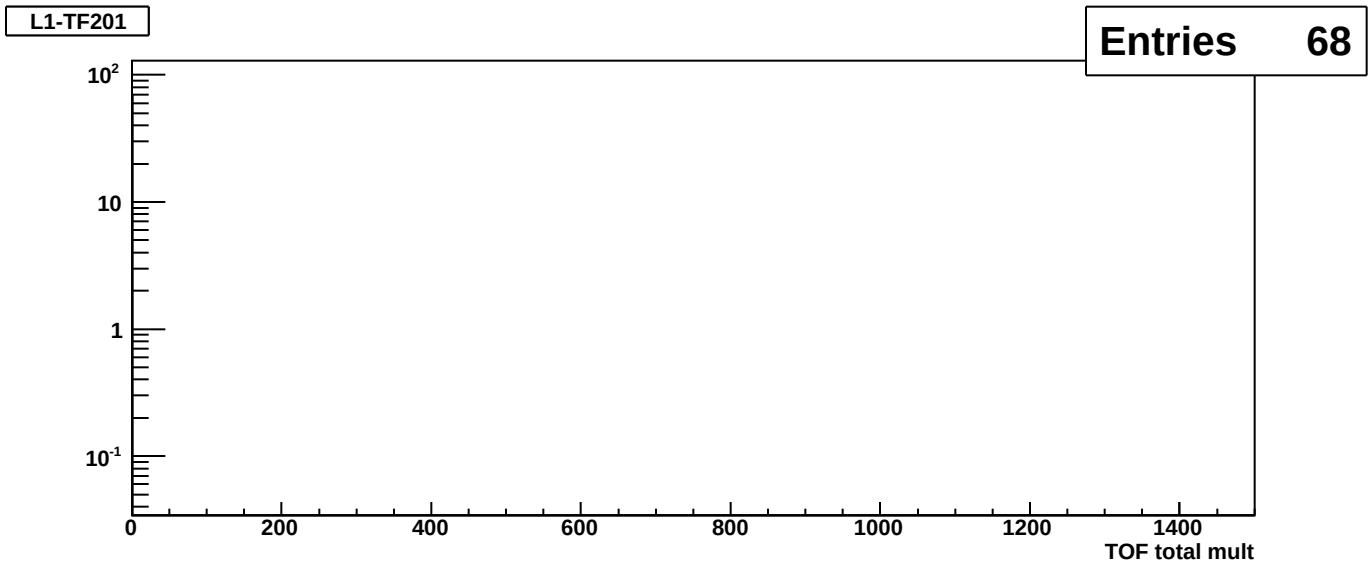

MIX-TF003
Entries 2856
TOF MULT
TOF tray

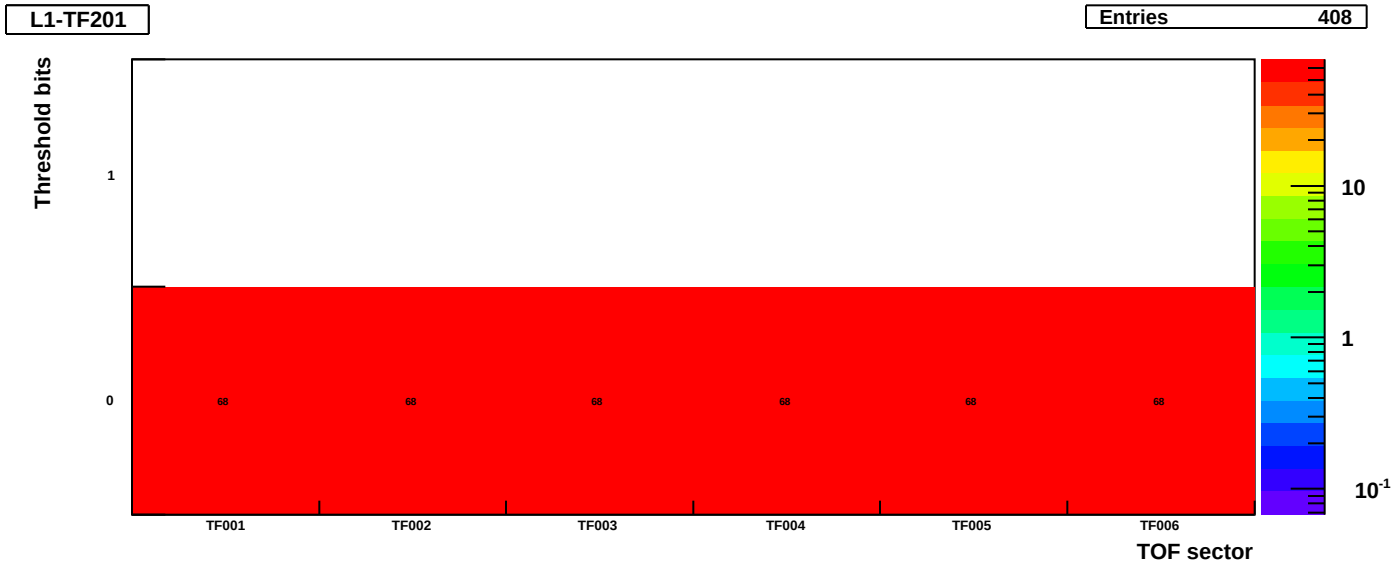

MIX-TF004
Entries 2856
TOF MULT
TOF tray

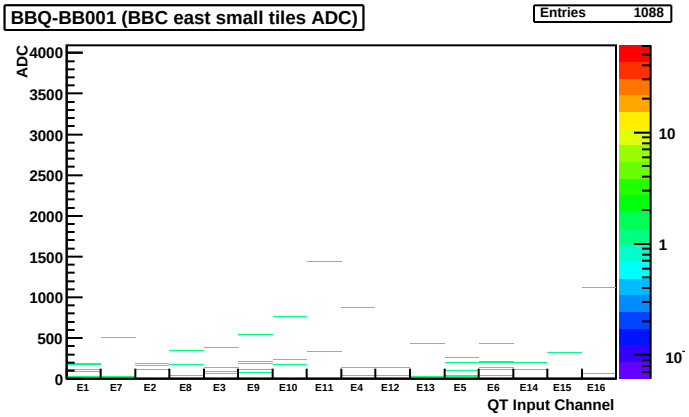

MIX-TF005
Entries 2856
TOF MULT
TOF tray

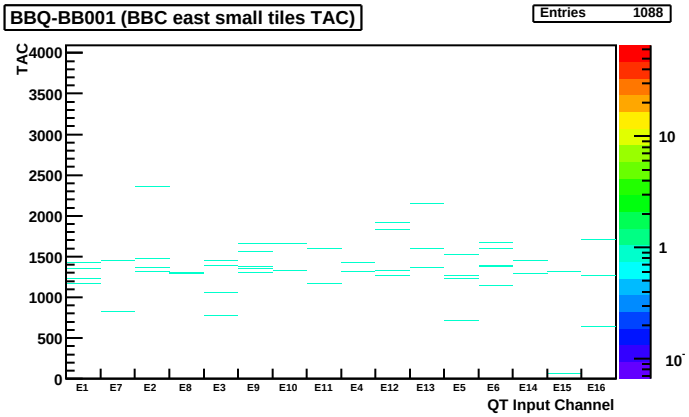

MIX-TF006
Entries 2856
TOF MULT
TOF tray

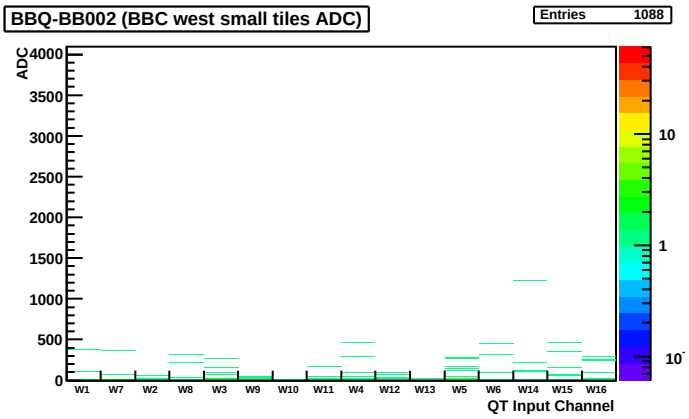

MIX-TF101
Entries 408
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10
1
10^{-1}

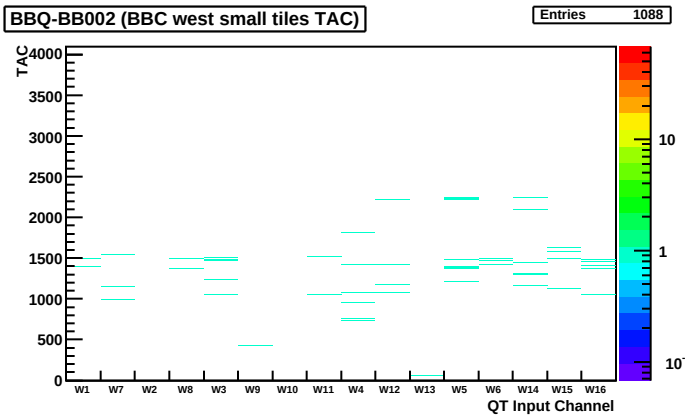

L1-TF201
Entries 68
10^{2}
10
1
10^{-1}
0
200
400
600
800
1000
1200
1400
TOF total mult

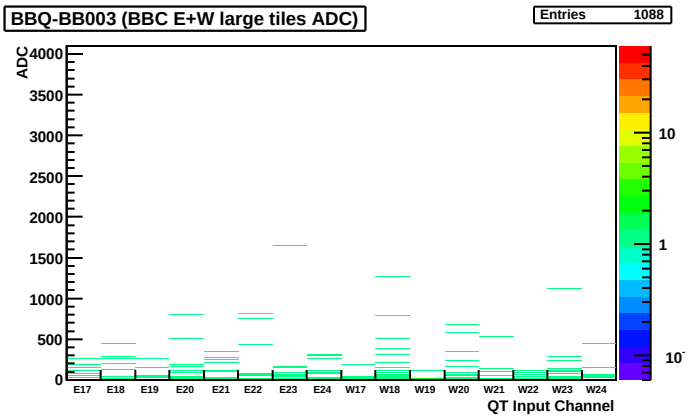

L1-TF201
Entries 408
Threshold bits
1
0
68
68
68
68
68
68
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10
1
10^{-1}

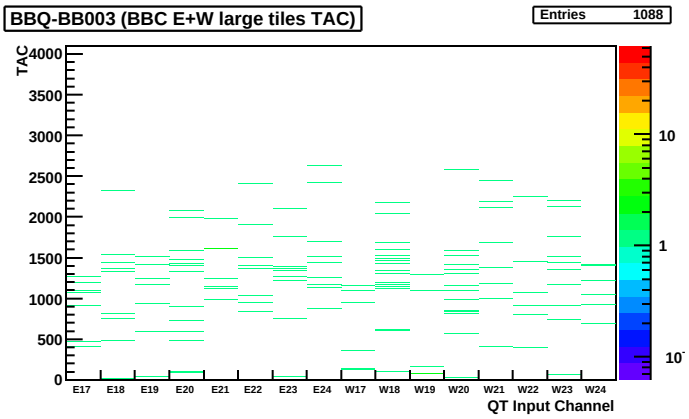

BBQ-BB001 (BBC east small tiles ADC)
Entries 1088
ADC
QT Input Channel

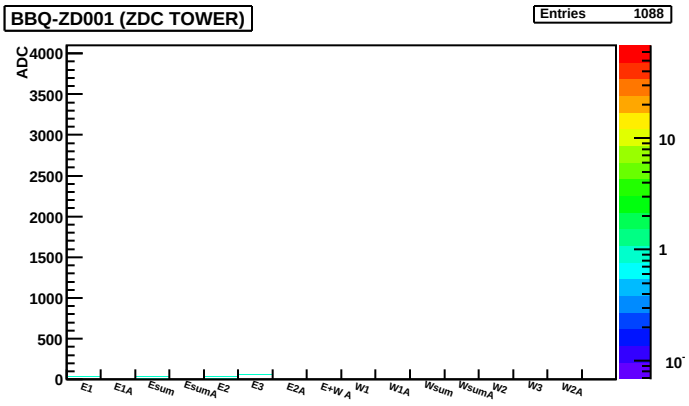

BBQ-BB001 (BBC east small tiles TAC)
Entries 1088
TAC
QT Input Channel

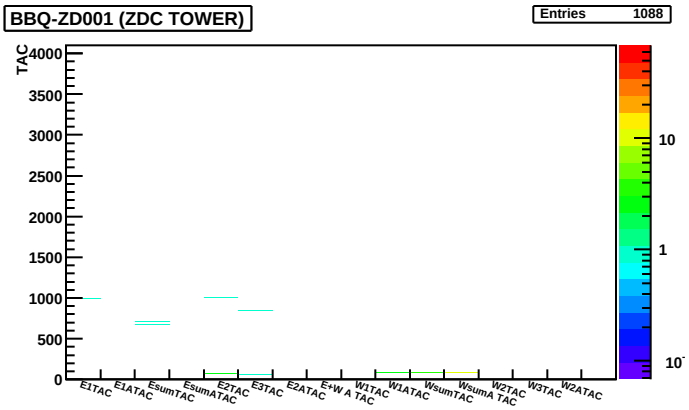

BBQ-BB002 (BBC west small tiles ADC)
Entries 1088
ADC
QT Input Channel

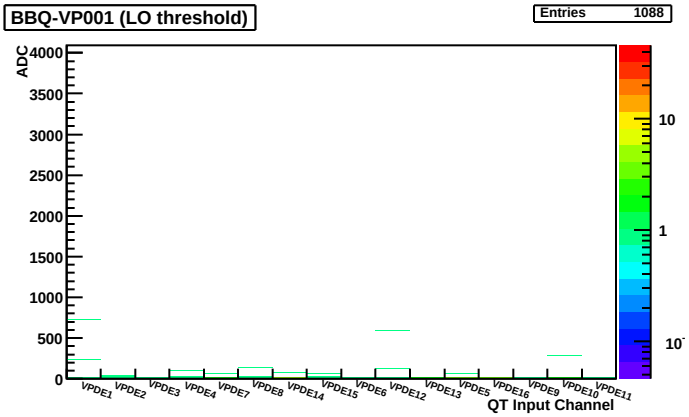

BBQ-BB002 (BBC west small tiles TAC)
Entries 1088
TAC
QT Input Channel

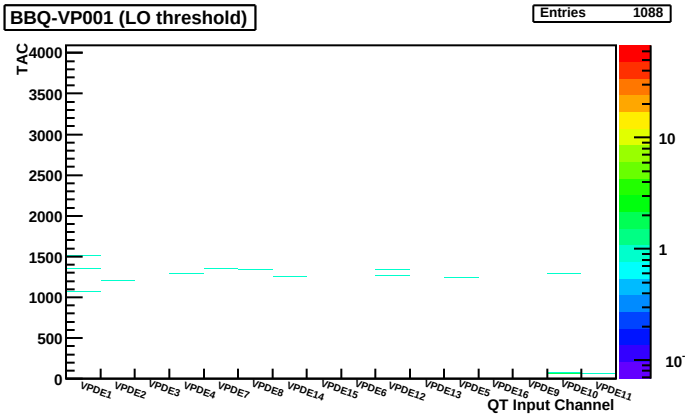

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1088
ADC
QT Input Channel

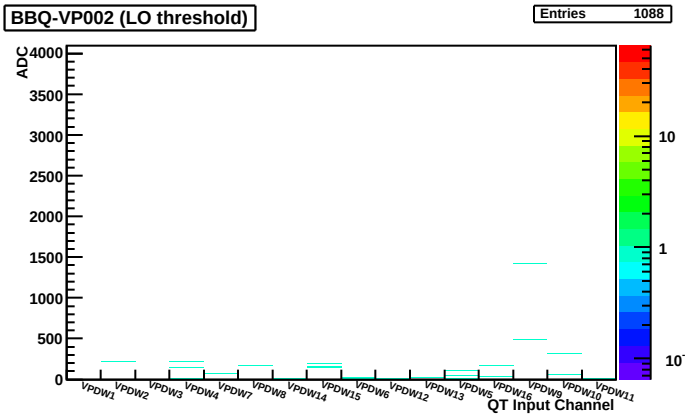

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1088
TAC
QT Input Channel

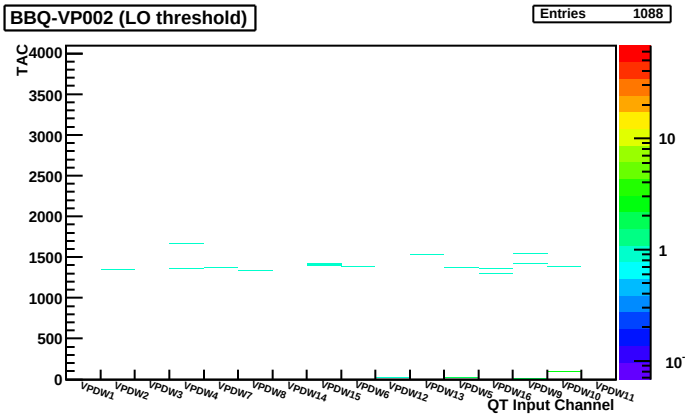

BBQ-ZD001 (ZDC TOWER)
Entries 1088
ADC

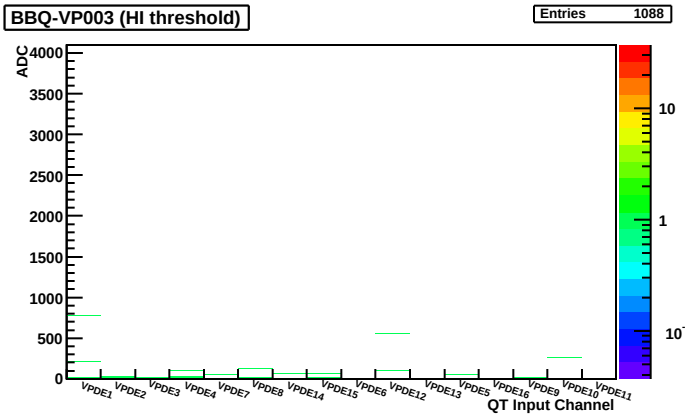

BBQ-ZD001 (ZDC TOWER)
Entries 1088
TAC

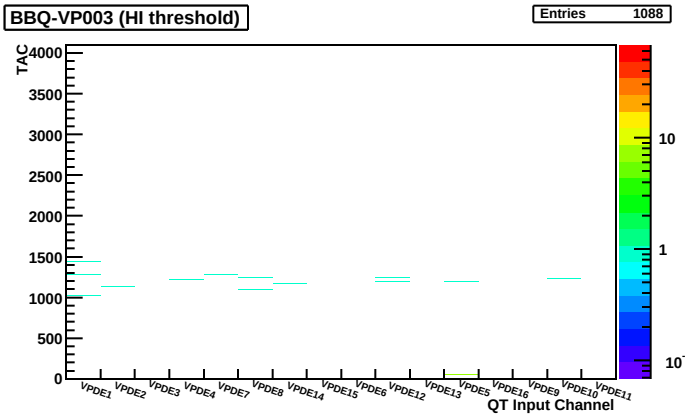

BBQ-VP001 (LO threshold)
Entries 1088
ADC
QT Input Channel

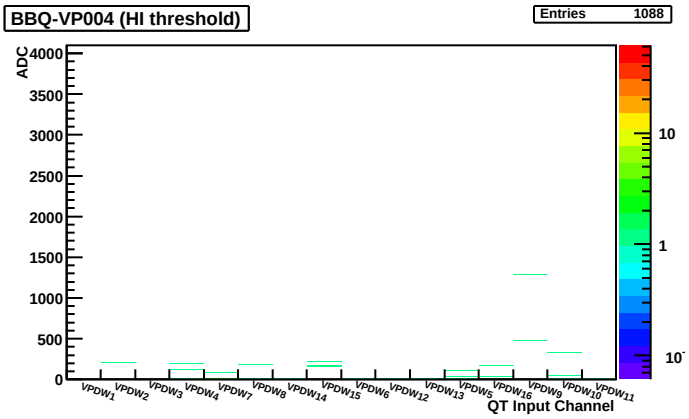

BBQ-VP001 (LO threshold)
Entries 1088
TAC
QT Input Channel

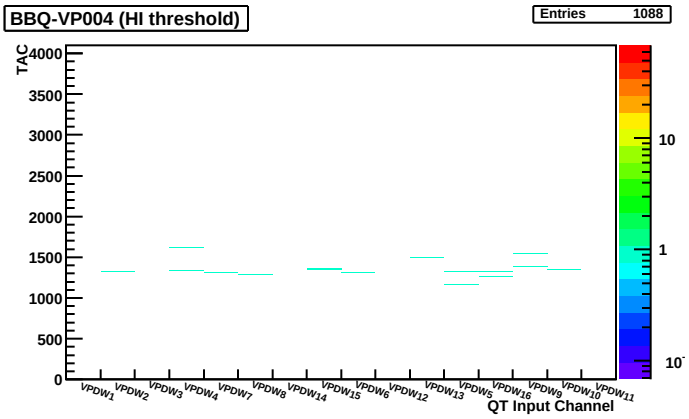

BBQ-VP002 (LO threshold)
Entries 1088
ADC
QT Input Channel

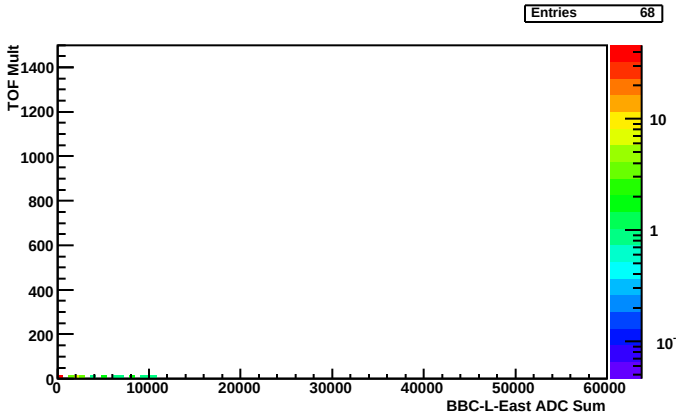

BBQ-VP002 (LO threshold)
Entries 1088
TAC
QT Input Channel

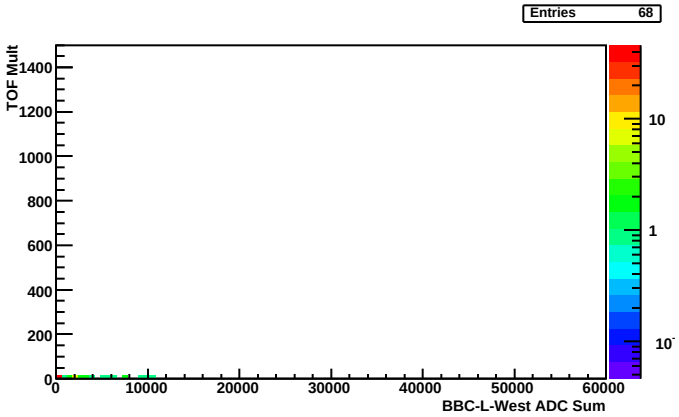

BBQ-VP003 (HI threshold)
Entries 1088
ADC
QT Input Channel

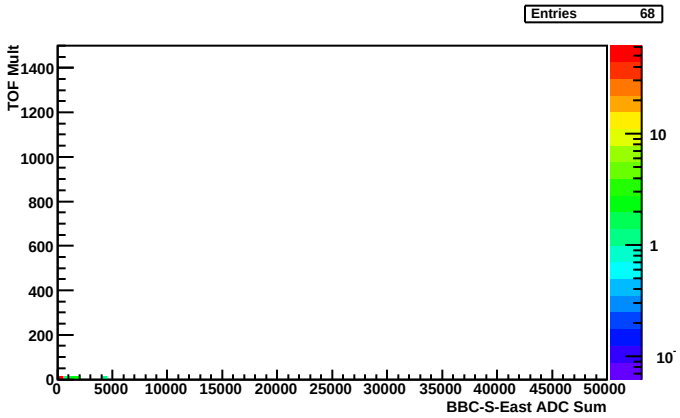

BBQ-VP003 (HI threshold)
Entries 1088
TAC
QT Input Channel

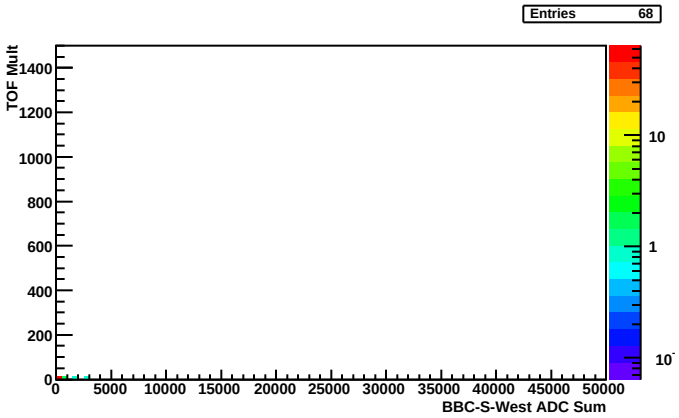

BBQ-VP004 (HI threshold)
Entries 1088
ADC
QT Input Channel

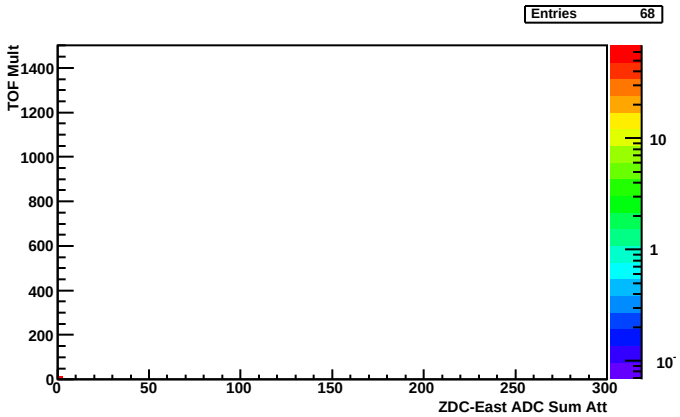

BBQ-VP004 (HI threshold)
Entries 1088
TAC
QT Input Channel

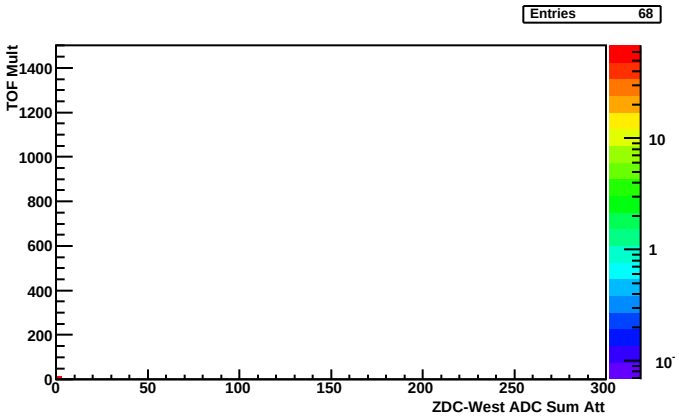

Entries 68
TOF Mult
BBC-L-East ADC Sum

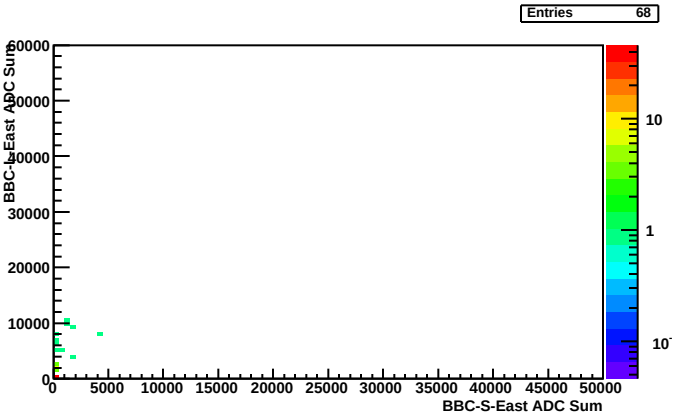

Entries 68
TOF Mult
BBC-L-West ADC Sum

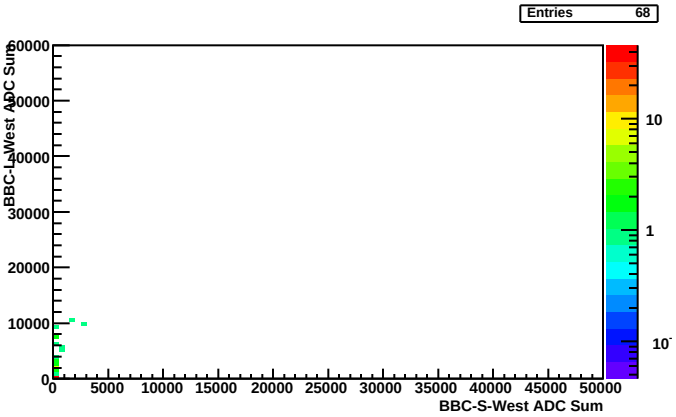

Entries 68
TOF Mult
BBC-S-East ADC Sum

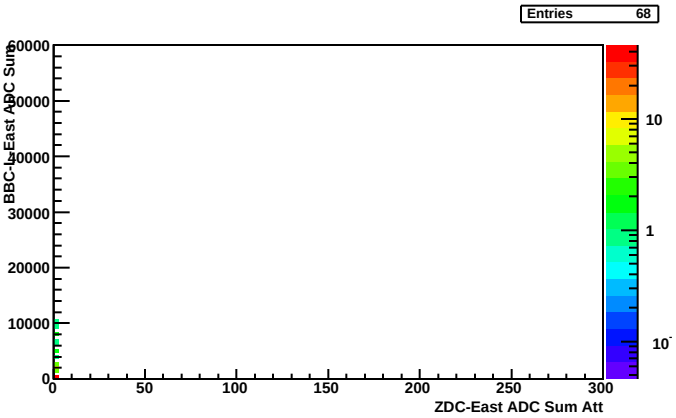

Entries 68
TOF Mult
BBC-S-West ADC Sum

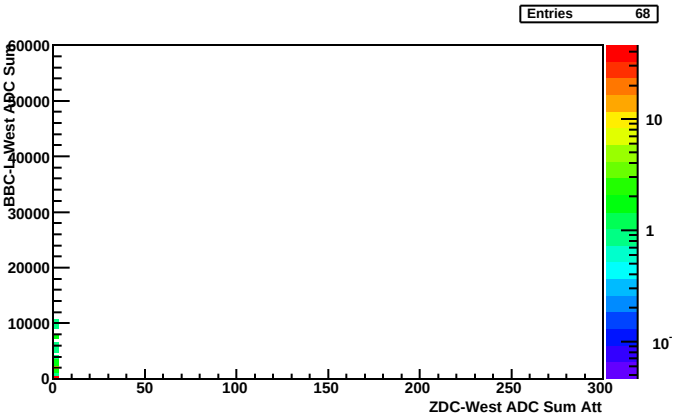

Entries 68
TOF Mult
ZDC-East ADC Sum Att

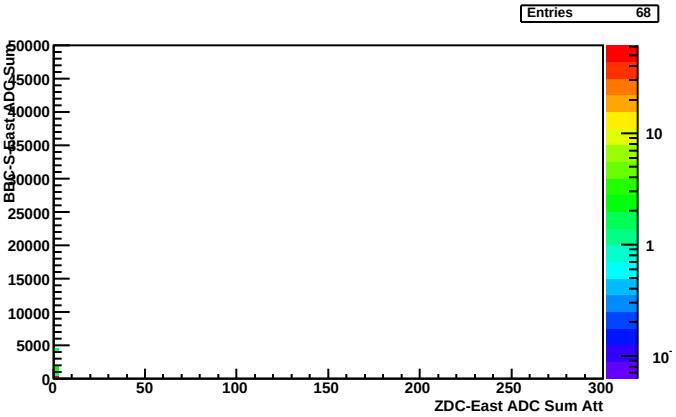

Entries 68
TOF Mult
ZDC-West ADC Sum Att

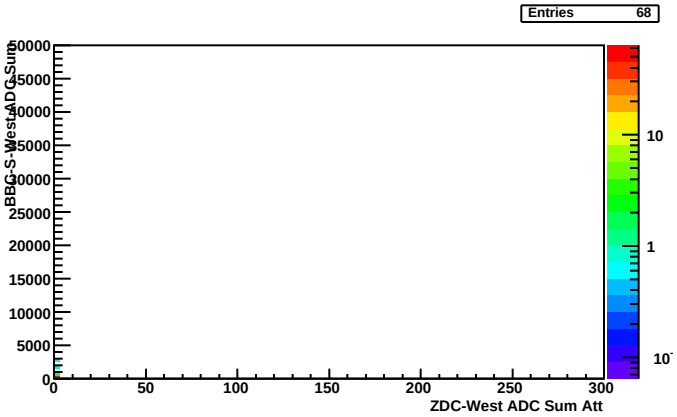

Entries 68
BBC-L-East ADC Sum
BBC-S-East ADC Sum

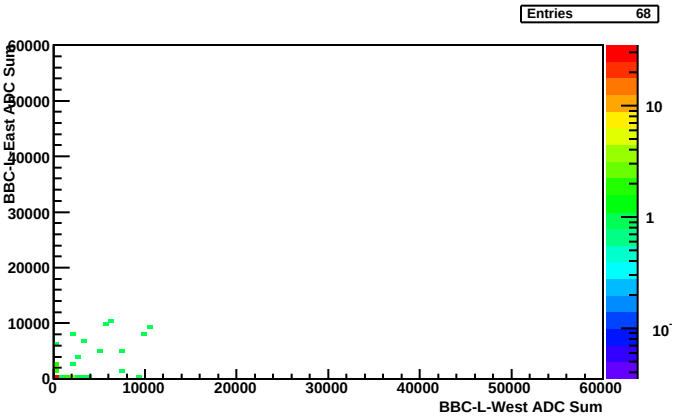

Entries 68
BBC-L-West ADC Sum
BBC-S-West ADC Sum

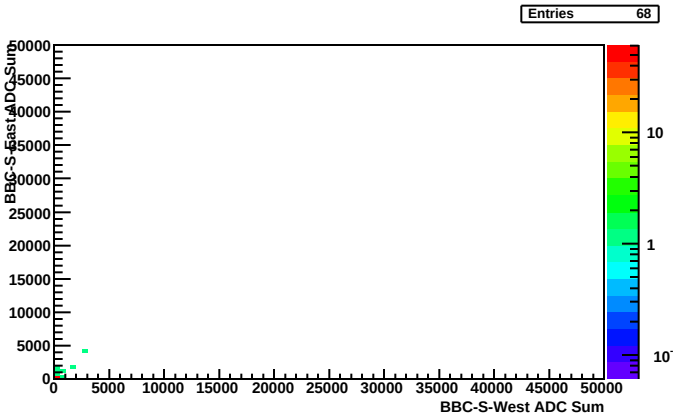

Entries 68
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

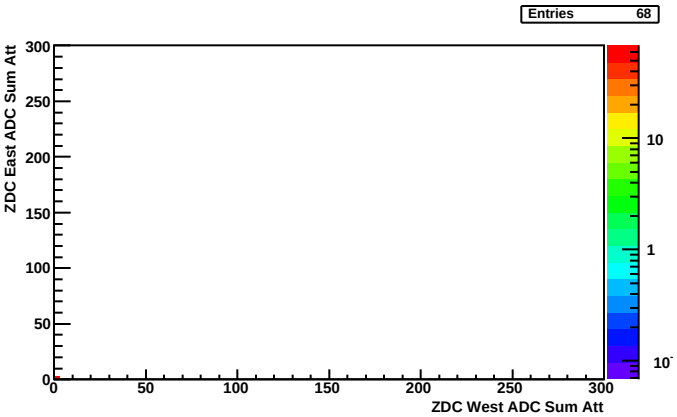

Entries 68
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

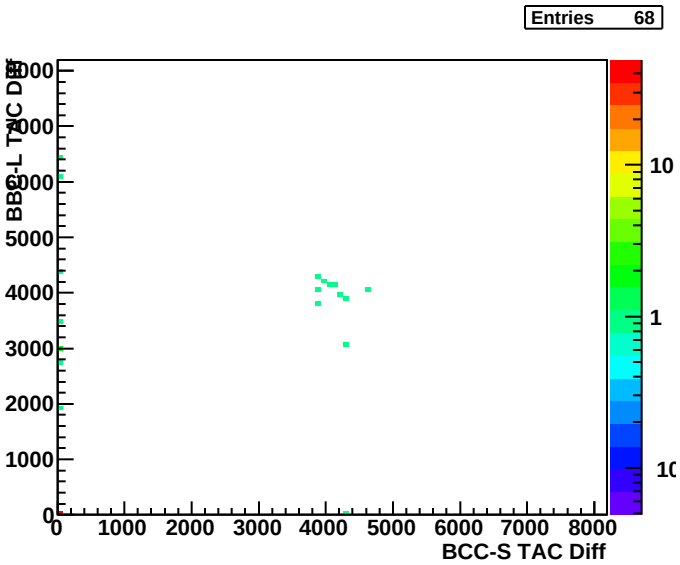

Entries 68
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

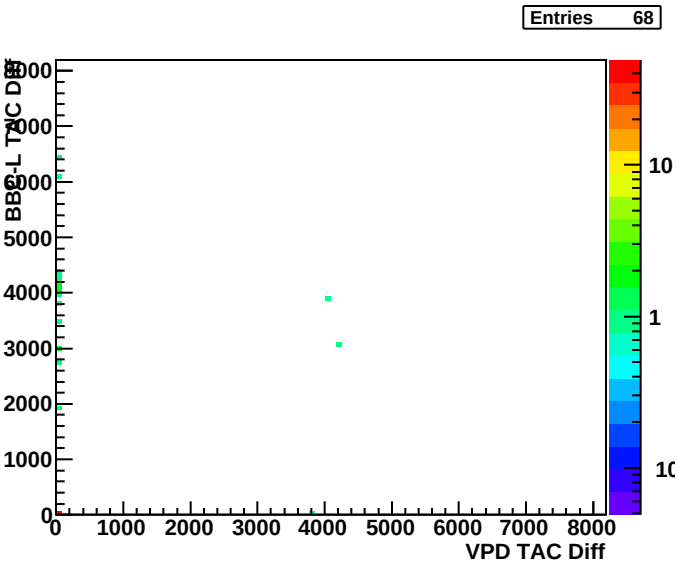

Entries 68
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

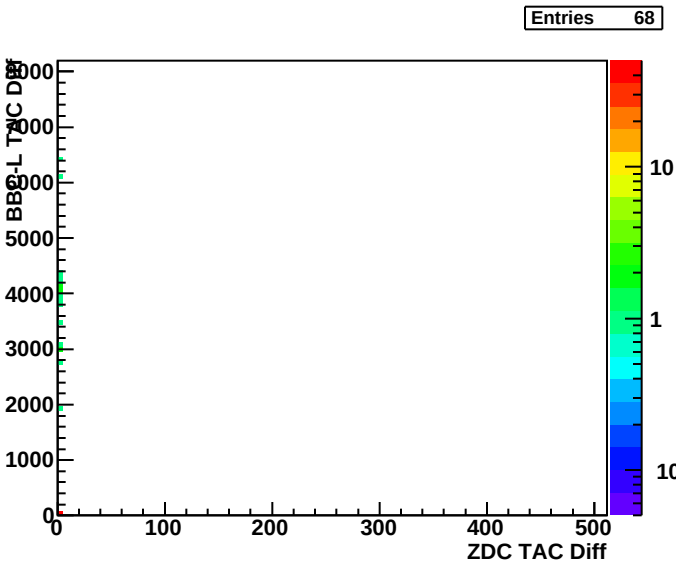

Entries 68
BBC-L-East ADC Sum
BBC-L-West ADC Sum

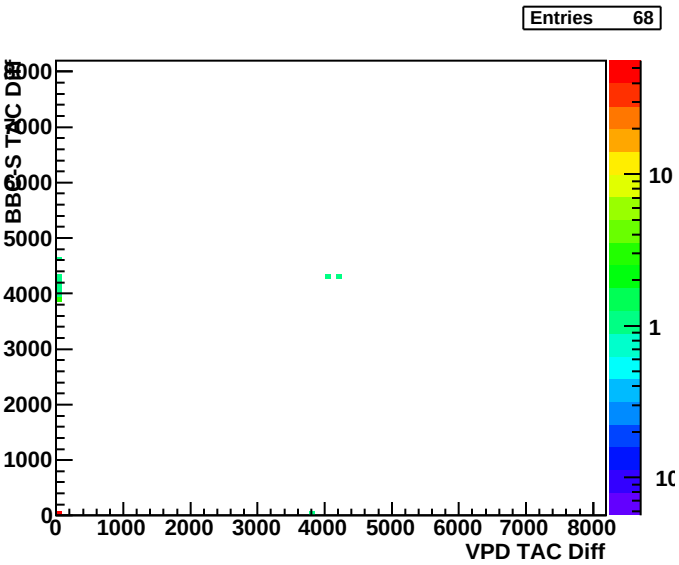

Entries 68
BBC-S-East ADC Sum
BBC-S-West ADC Sum

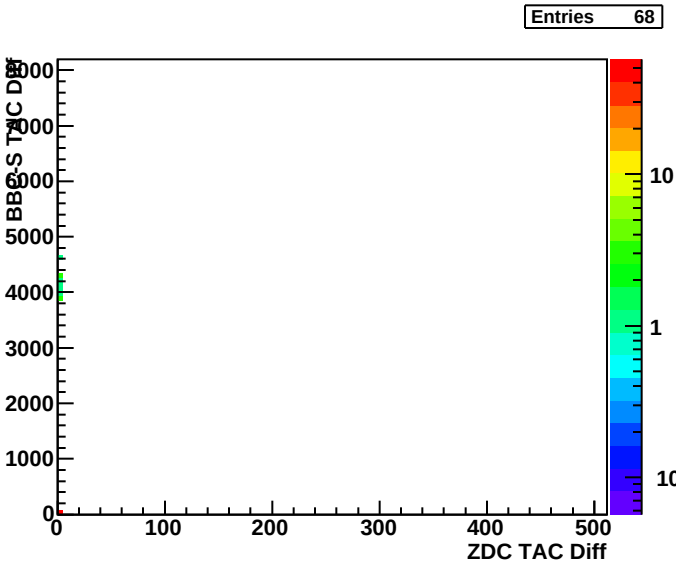

Entries 68
ZDC East ADC Sum Att
ZDC West ADC Sum Att

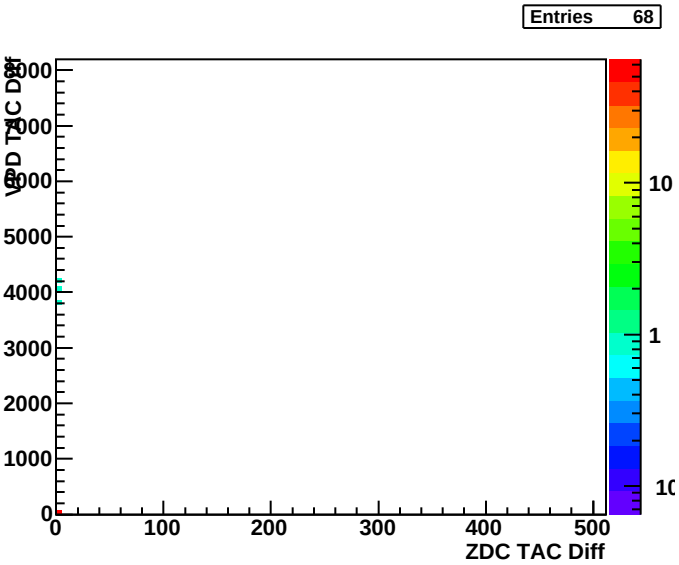

Entries 68
BBC-L TAC Diff
BCC-S TAC Diff

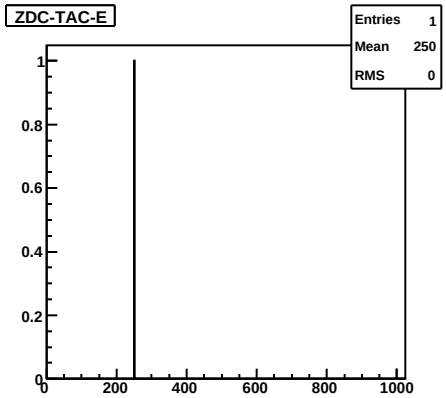

Entries 68
BBC-L TAC Diff
VPD TAC Diff

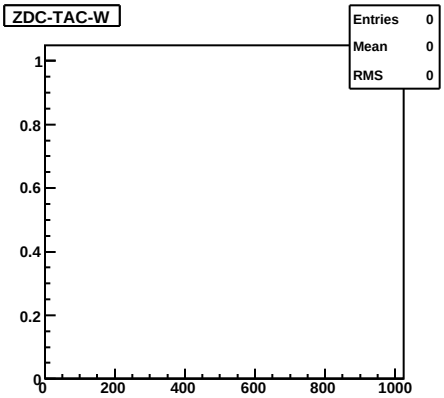

Entries 68
BBC-L TAC Diff
ZDC TAC Diff

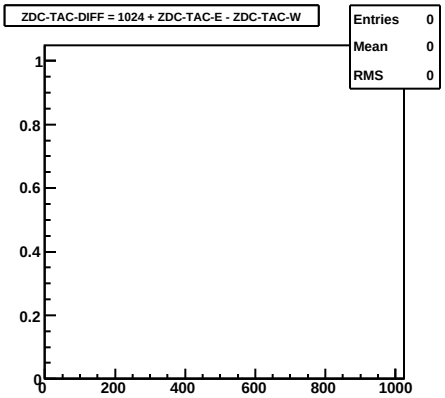

Entries 68
BBC-S TAC Diff
VPD TAC Diff

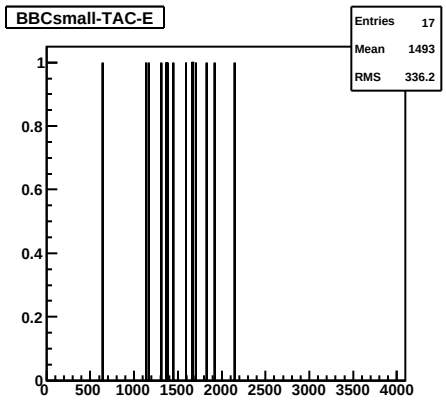

Entries 68
BBC-S TAC Diff
ZDC TAC Diff

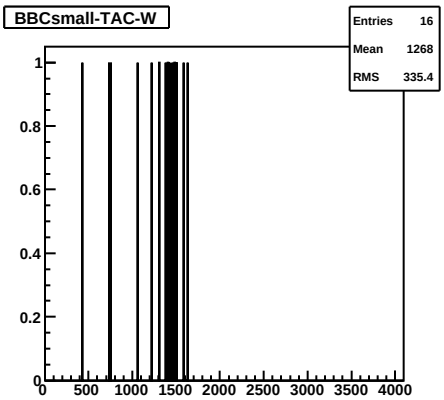

Entries 68
VPD TAC Diff
ZDC TAC Diff

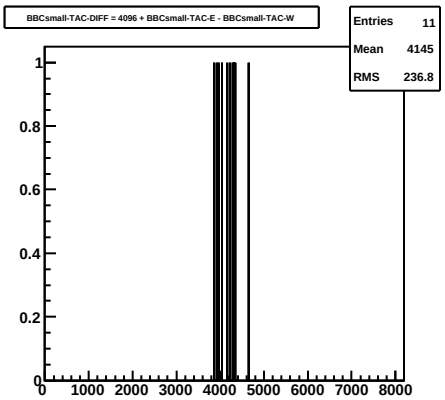

ZDC-TAC-E
Entries 1
Mean 250
RMS 0

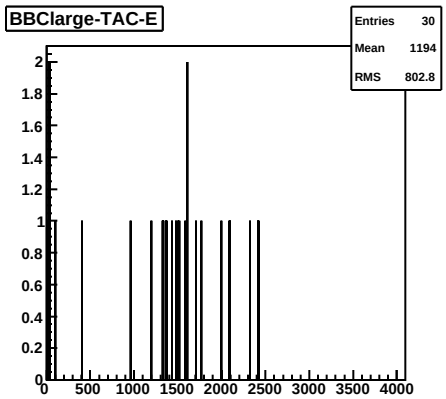

ZDC-TAC-W
Entries 0
Mean 0
RMS 0

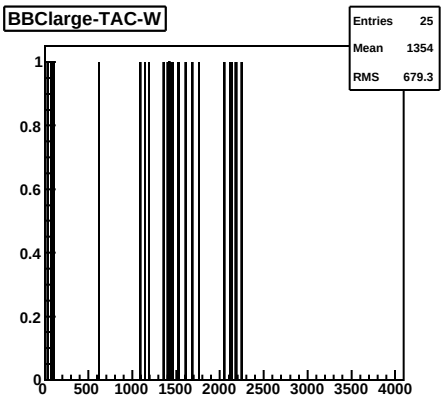

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 0
Mean 0
RMS 0

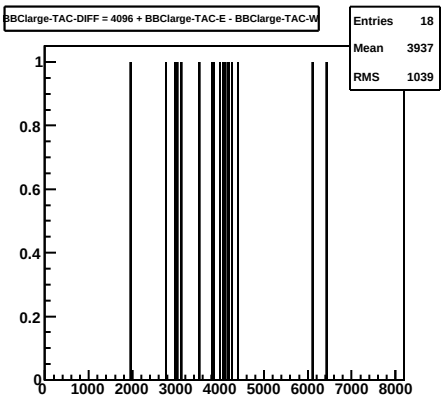

BBCsmall-TAC-E
Entries 17
Mean 1493
RMS 336.2

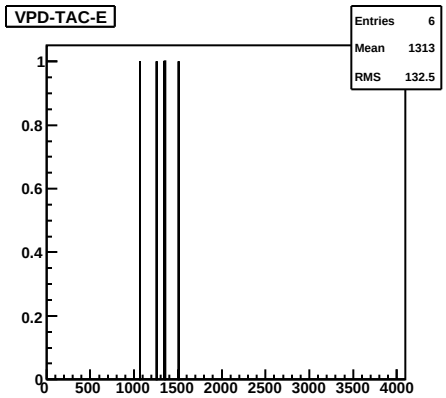

BBCsmall-TAC-W
Entries 16
Mean 1268
RMS 335.4

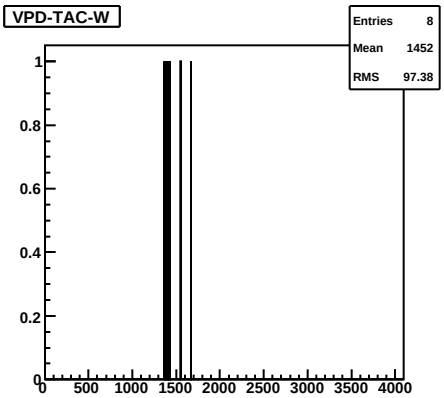

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 11
Mean 4145
RMS 236.8

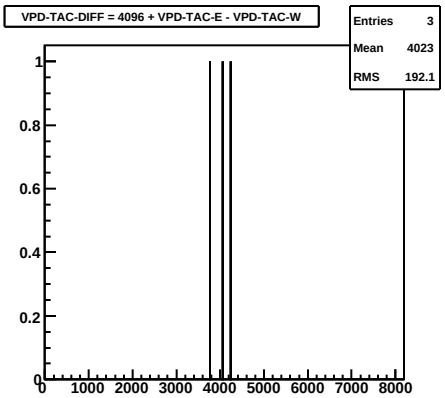

BBClarge-TAC-E
Entries 30
Mean 1194
RMS 802.8

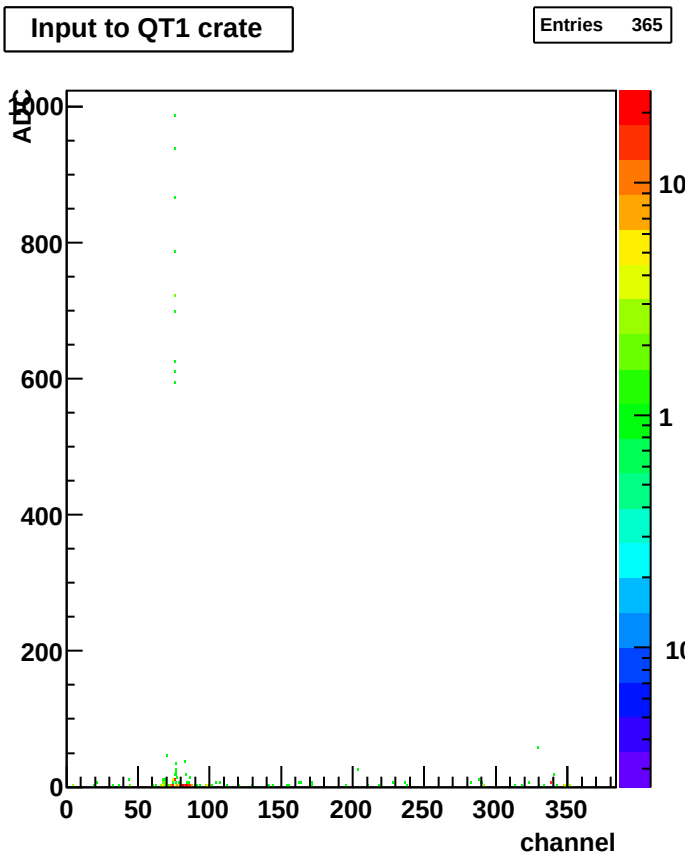

BBClarge-TAC-W
Entries 25
Mean 1354
RMS 679.3

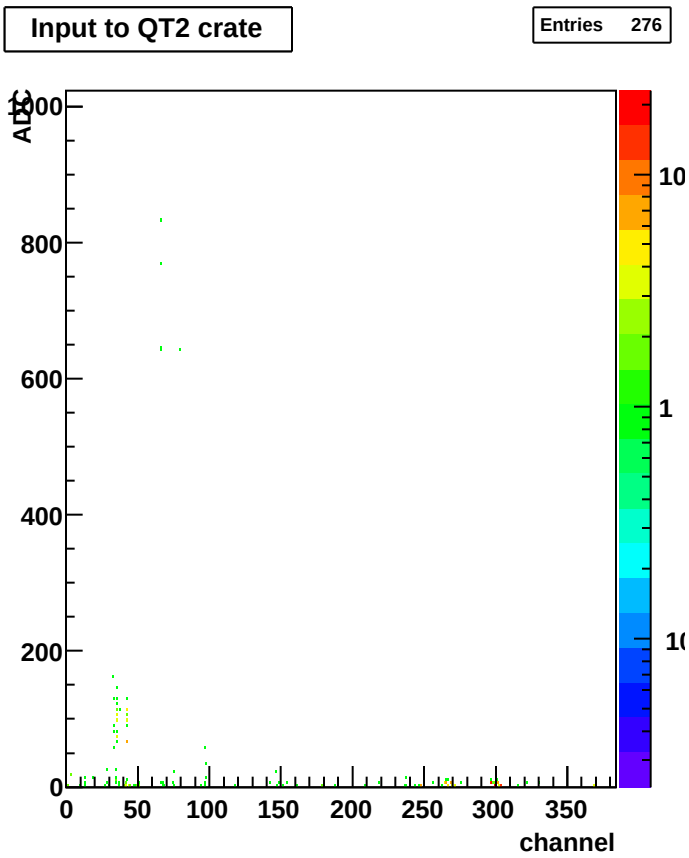

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 18
Mean 3937
RMS 1039

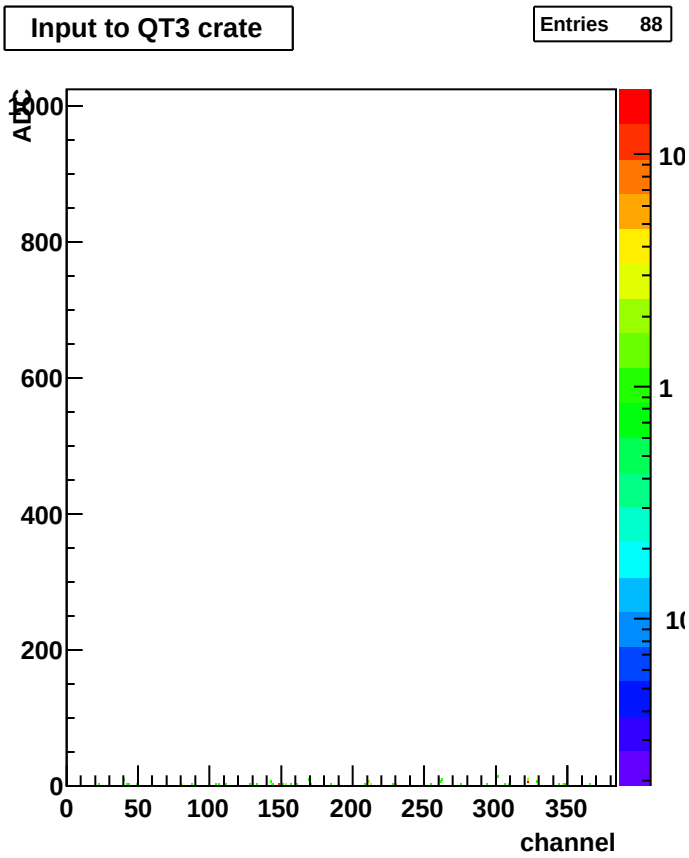

VPD-TAC-E
Entries 6
Mean 1313
RMS 132.5

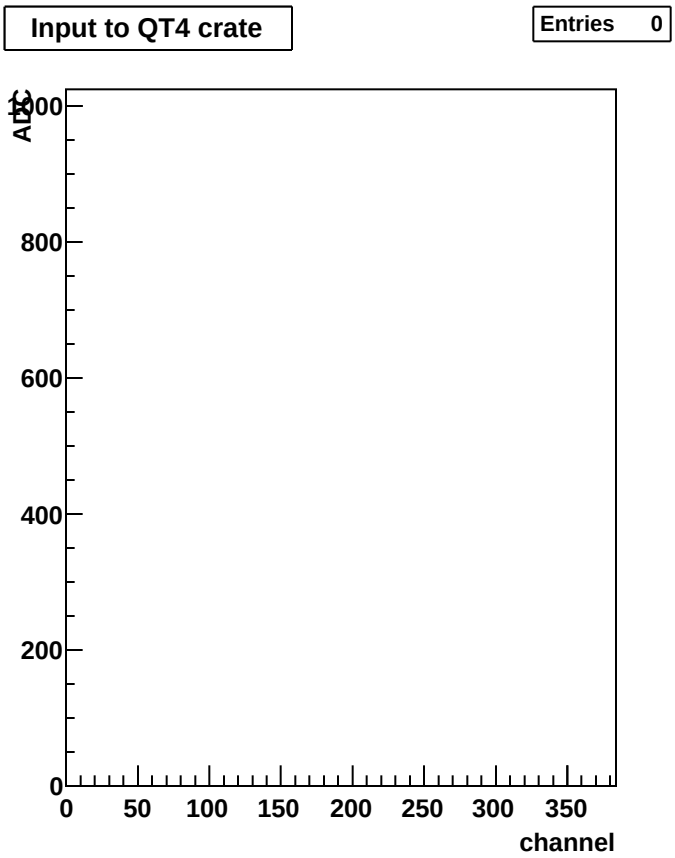

VPD-TAC-W
Entries 8
Mean 1452
RMS 97.38

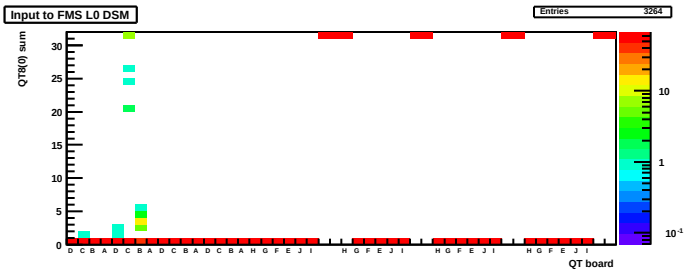

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 3
Mean 4023
RMS 192.1

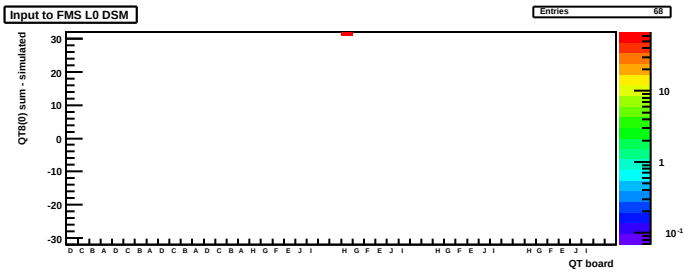

Input to QT1 crate
Entries 365
ADC
channel

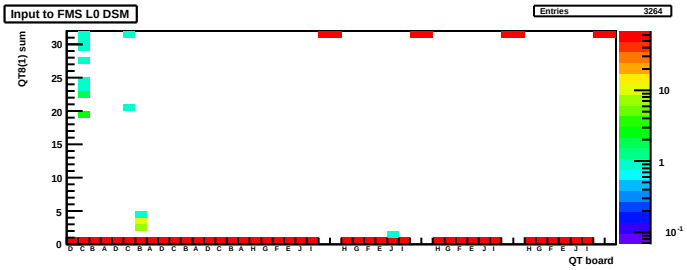

Input to QT2 crate
Entries 276
ADC
channel

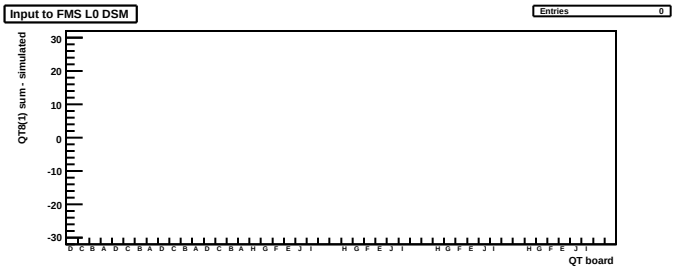

Input to QT3 crate
Entries 88
ADC
channel

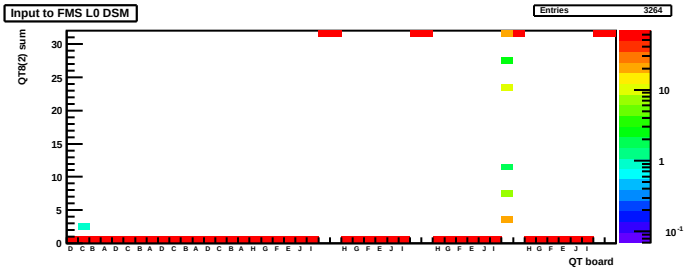

Input to QT4 crate
Entries 0
ADC
channel

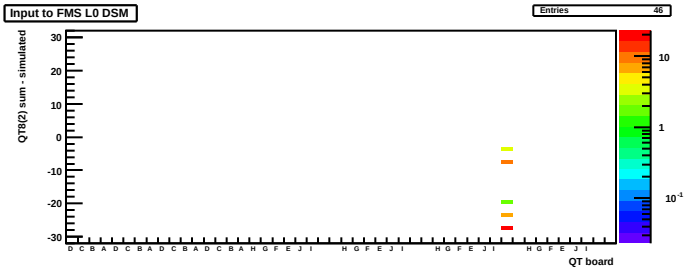

Input to FMS L0 DSM
Entries 3264
QT8(0) sum
QT board

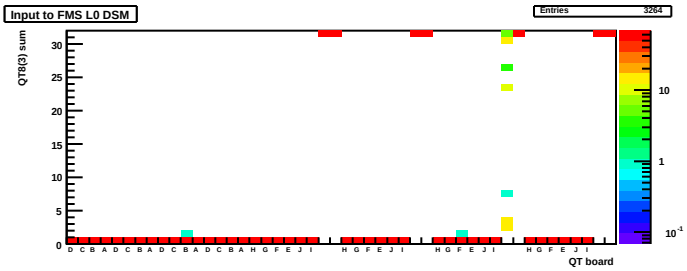

Input to FMS L0 DSM
Entries 68
QT8(0) sum - simulated
QT board

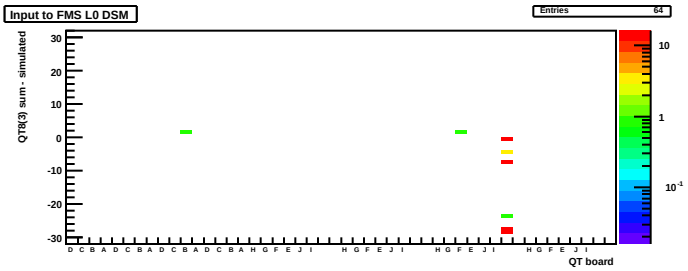

Input to FMS L0 DSM
Entries 3264
QT8(1) sum
QT board

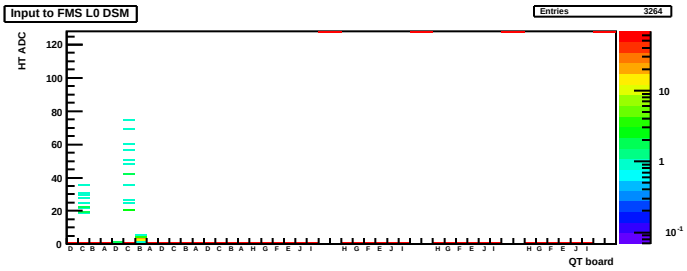

Input to FMS L0 DSM
Entries 0
QT8(1) sum - simulated
QT board

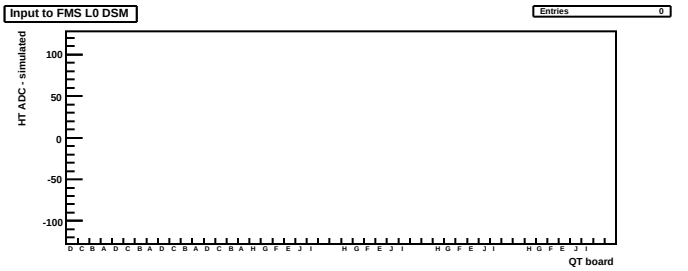

Input to FMS L0 DSM
Entries 3264
QT8(2) sum
QT board

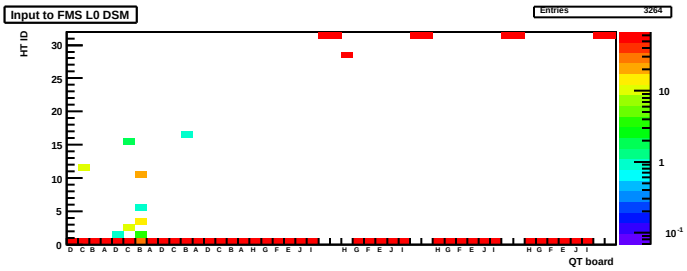

Input to FMS L0 DSM
Entries 46
QT8(2) sum - simulated
QT board

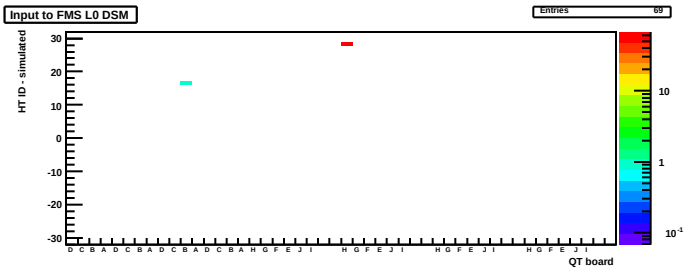

Input to FMS L0 DSM
Entries 3264
QT8(3) sum
QT board

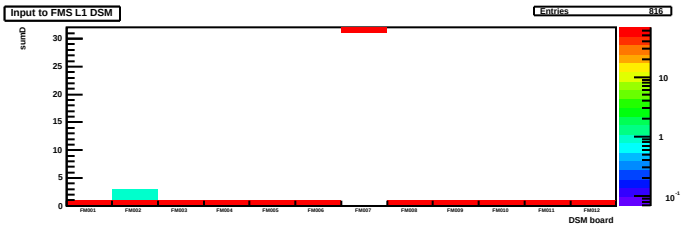

Input to FMS L0 DSM
Entries 64
QT8(3) sum - simulated
QT board

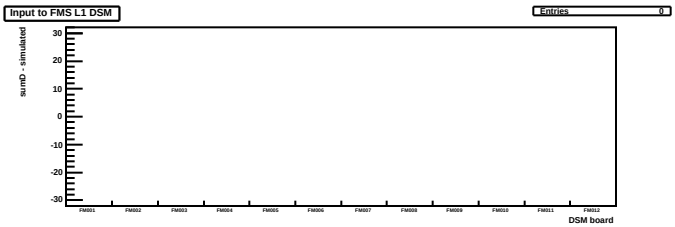

Input to FMS L0 DSM
Entries 3264
HT ADC
QT board

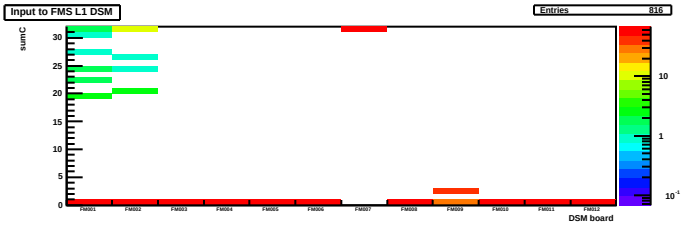

Input to FMS L0 DSM
Entries 0
HT ADC - simulated
QT board

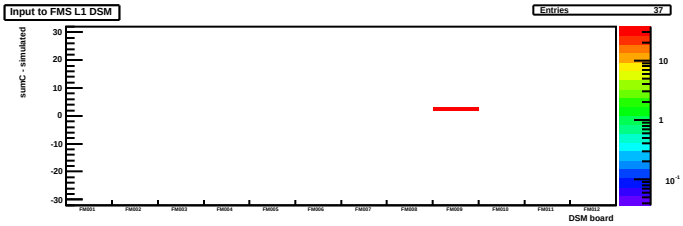

Input to FMS L0 DSM
Entries 3264
HT ID
QT board

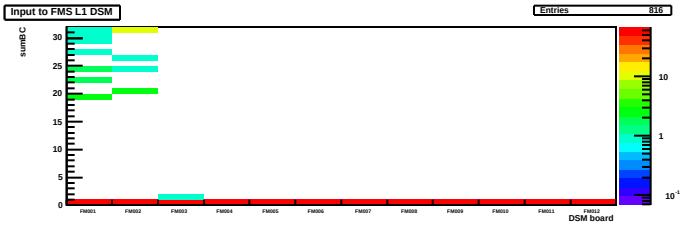

Input to FMS L0 DSM
Entries 69
HT ID - simulated
QT board

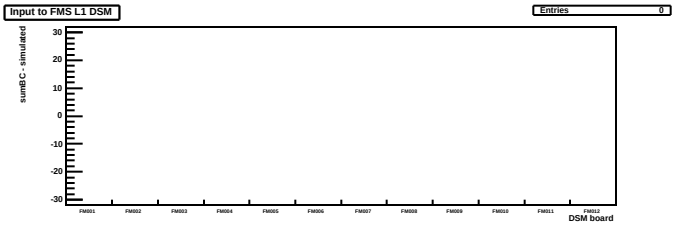

Input to FMS L1 DSM
Entries 816
sumD
DSM board

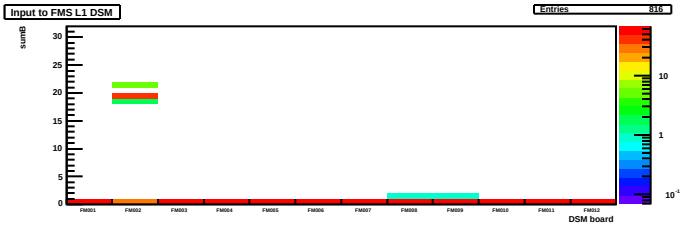

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

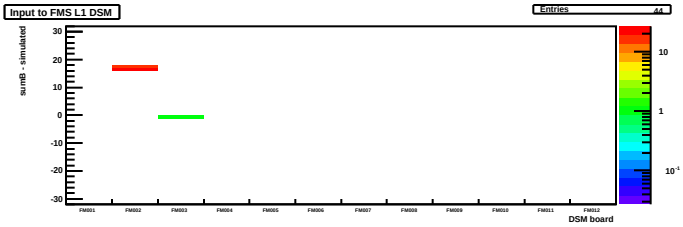

Input to FMS L1 DSM
Entries 816
sumC
DSM board

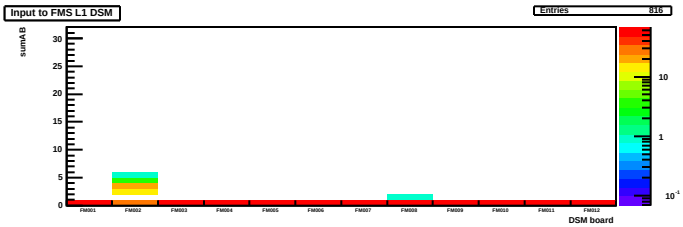

Input to FMS L1 DSM
Entries 37
sumC - simulated
DSM board

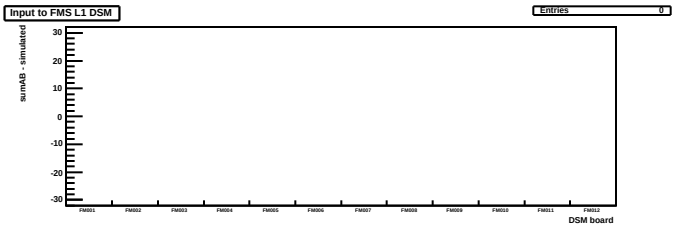

Input to FMS L1 DSM
Entries 816
sumBC
DSM board

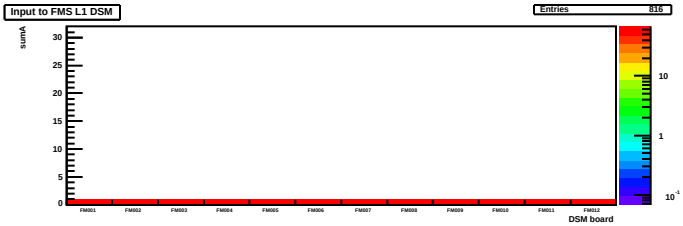

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

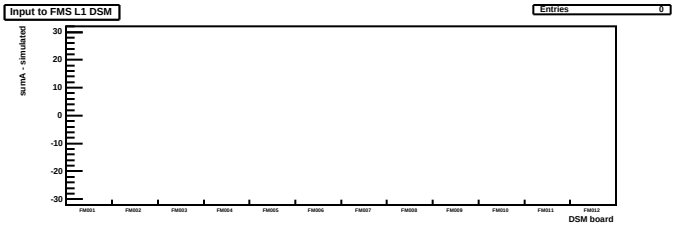

Input to FMS L1 DSM
Entries 816
sumB
DSM board

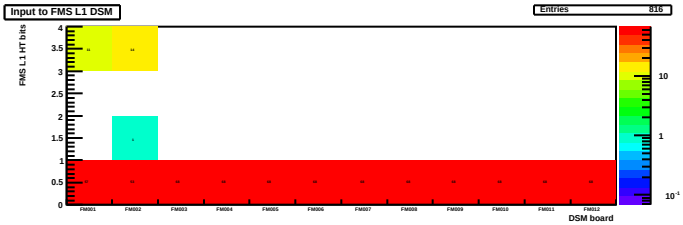

Input to FMS L1 DSM
Entries 44
sumB - simulated
DSM board

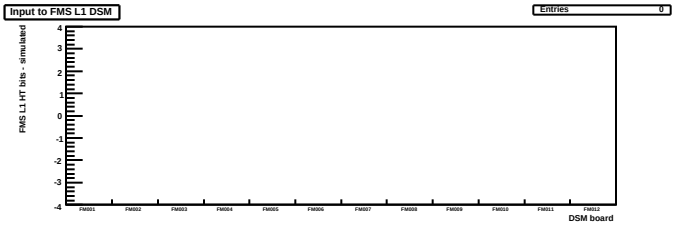

Input to FMS L1 DSM
Entries 816
sumAB
DSM board

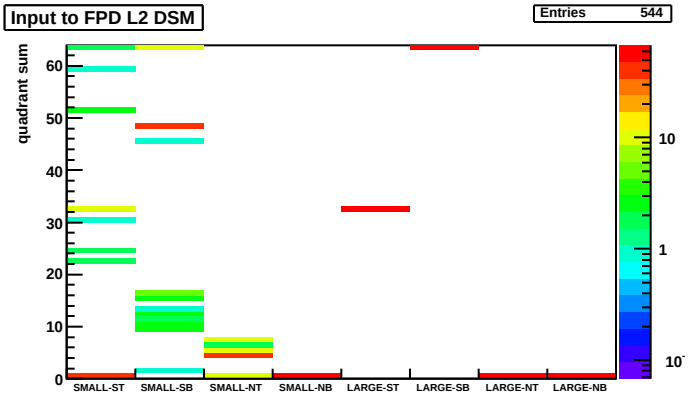

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

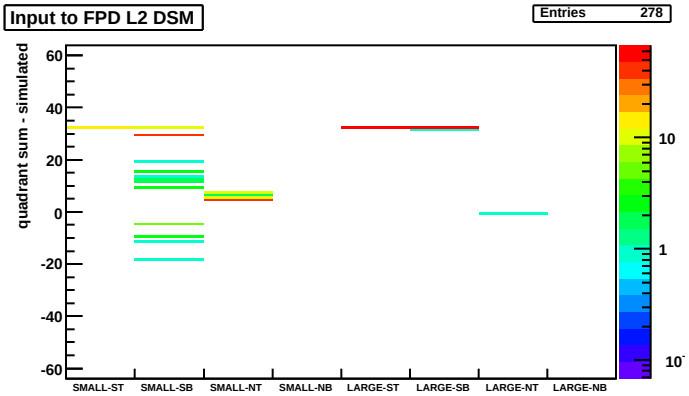

Input to FMS L1 DSM
Entries 816
sumA
DSM board

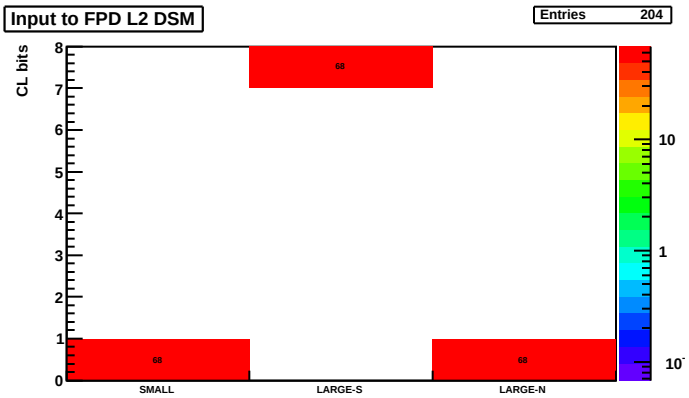

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

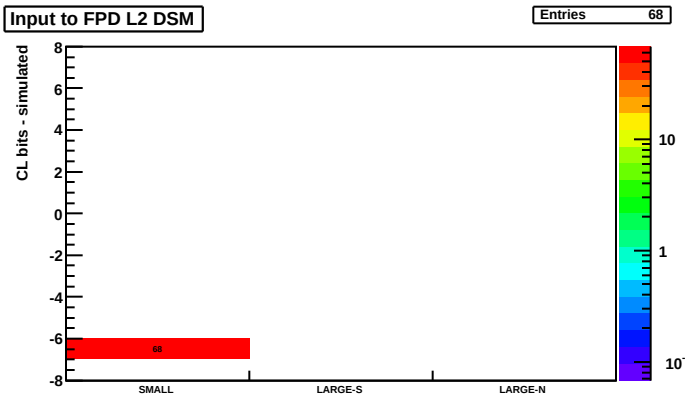

Input to FMS L1 DSM
Entries 816
FMS L1 HT bits
DSM board

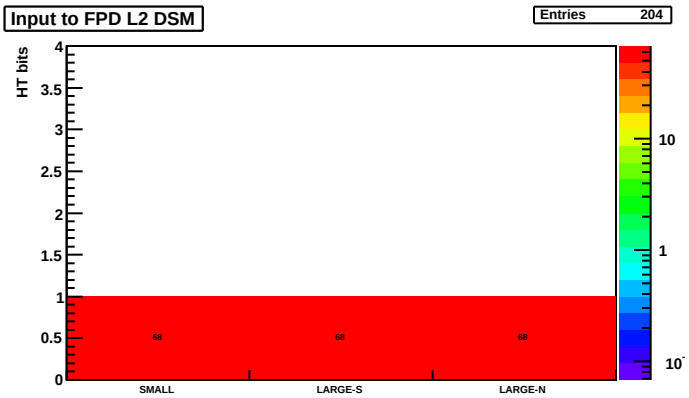

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

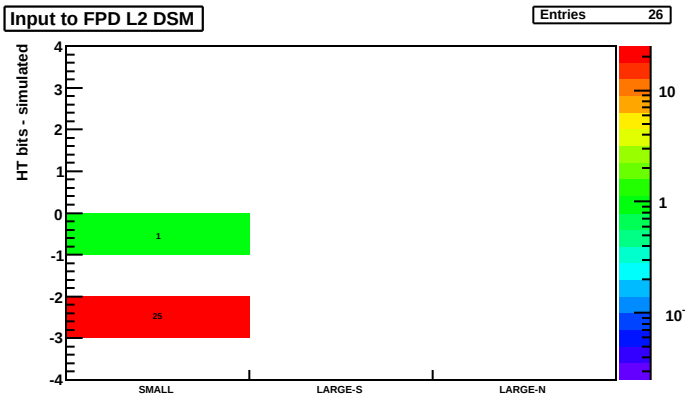

Input to FPD L2 DSM
Entries 544
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

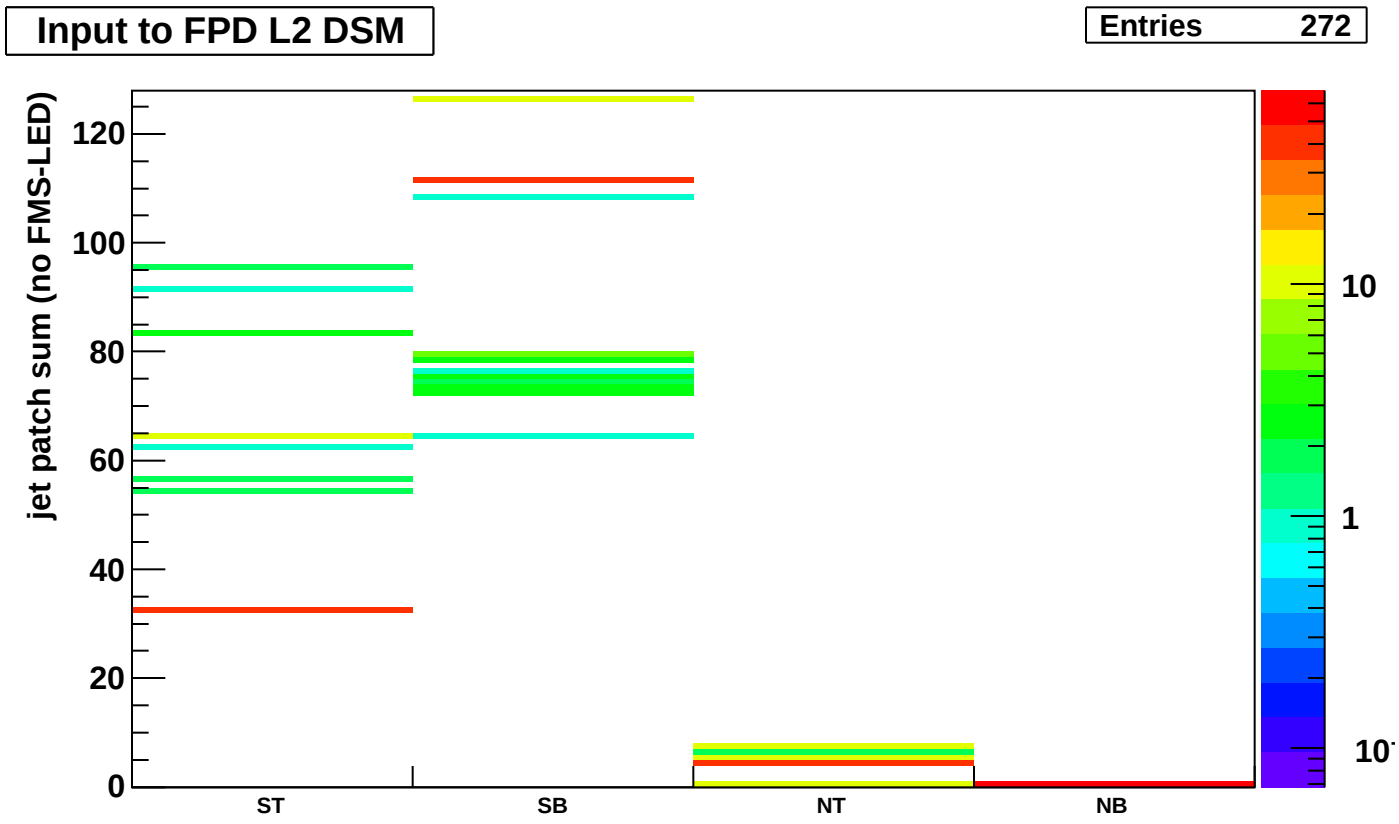

Input to FPD L2 DSM
Entries 278
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

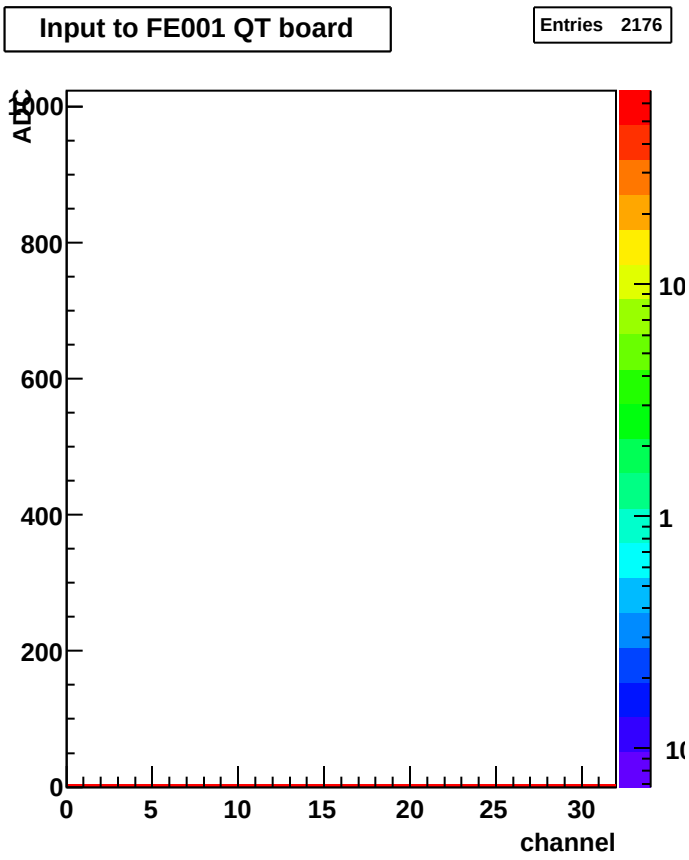

Input to FPD L2 DSM
Entries 204
CL bits
68
68
68
SMALL
LARGE-S
LARGE-N

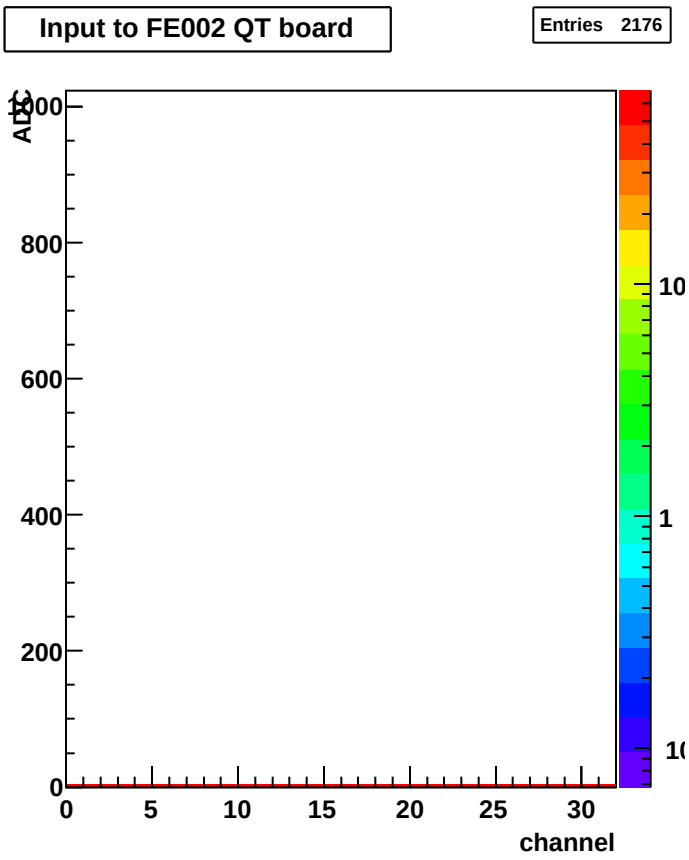

Input to FPD L2 DSM
Entries 68
CL bits - simulated
68
SMALL
LARGE-S
LARGE-N

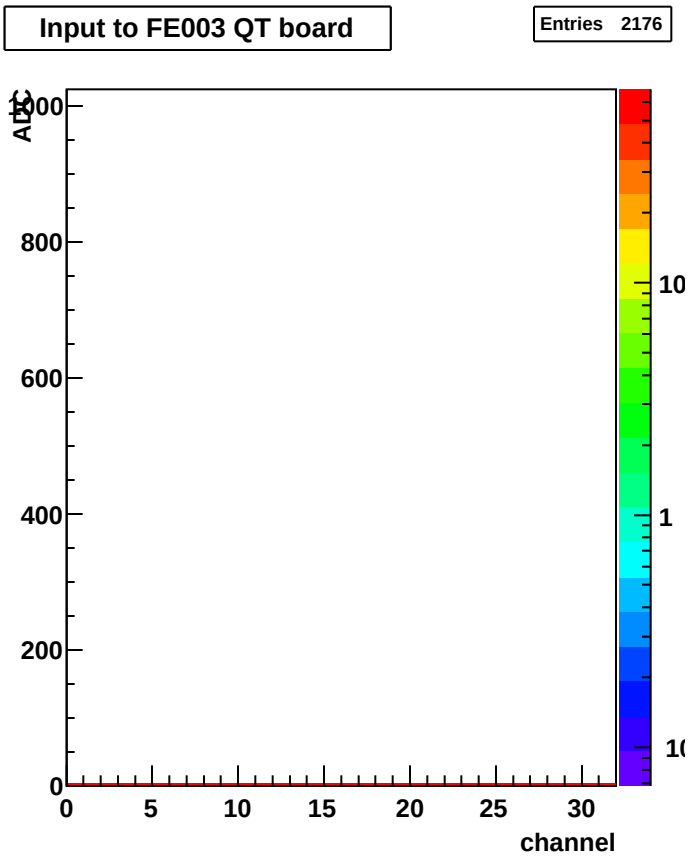

Input to FPD L2 DSM
Entries 204
HT bits
68
68
68
SMALL
LARGE-S
LARGE-N

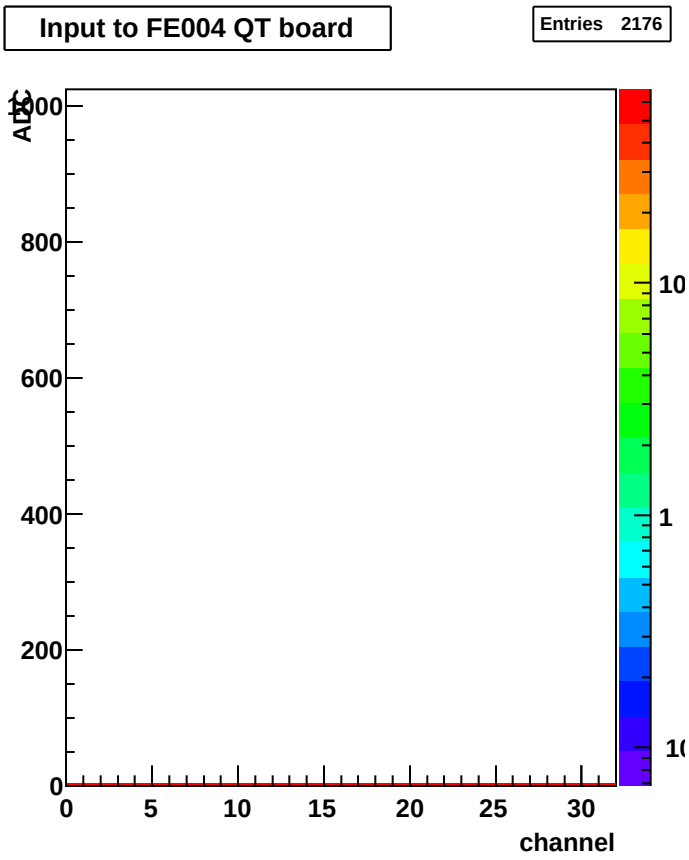

Input to FPD L2 DSM
Entries 26
HT bits - simulated
1
25
SMALL
LARGE-S
LARGE-N

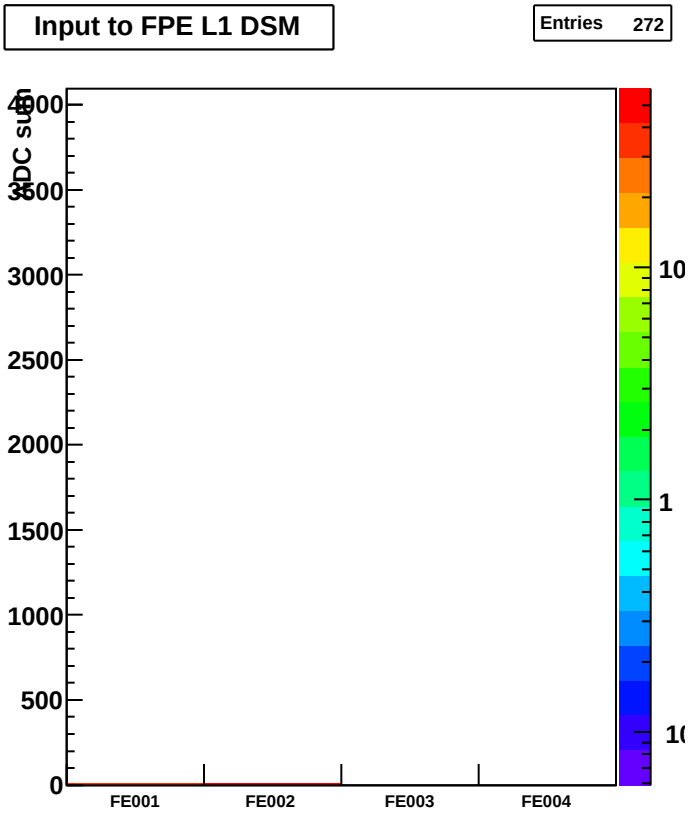

Input to FPD L2 DSM
Entries 272
jet patch sum (no FMS-LED)
120
100
80
60
40
20
0
ST
SB
NT
NB
10
1

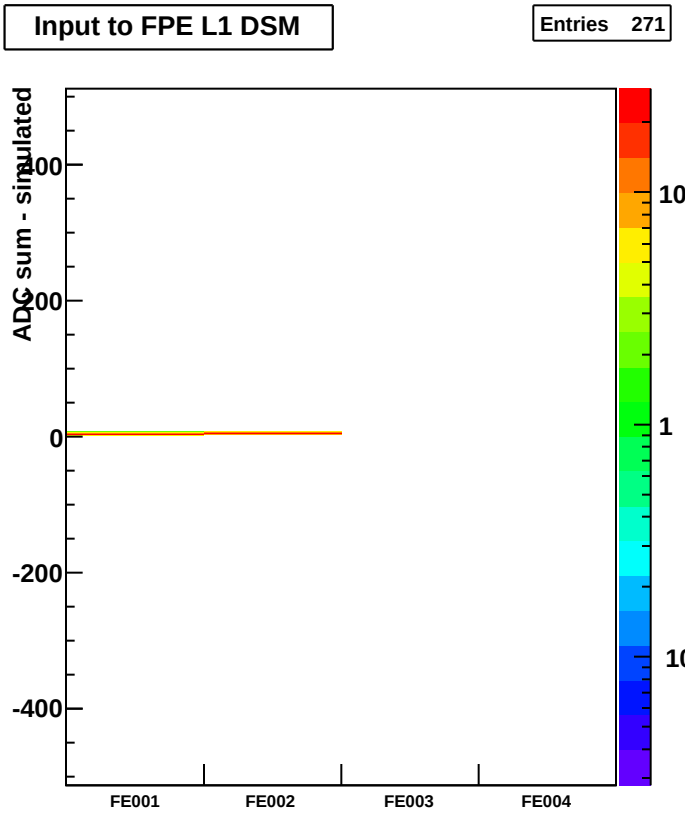

Input to FE001 QT board
Entries 2176
ADC
channel

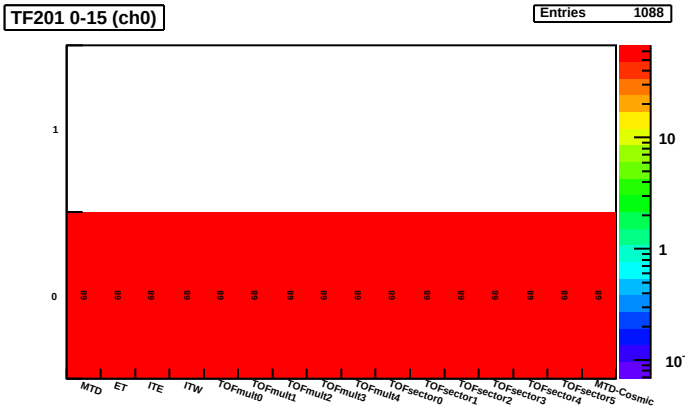

Input to FE002 QT board
Entries 2176
ADC
channel

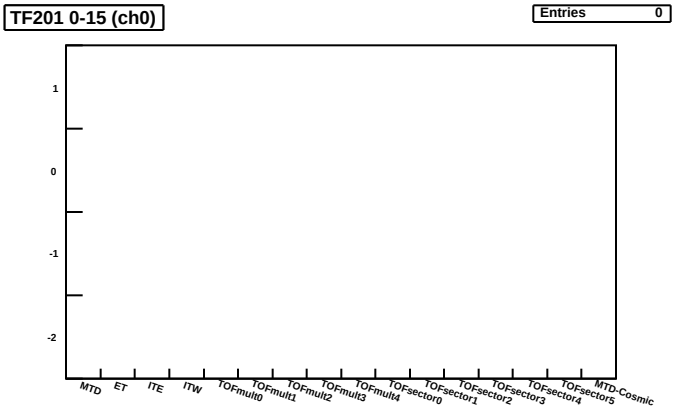

Input to FE003 QT board
Entries 2176
ADC
channel

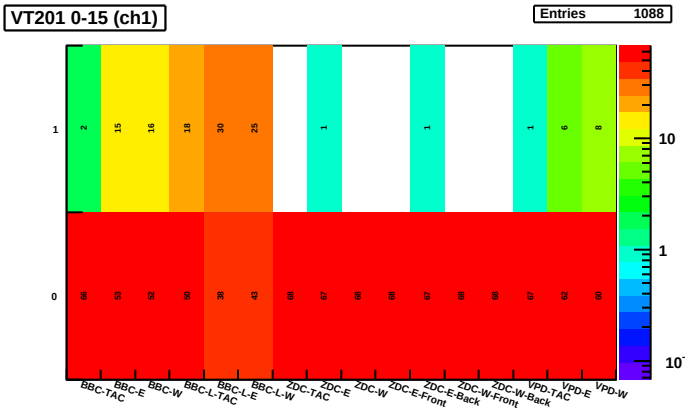

Input to FE004 QT board
Entries 2176
ADC
channel

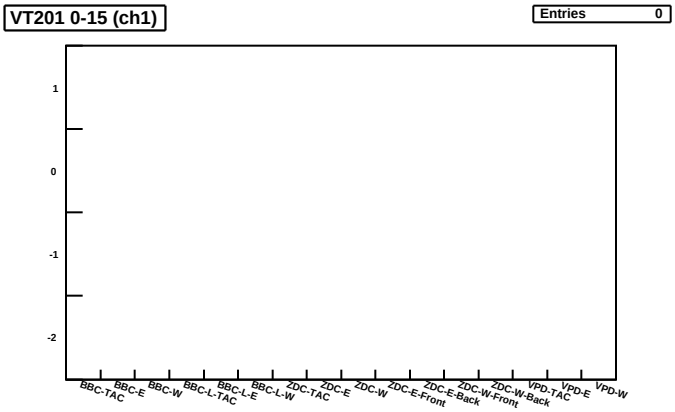

Input to FPE L1 DSM
Entries 272
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
1
10

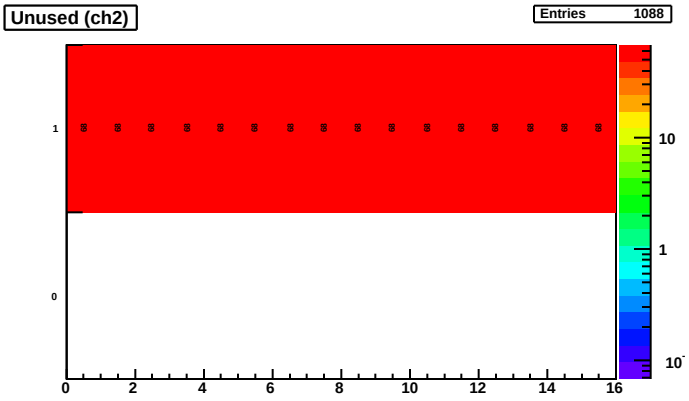

Input to FPE L1 DSM
Entries 271
ADC sum - simulated
200
0
-200
-400
FE001
FE002
FE003
FE004
10
1
10

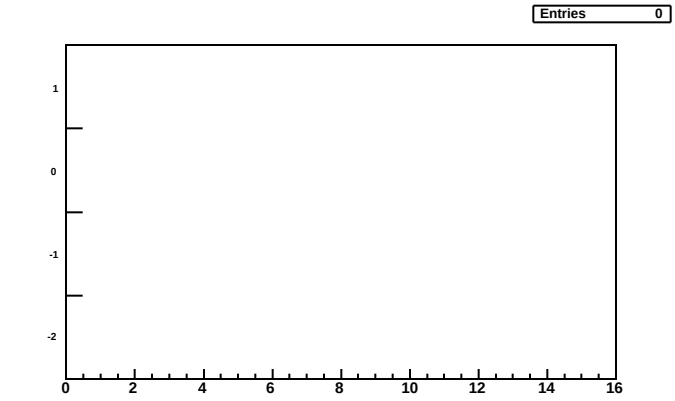

TF201 0-15 (ch0)
Entries 1088
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

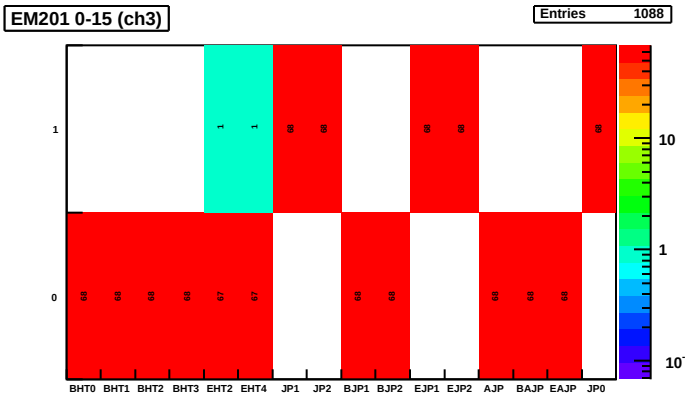

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

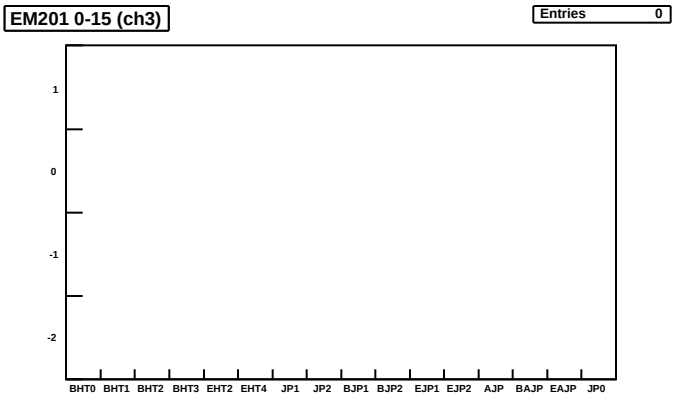

VT201 0-15 (ch1)
Entries 1088
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 0
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

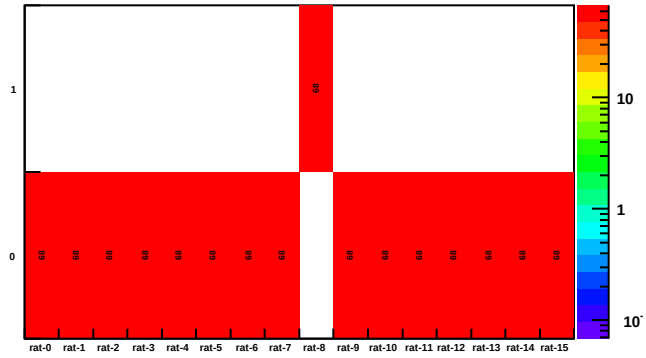

Unused (ch2)
Entries 1088

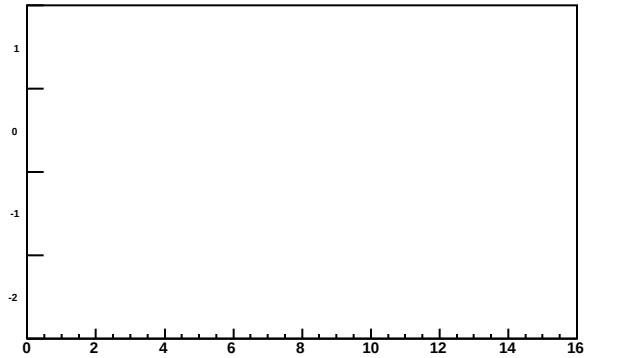

Entries 0


EM201 0-15 (ch3)
Entries 1088
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

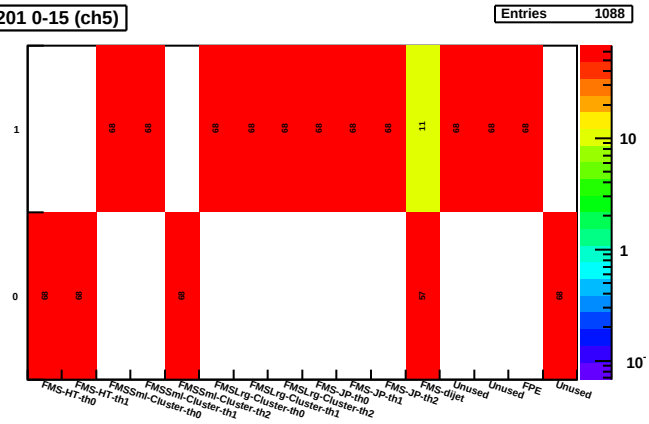

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

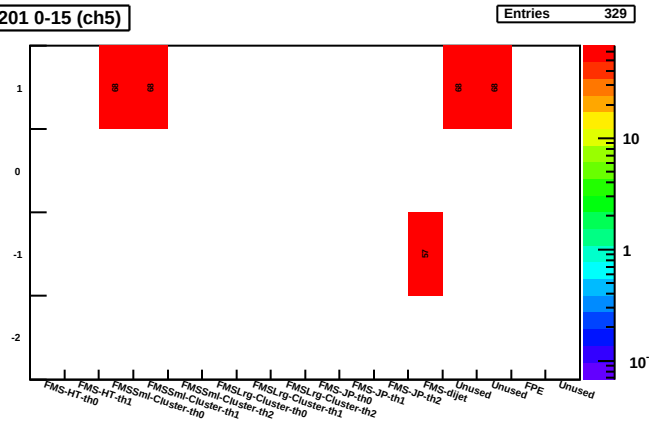




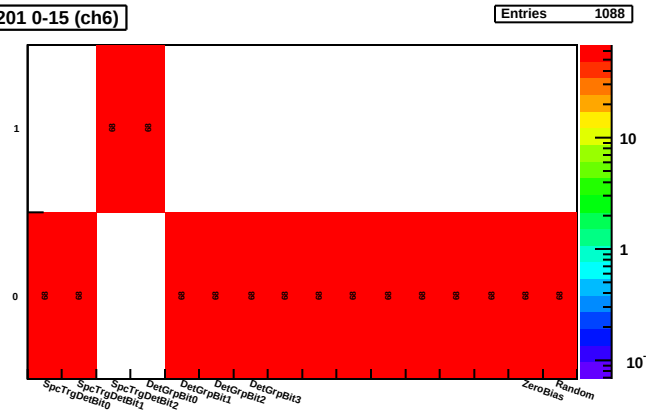
FP201 0-15 (ch5)

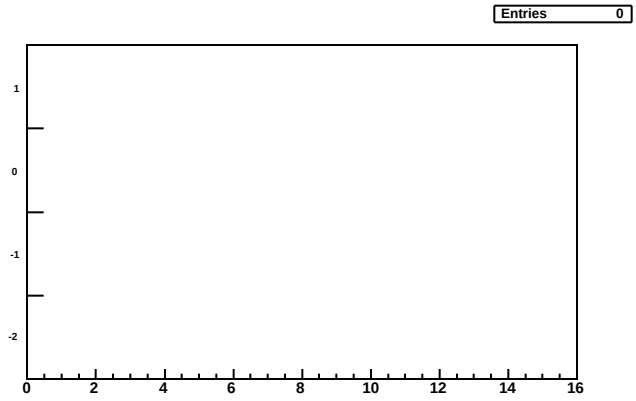
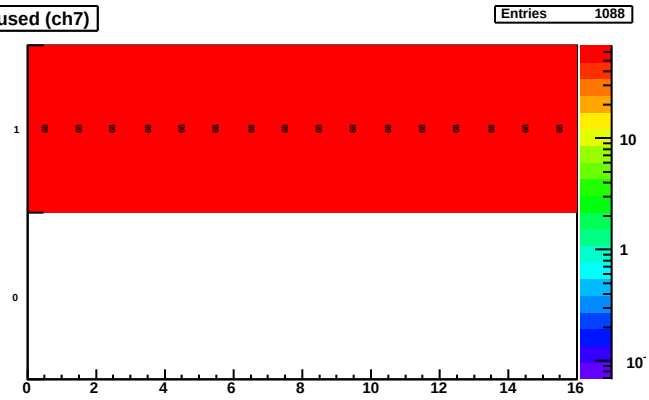
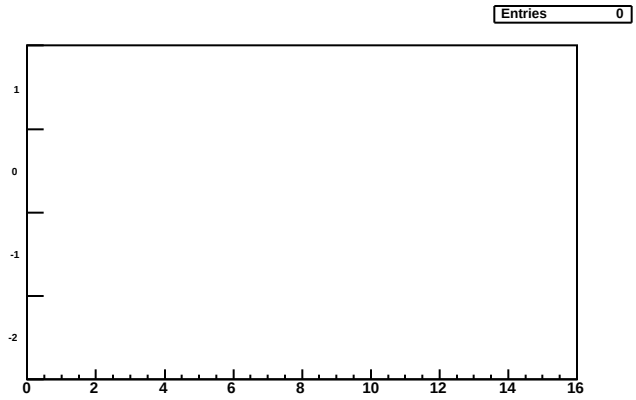


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)