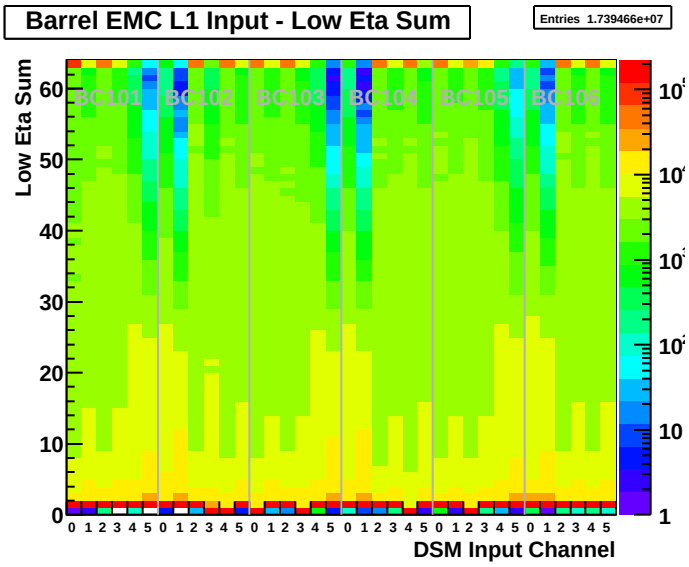
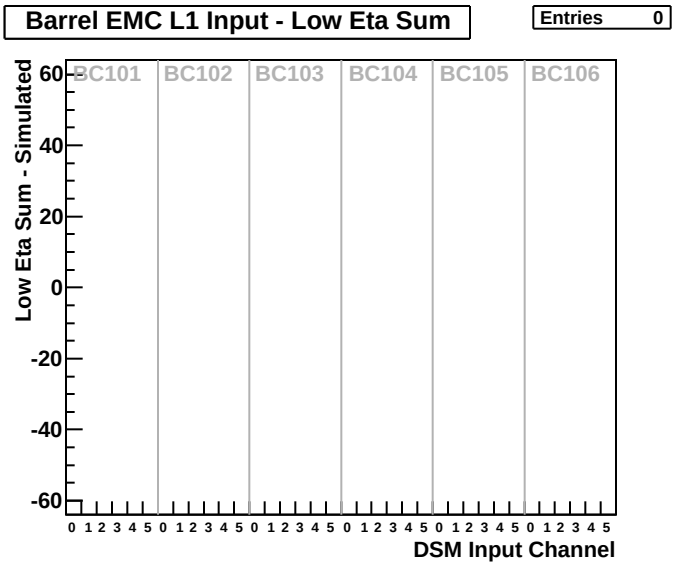
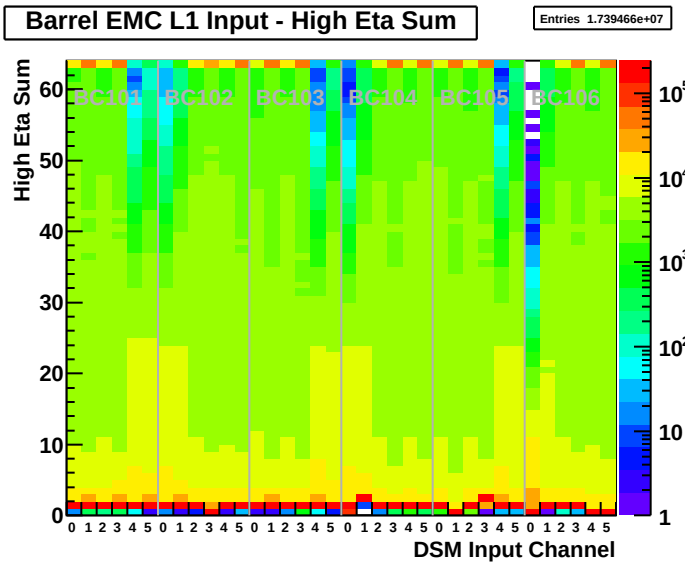
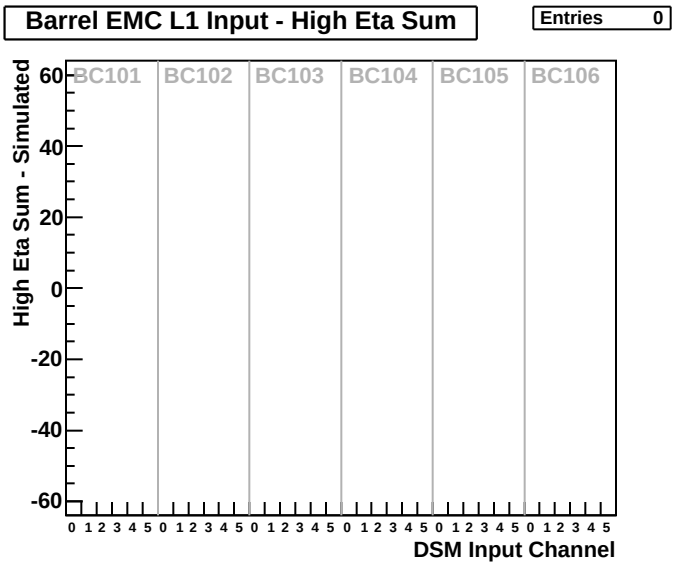
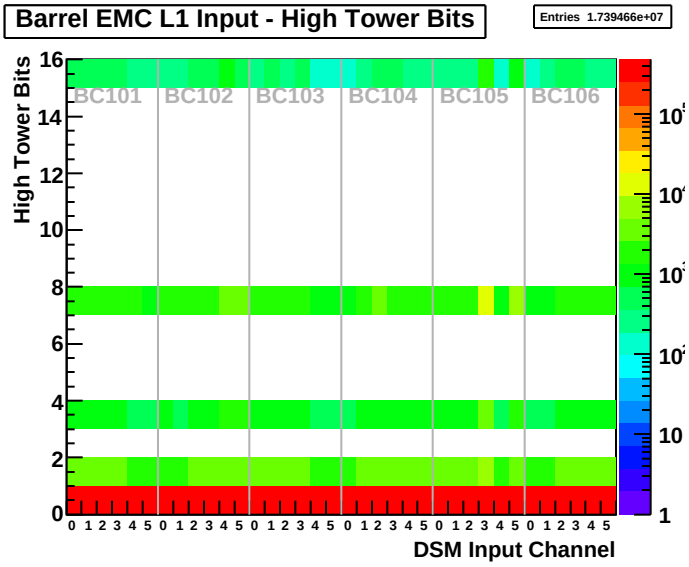
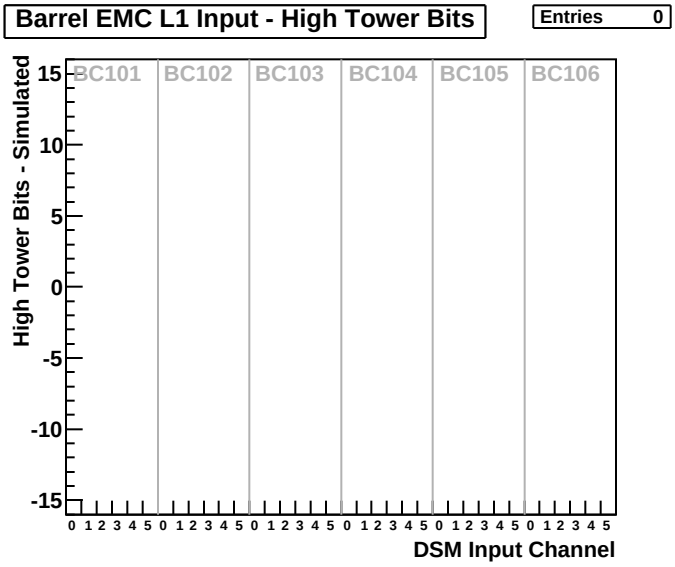

Barrel EMC L1 Input - Low Eta Sum
Entries 1.739466e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

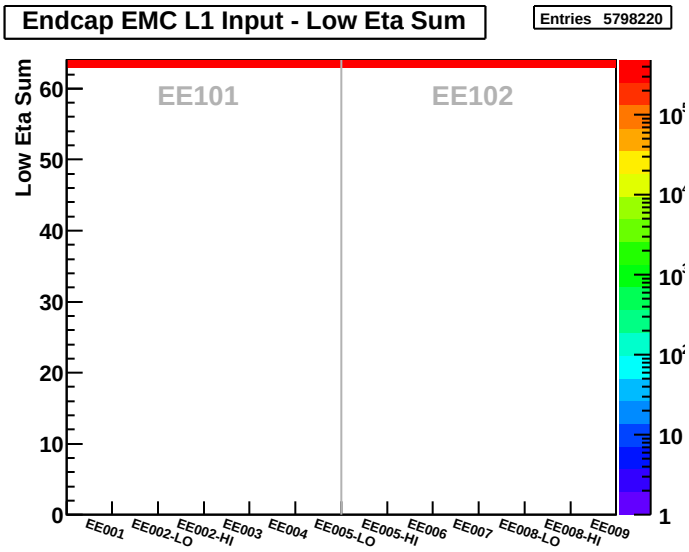

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

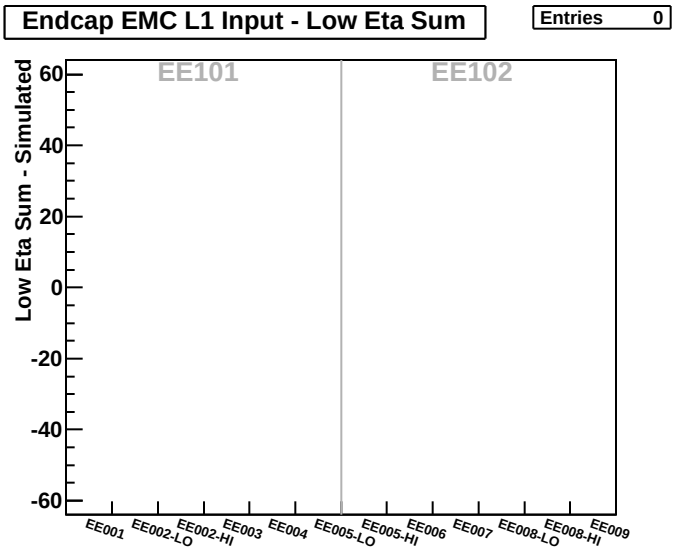

Barrel EMC L1 Input - High Eta Sum
Entries 1.739466e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

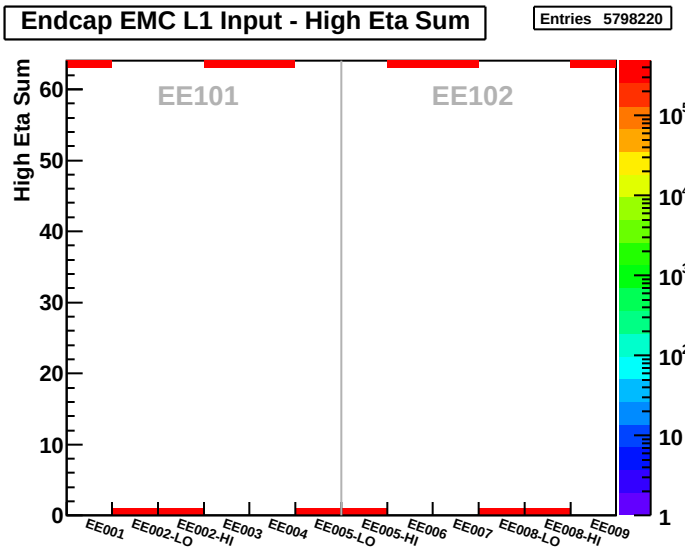

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

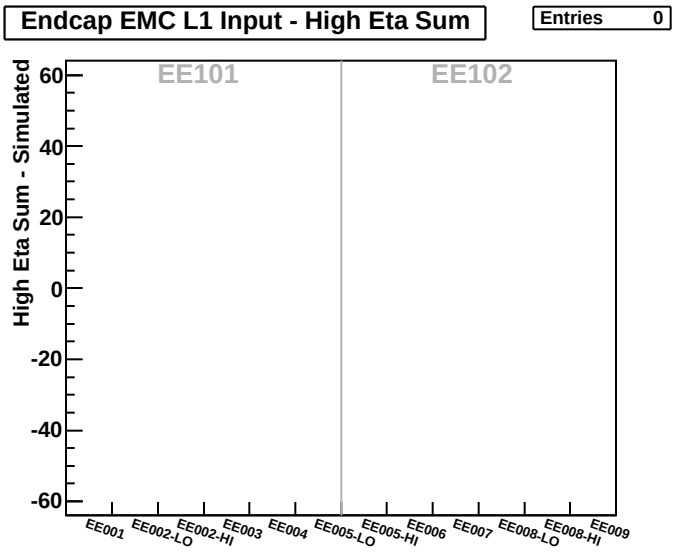

Barrel EMC L1 Input - High Tower Bits
Entries 1.739466e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

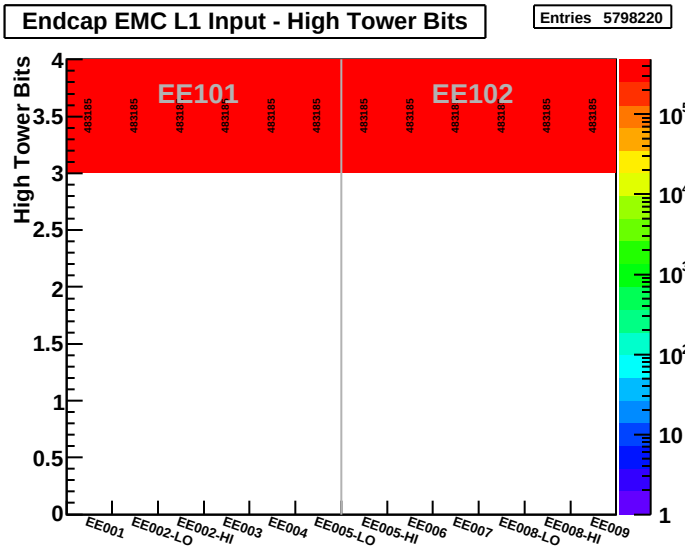

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

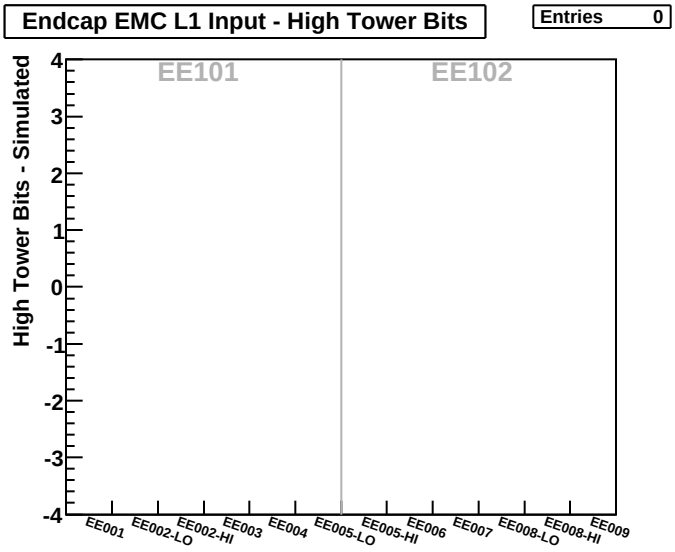

Endcap EMC L1 Input - Low Eta Sum
Entries 5798220
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

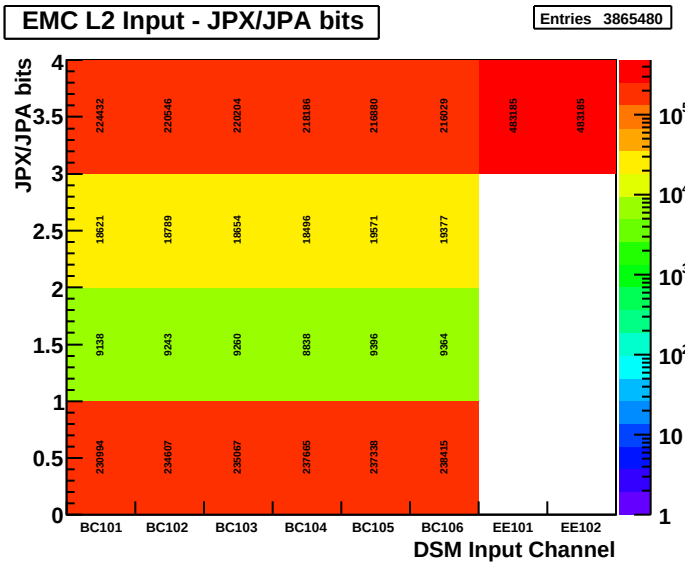

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

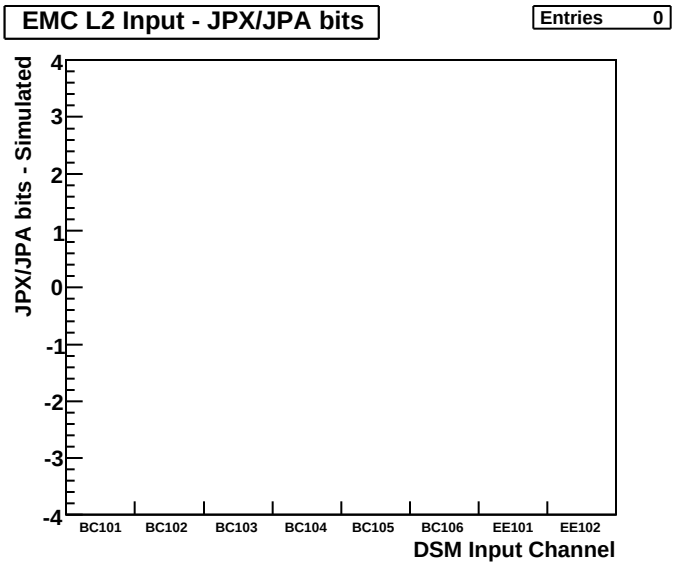

Endcap EMC L1 Input - High Eta Sum
Entries 5798220
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

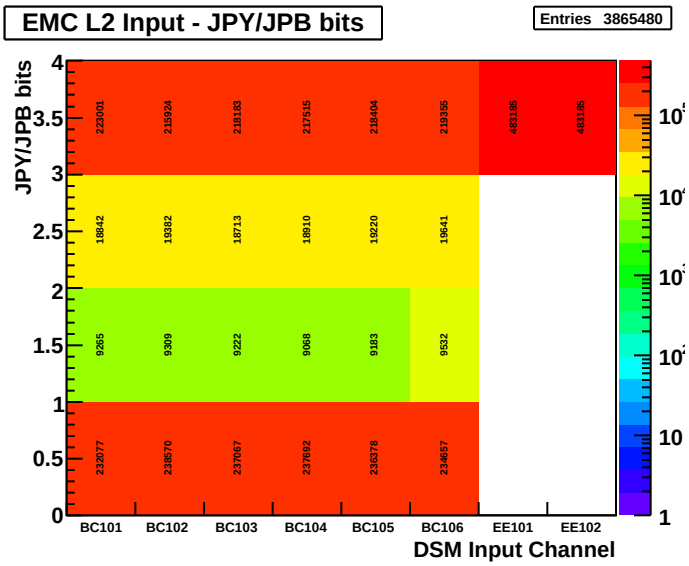

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

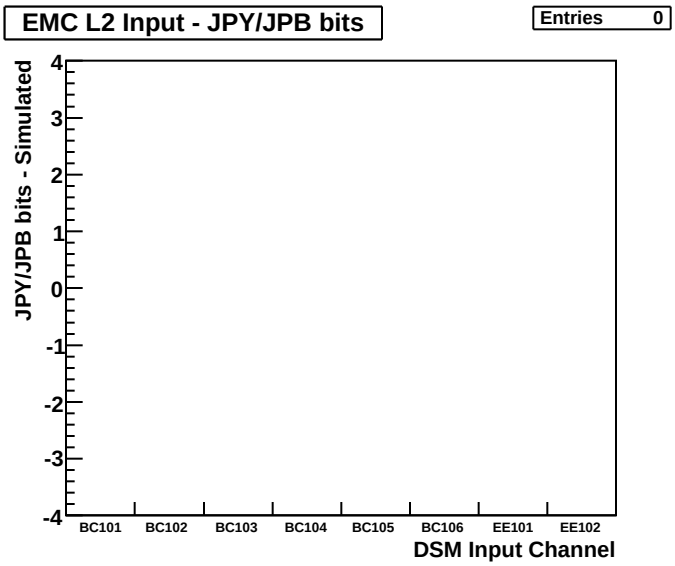

Endcap EMC L1 Input - High Tower Bits
Entries 5798220
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

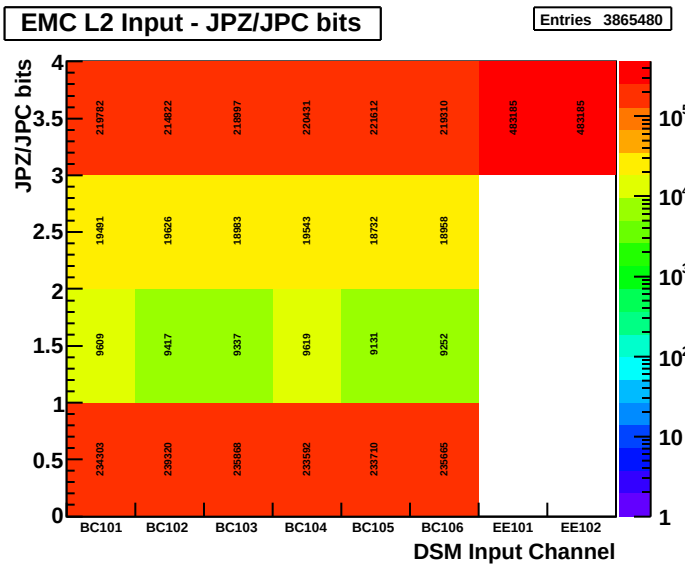

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

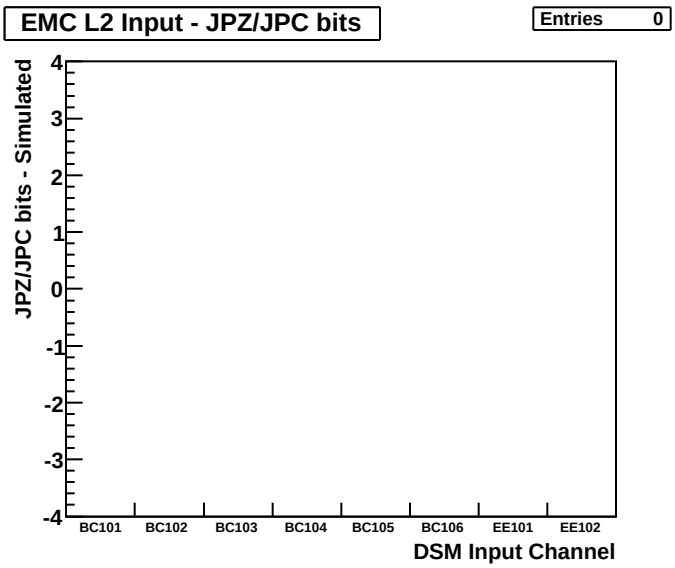

EMC L2 Input - JPX/JPA bits
Entries 3865480
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
224432 220546 220204 218186 216880 216029 483185 483185
18621 18789 18654 18496 18571 18377
9138 9243 9260 8838 9396 9364
230994 234607 235067 237665 237338 238415

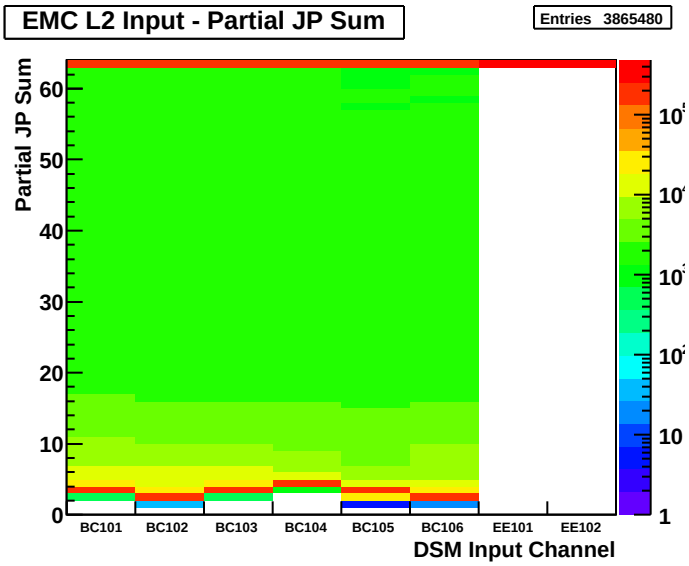

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

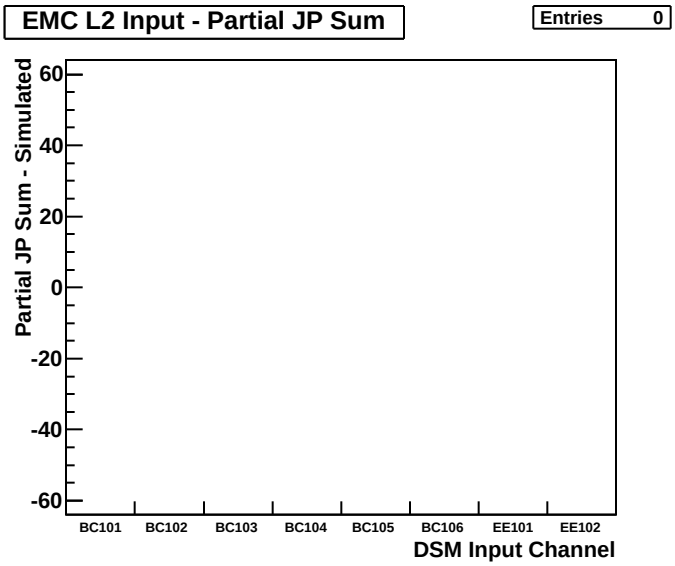

EMC L2 Input - JPY/JPB bits
Entries 3865480
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
223001 215924 218183 217515 218404 219355 483185 483185
18842 19382 18713 18910 19220 19641
9265 9309 9222 9068 9183 9532
232077 238570 237067 237692 236378 234657

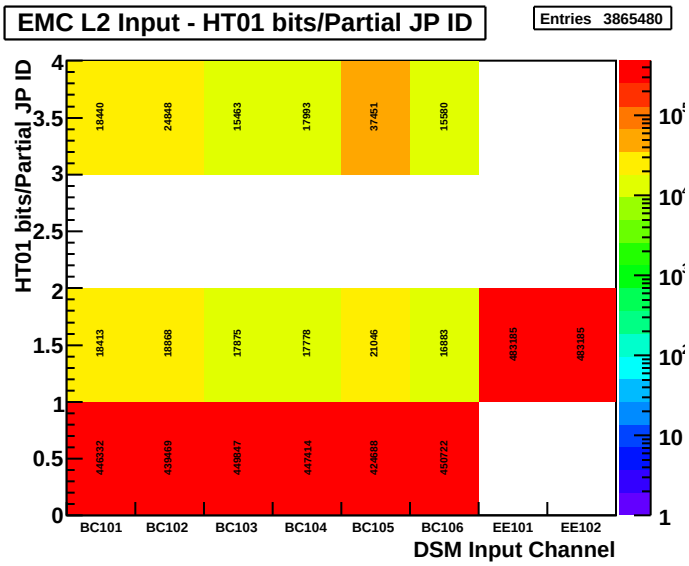

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

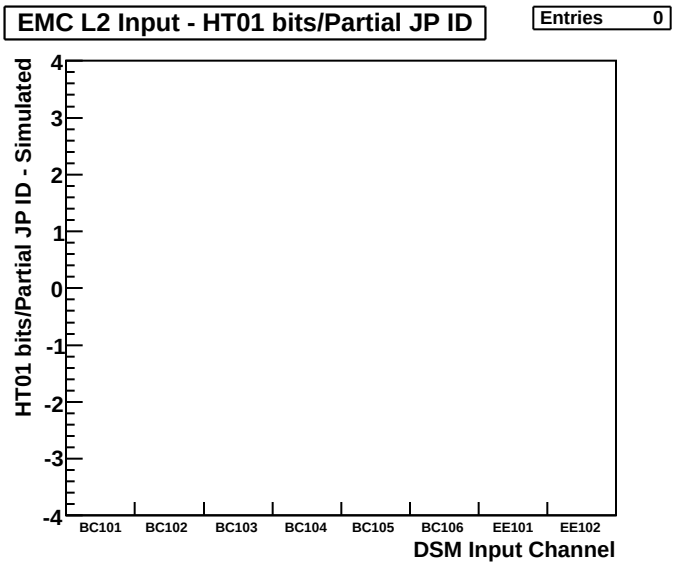

EMC L2 Input - JPZ/JPC bits
Entries 3865480
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
219782 214822 218997 220431 221612 219310 483185 483185
19491 19626 18983 19543 18732 18958
9609 9417 9337 9619 9131 9252
234303 239320 235868 233592 233710 235665

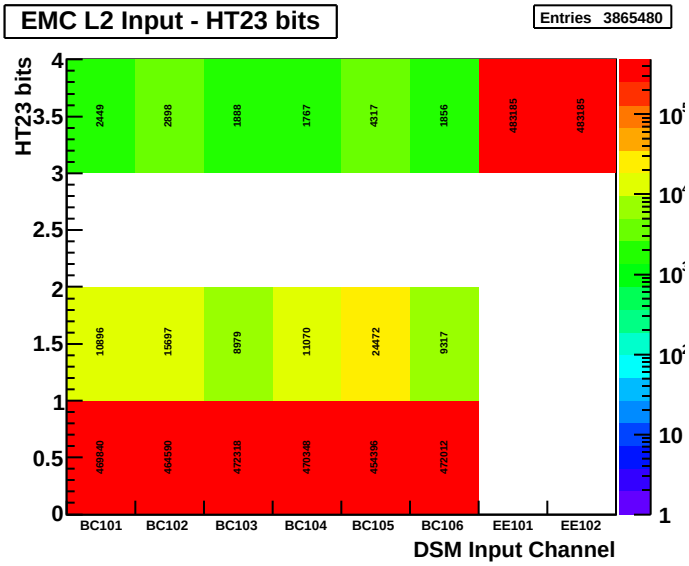

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

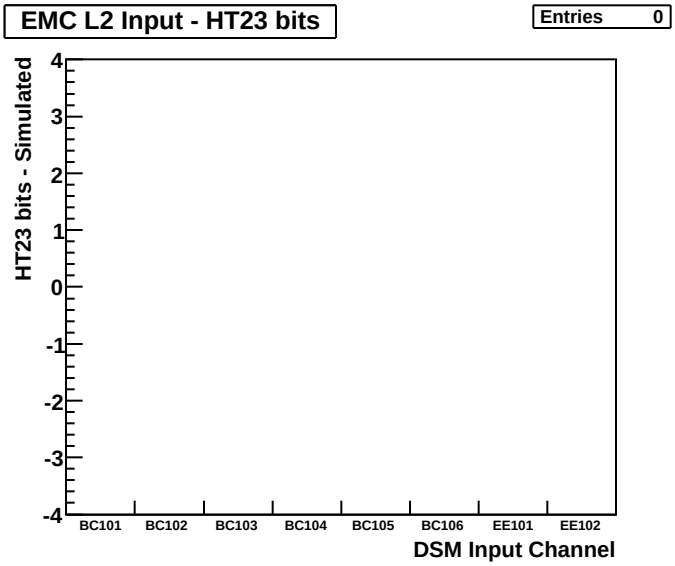

EMC L2 Input - Partial JP Sum
Entries 3865480
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

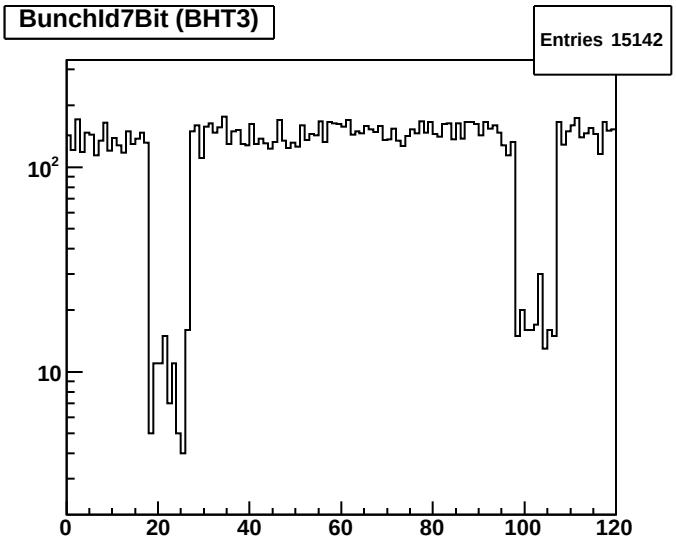

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

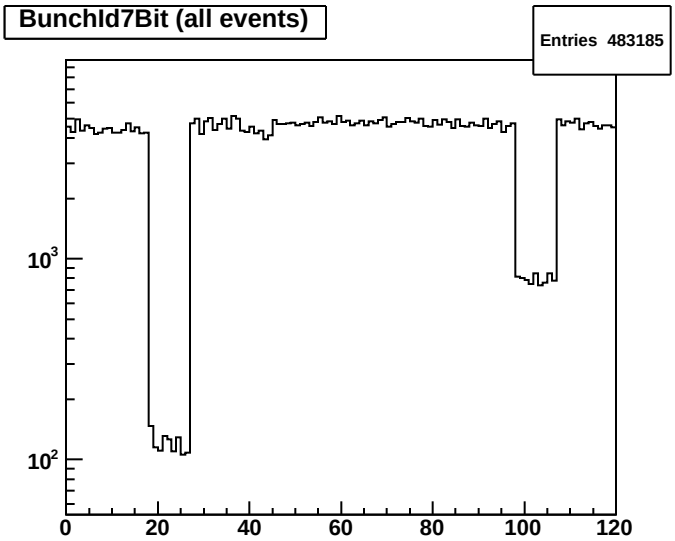

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3865480
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

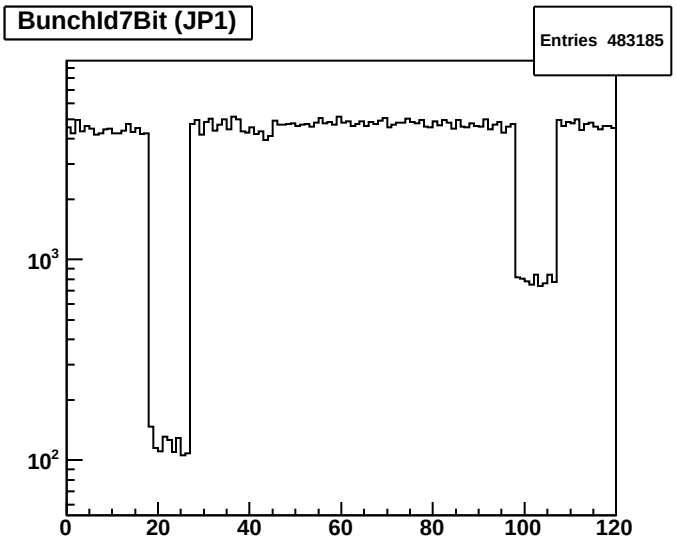

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

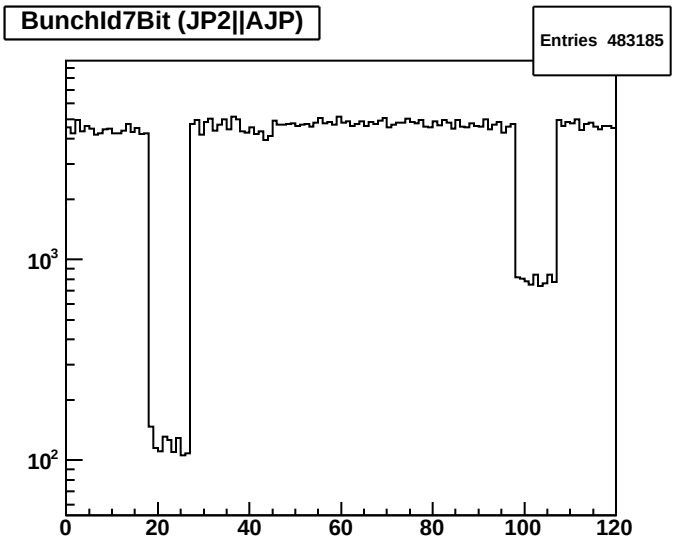

EMC L2 Input - HT23 bits
Entries 3865480
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

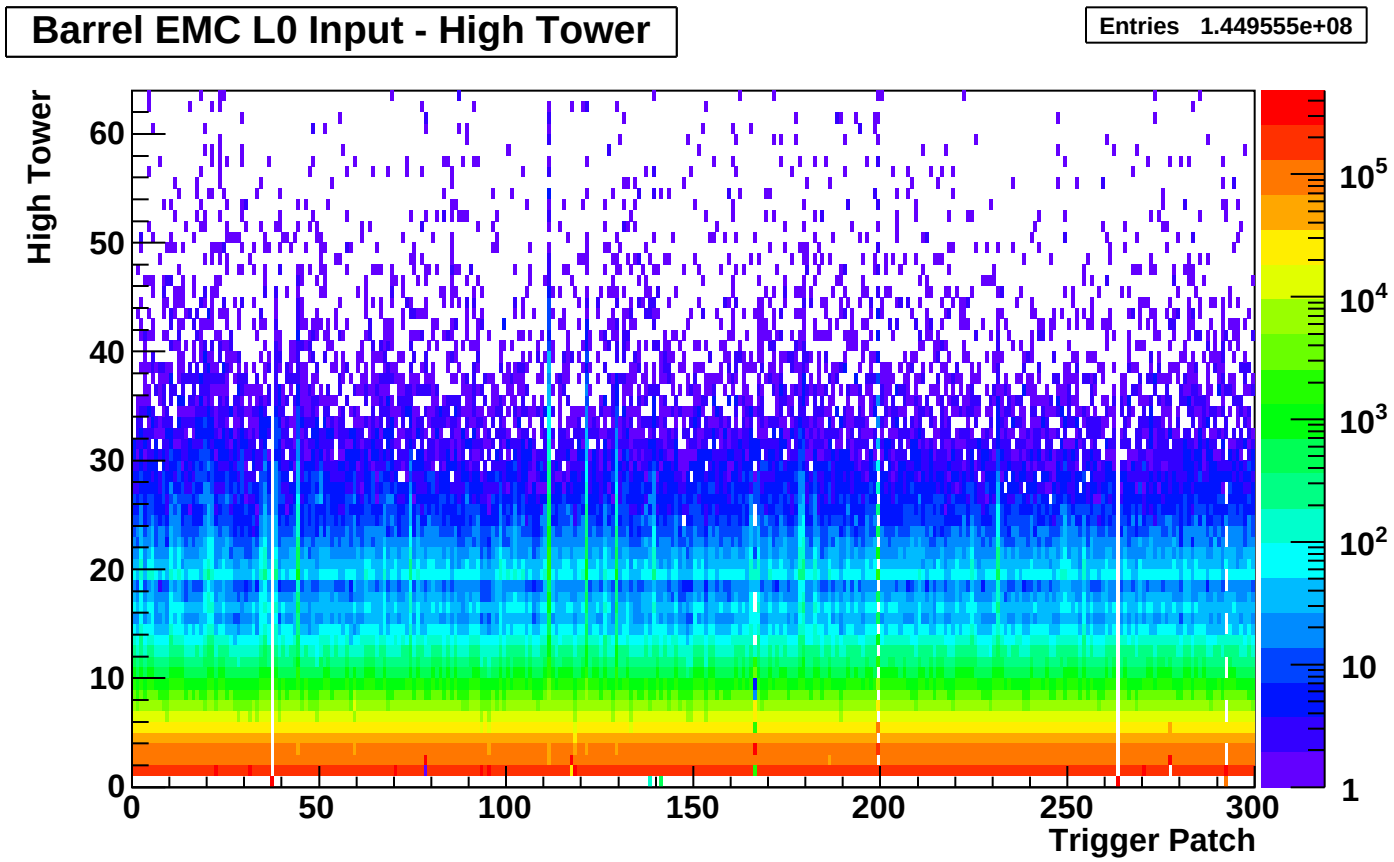

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

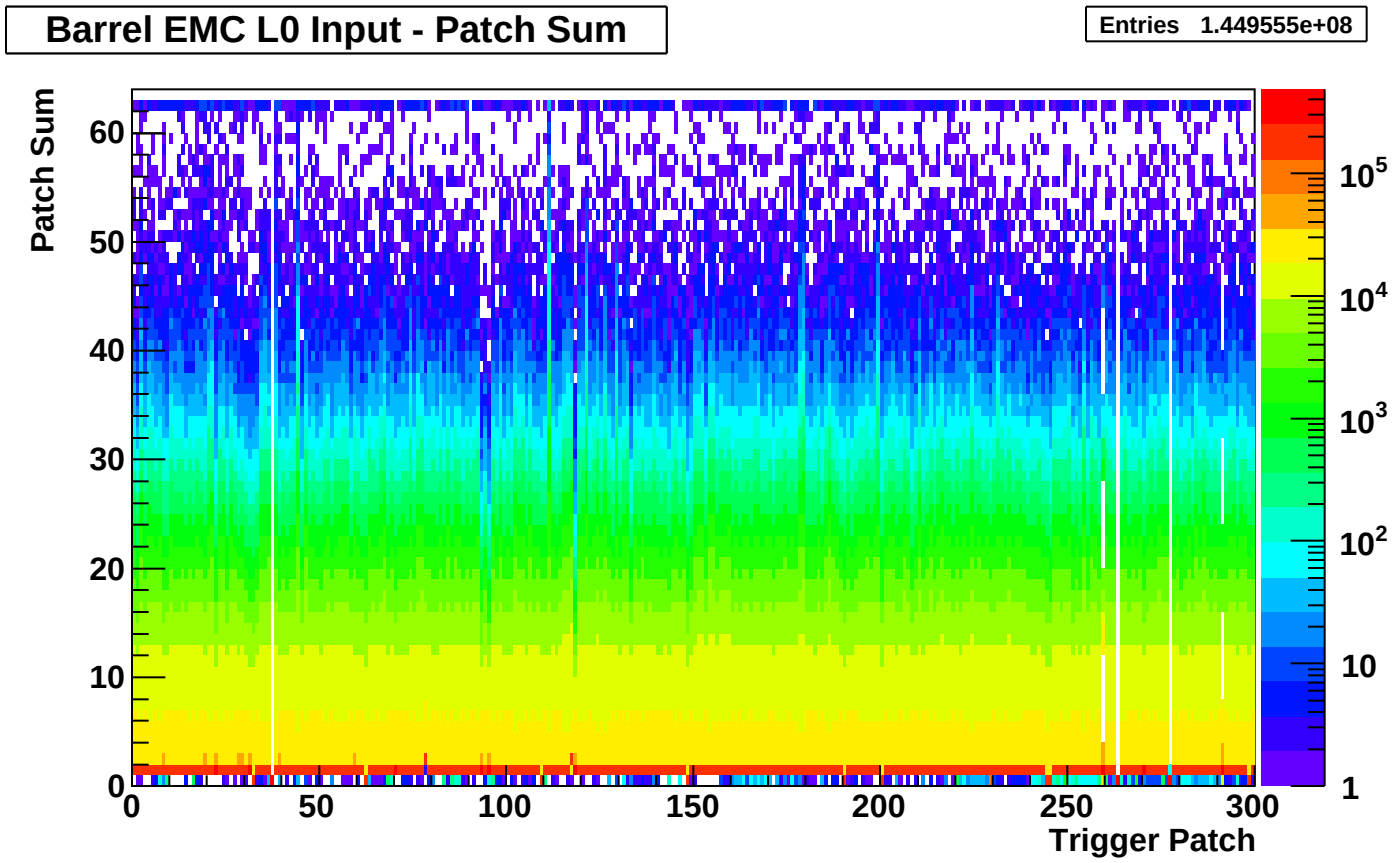

BunchId7Bit (BHT3)
Entries 15142
10^2
10
0
20
40
60
80
100
120

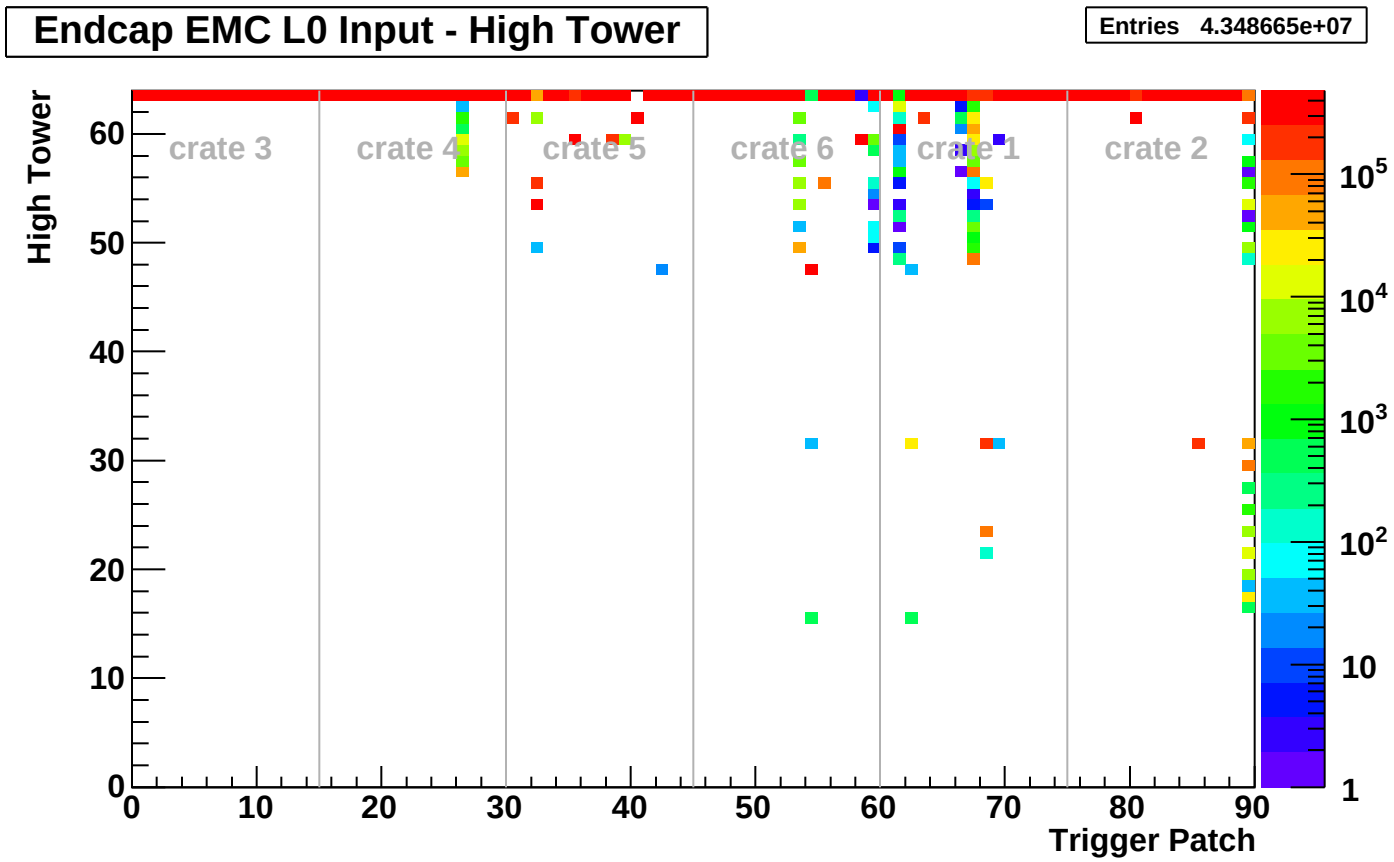

BunchId7Bit (all events)
Entries 483185
10^3
10^2
0
20
40
60
80
100
120

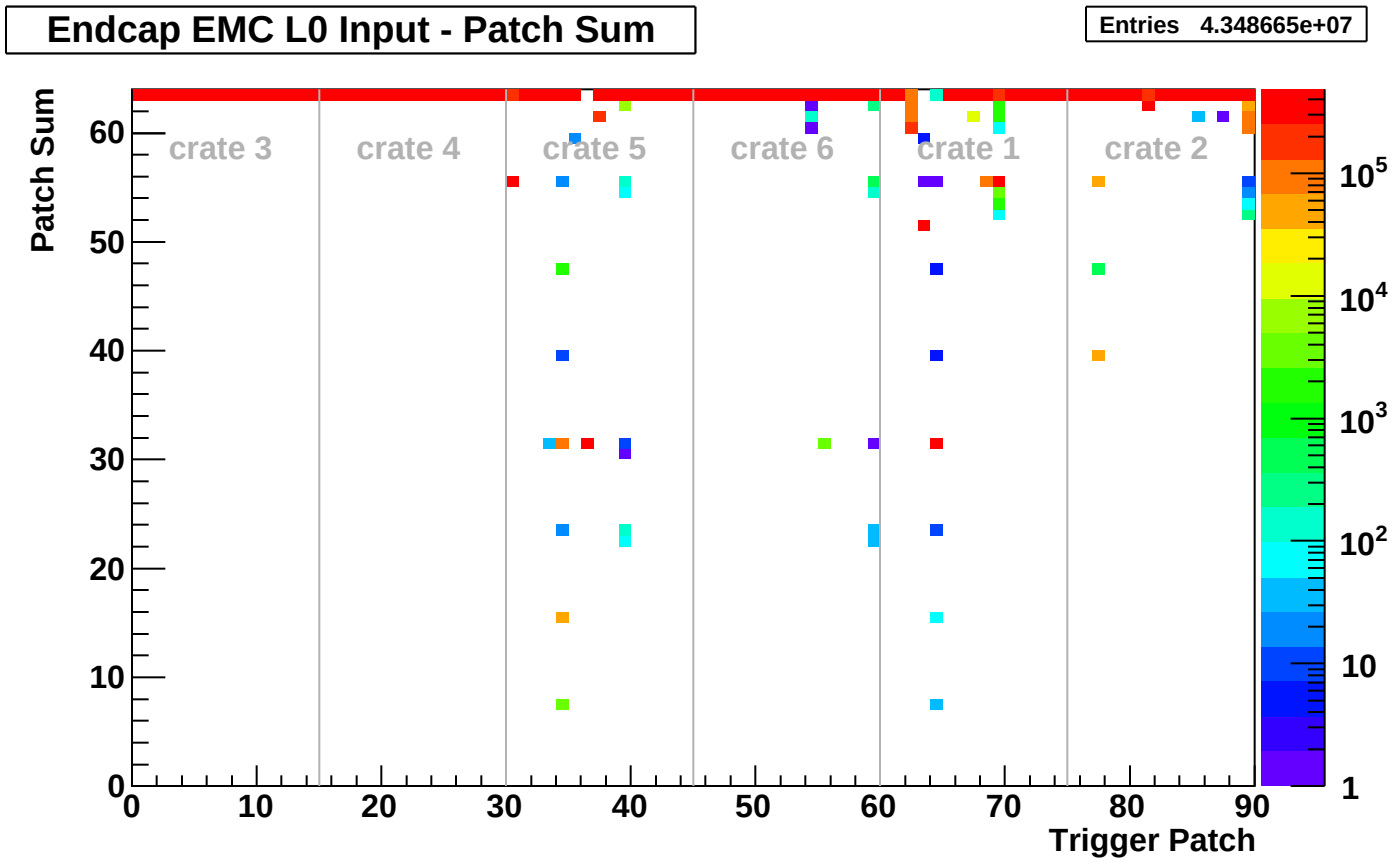

BunchId7Bit (JP1)
Entries 483185
10^3
10^2
0
20
40
60
80
100
120

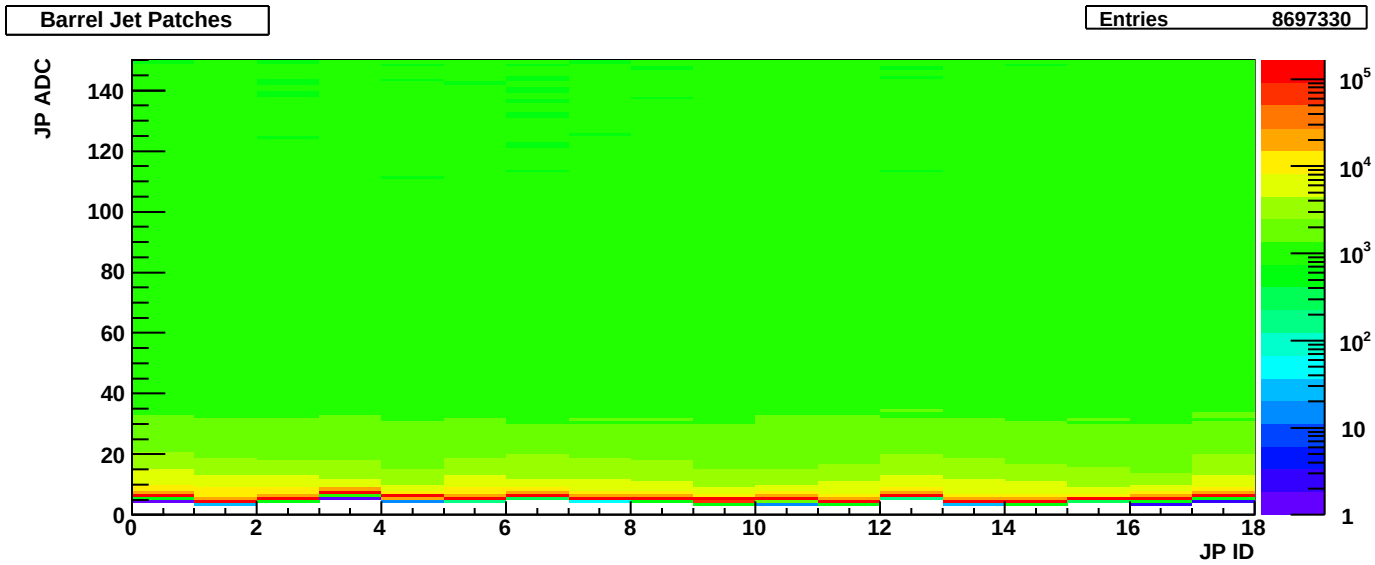

BunchId7Bit (JP2||AJP)
Entries 483185
10^3
10^2
0
20
40
60
80
100
120

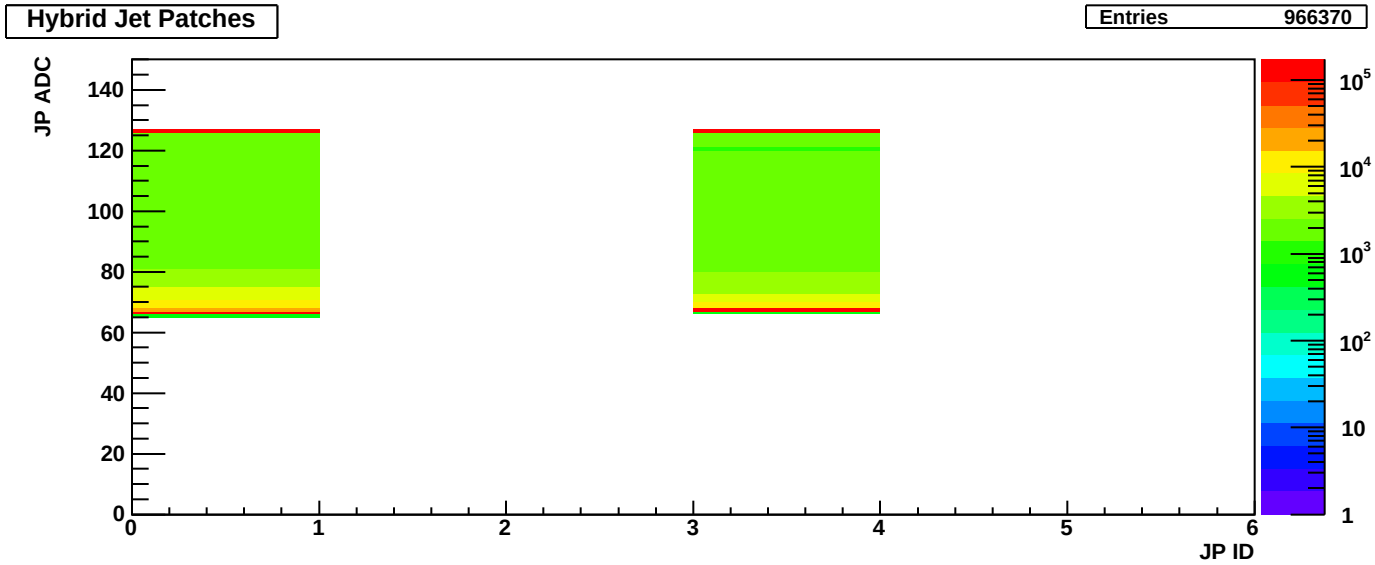

Barrel EMC L0 Input - High Tower
Entries 1.449555e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

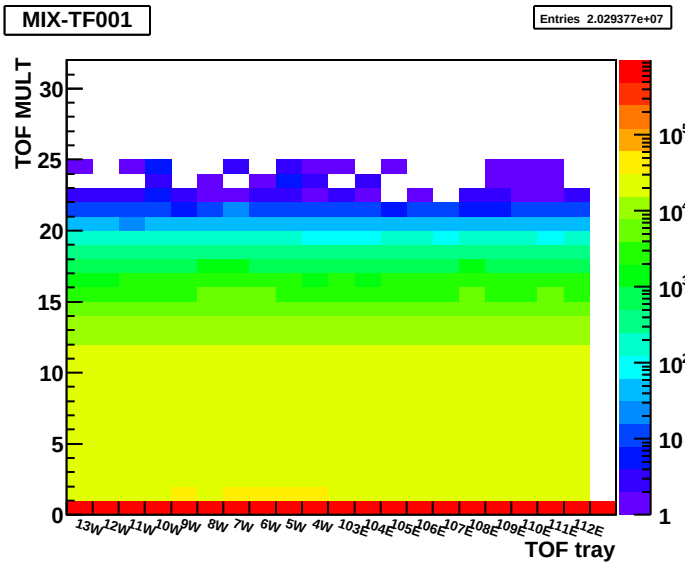

Barrel EMC L0 Input - Patch Sum
Entries 1.449555e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

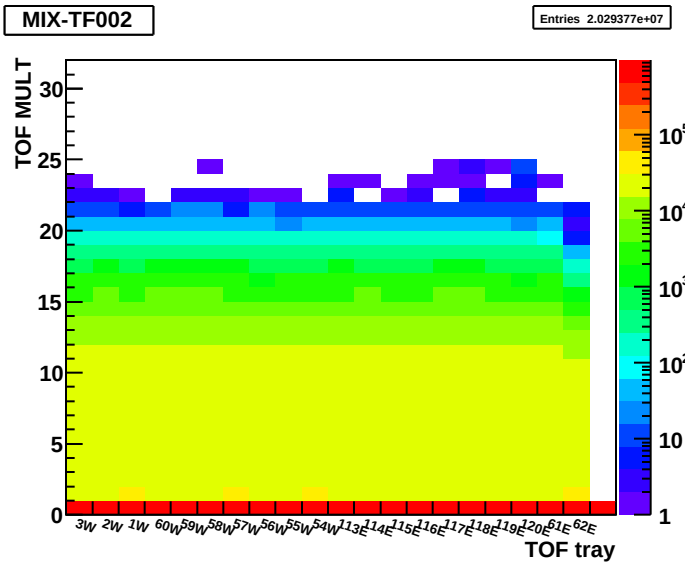

Endcap EMC L0 Input - High Tower
Entries 4.348665e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

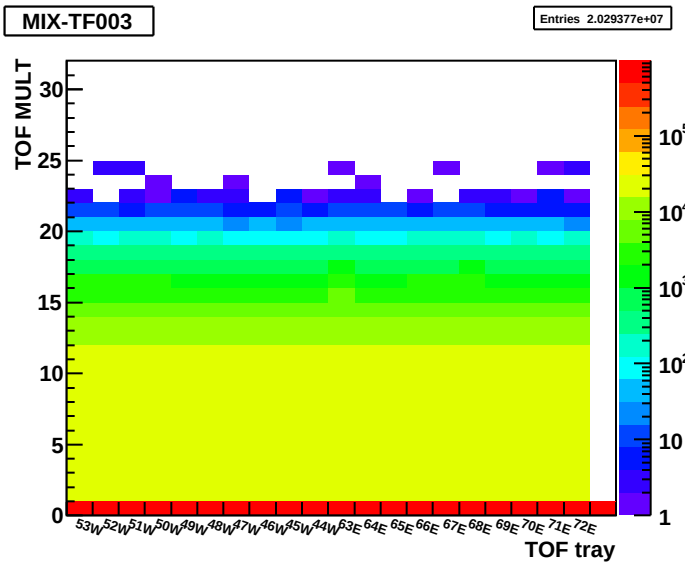

Endcap EMC L0 Input - Patch Sum
Entries 4.348665e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

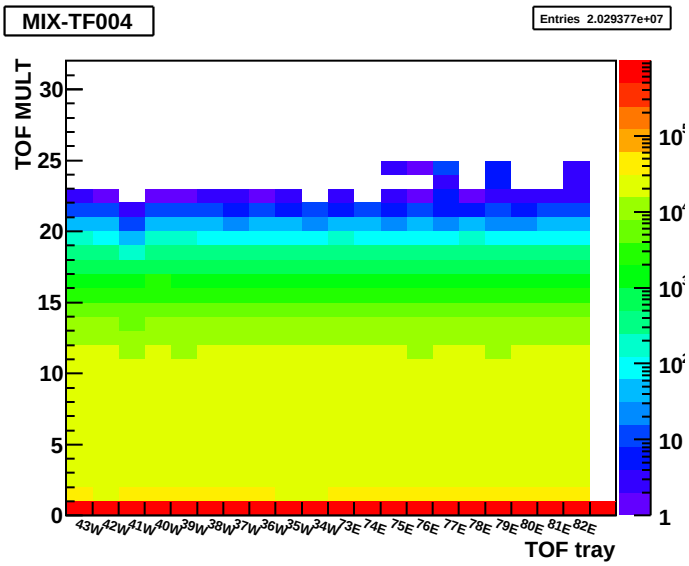

Barrel Jet Patches
Entries 8697330
JP ADC
JP ID

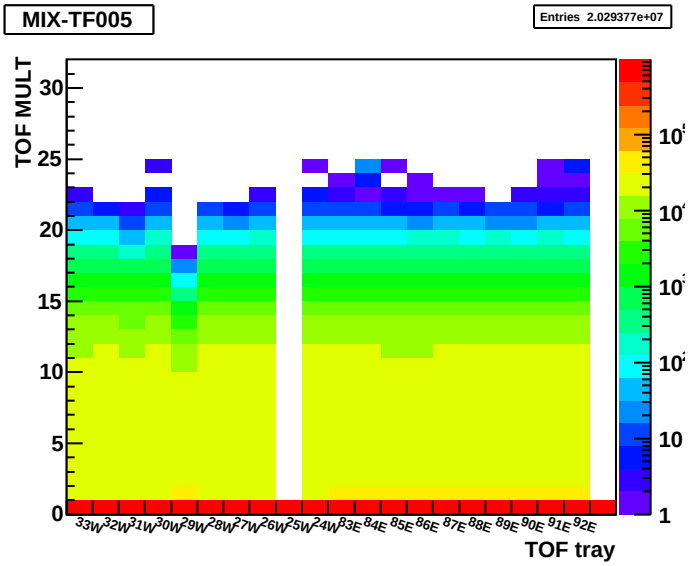

Hybrid Jet Patches
Entries 966370
JP ADC
JP ID

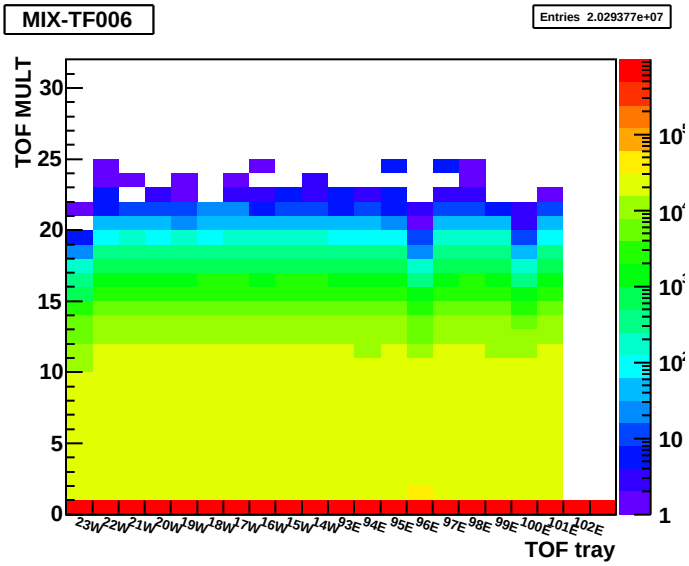

MIX-TF001
Entries 2.029377e+07
TOF MULT
TOF tray

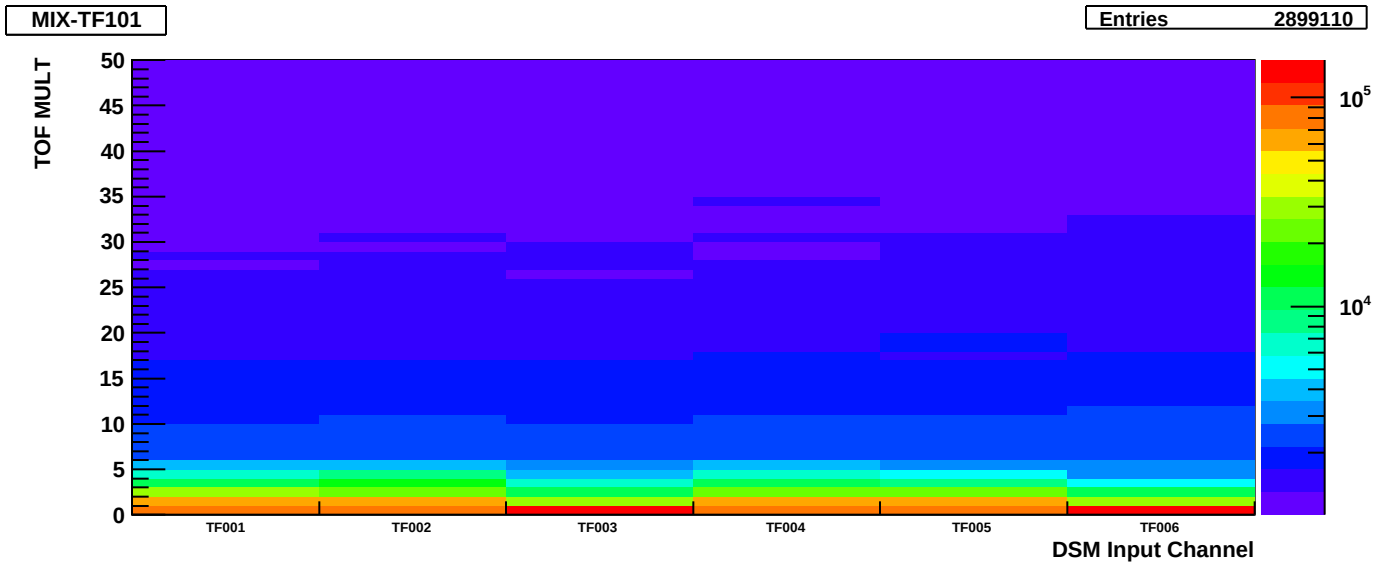

MIX-TF002
Entries 2.029377e+07
TOF MULT
TOF tray

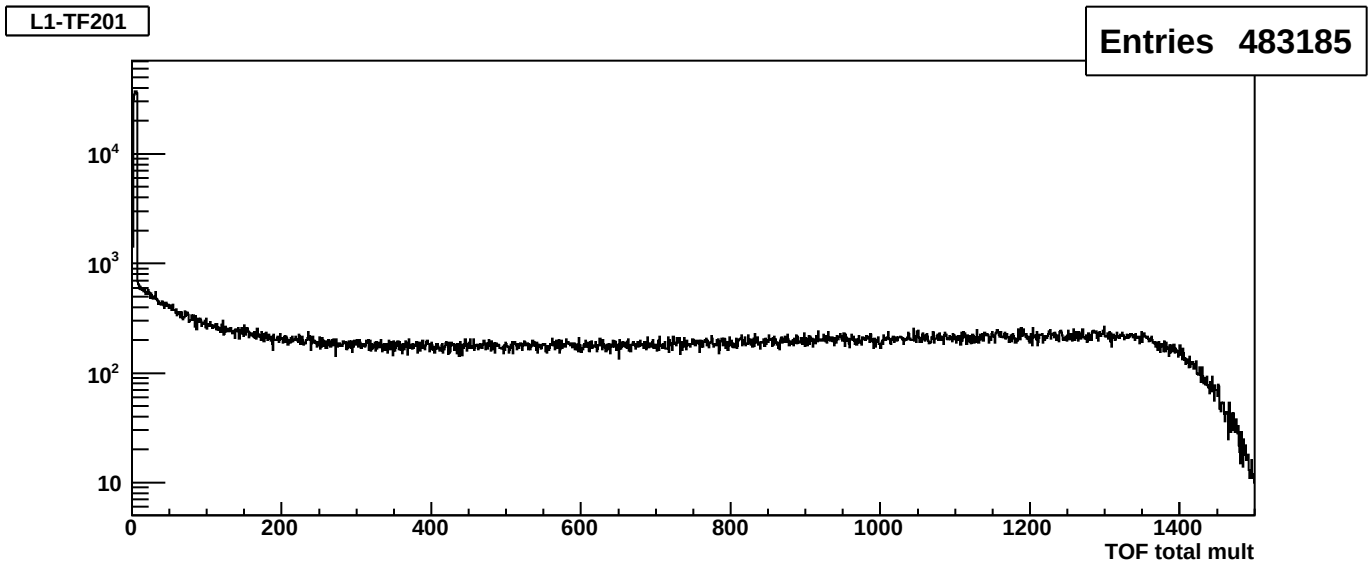

MIX-TF003
Entries 2.029377e+07
TOF MULT
TOF tray

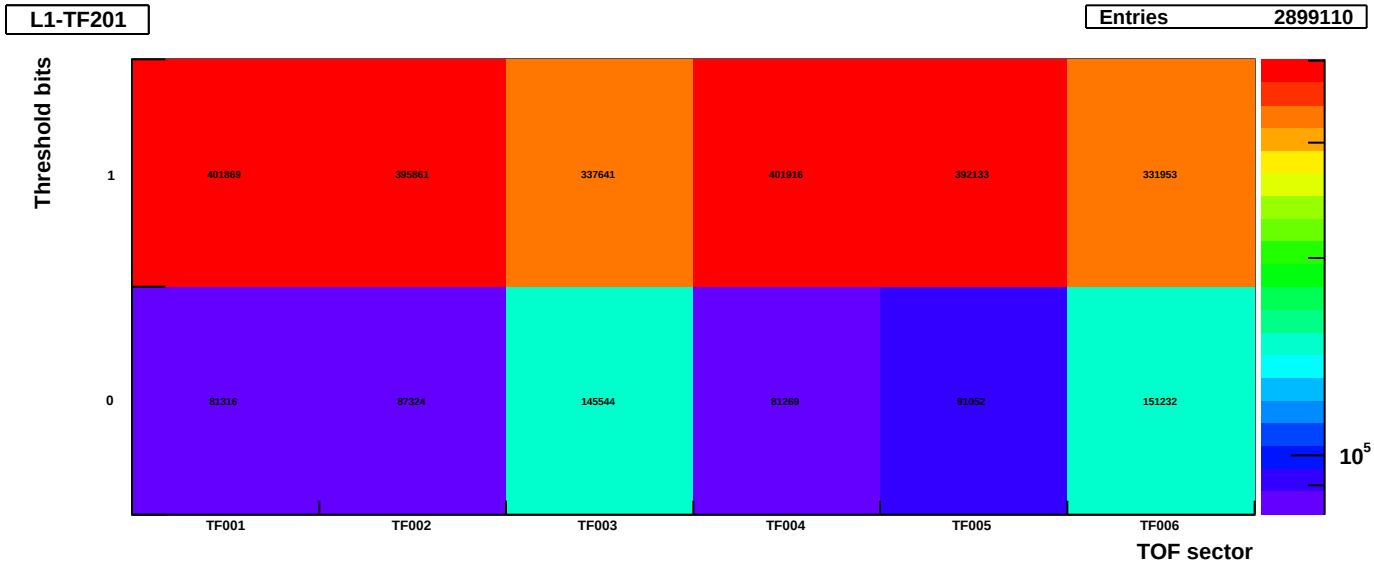

MIX-TF004
Entries 2.029377e+07
TOF MULT
TOF tray

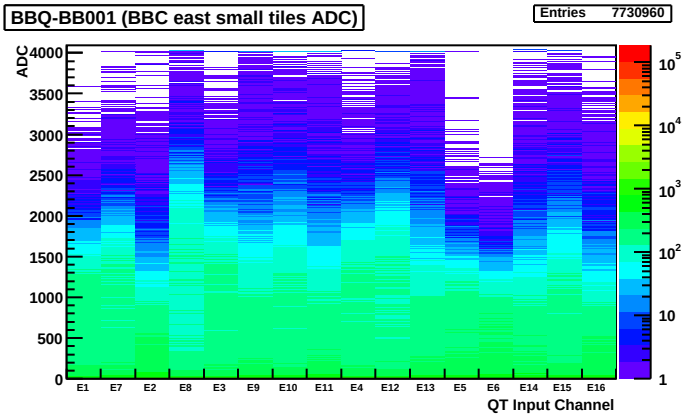

MIX-TF005
Entries 2.029377e+07
TOF MULT
TOF tray

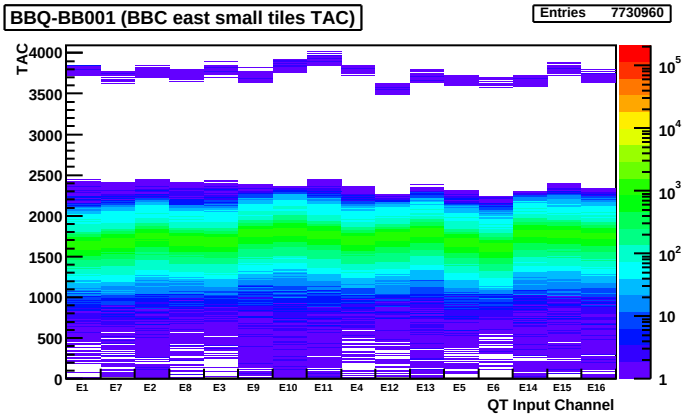

MIX-TF006
Entries 2.029377e+07
TOF MULT
TOF tray

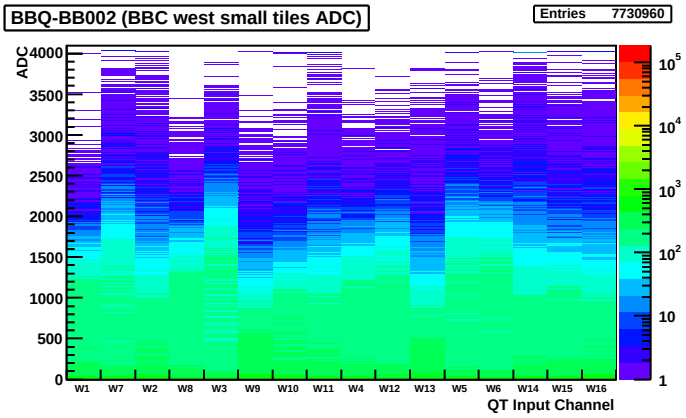

MIX-TF101
Entries 2899110
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4

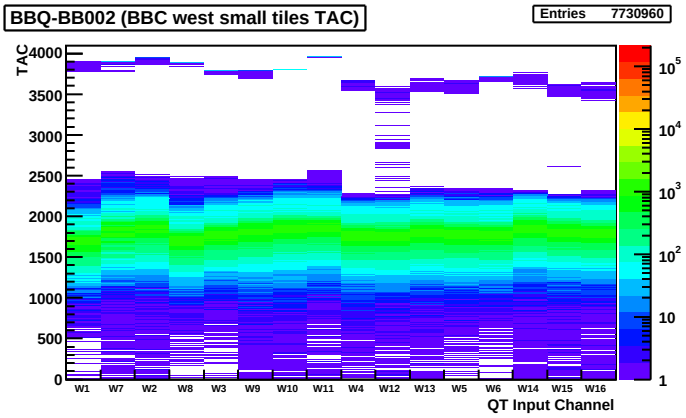

L1-TF201
Entries 483185
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

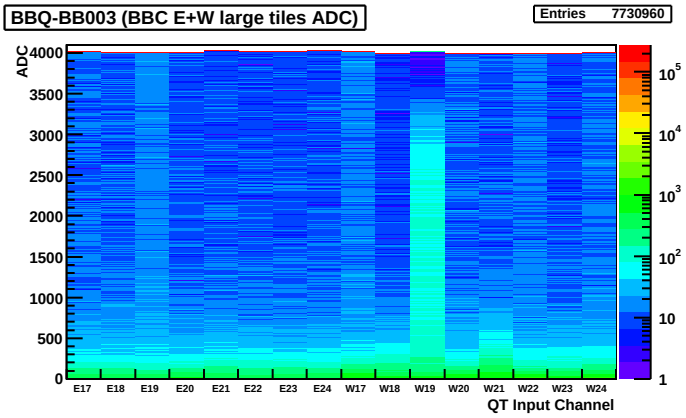

L1-TF201
Entries 2899110
Threshold bits
1
0
401869
395861
337641
401916
392133
331953
81316
87324
145544
81269
91052
151232
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

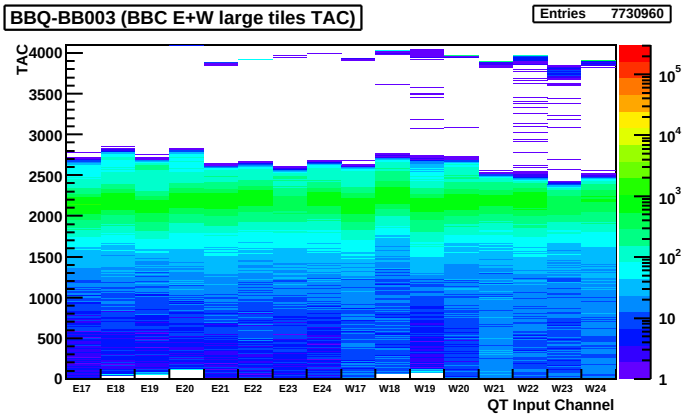

BBQ-BB001 (BBC east small tiles ADC)
Entries 7730960
ADC
QT Input Channel

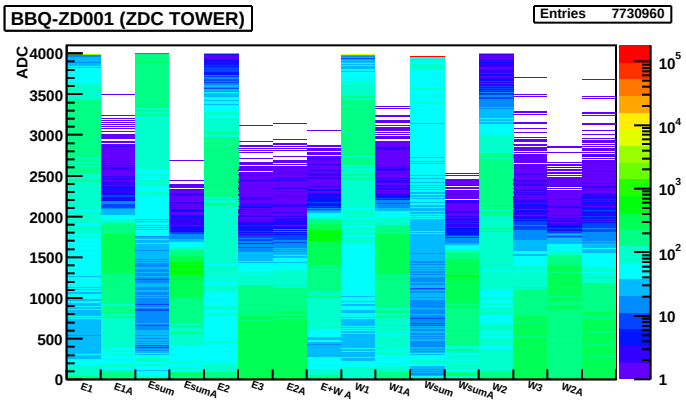

BBQ-BB001 (BBC east small tiles TAC)
Entries 7730960
TAC
QT Input Channel

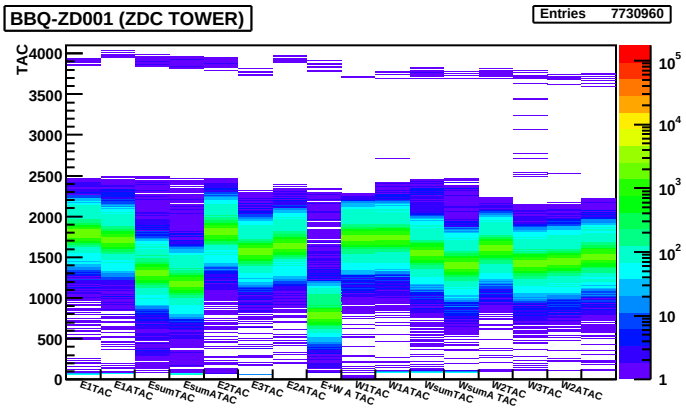

BBQ-BB002 (BBC west small tiles ADC)
Entries 7730960
ADC
QT Input Channel

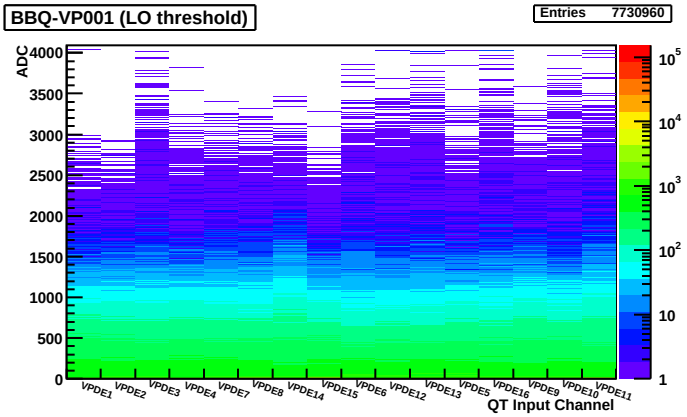

BBQ-BB002 (BBC west small tiles TAC)
Entries 7730960
TAC
QT Input Channel

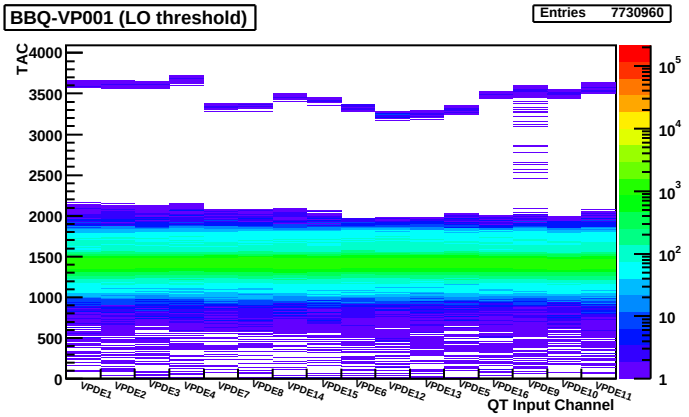

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7730960
ADC
QT Input Channel

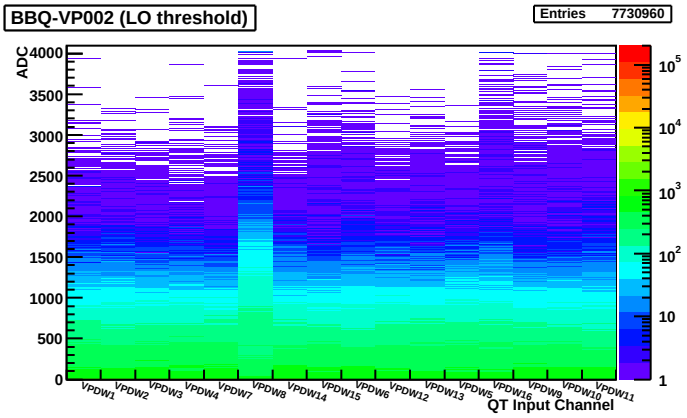

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7730960
TAC
QT Input Channel

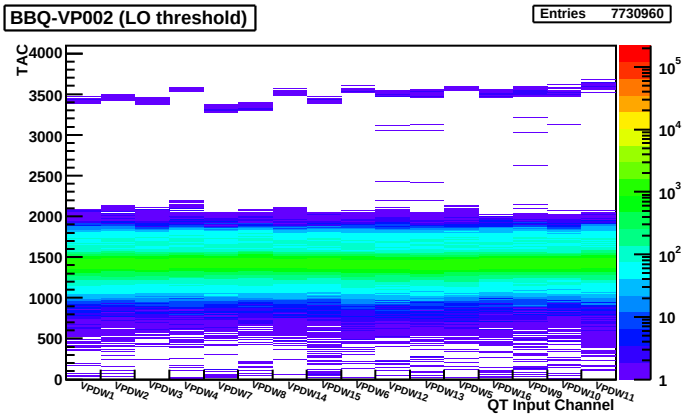

BBQ-ZD001 (ZDC TOWER)
Entries 7730960
ADC

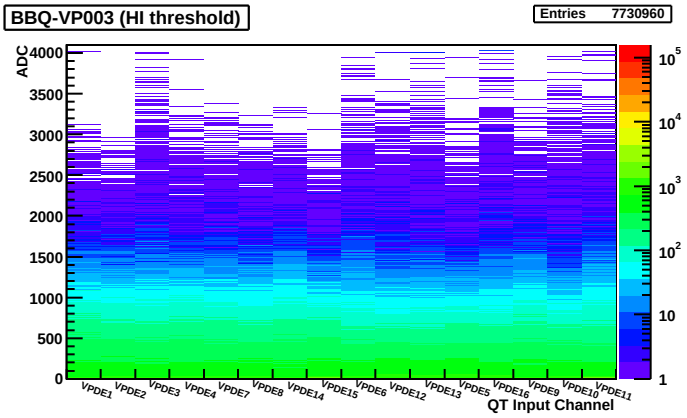

BBQ-ZD001 (ZDC TOWER)
Entries 7730960
TAC

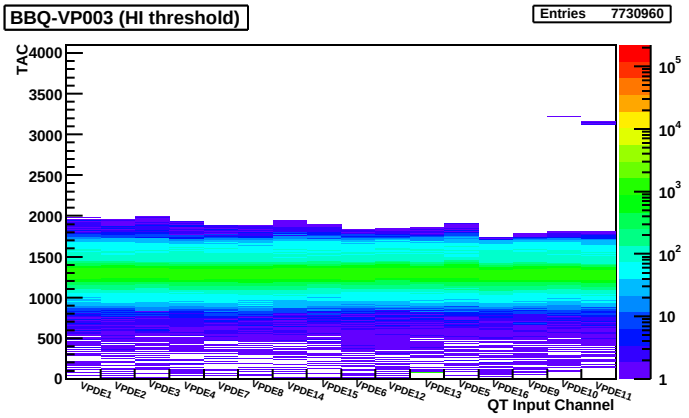

BBQ-VP001 (LO threshold)
Entries 7730960
ADC
QT Input Channel

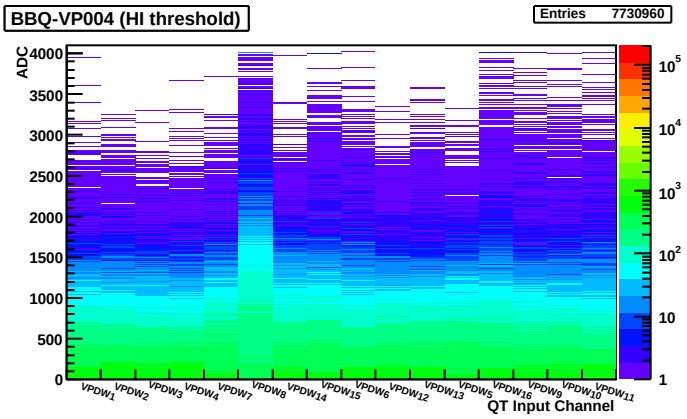

BBQ-VP001 (LO threshold)
Entries 7730960
TAC
QT Input Channel

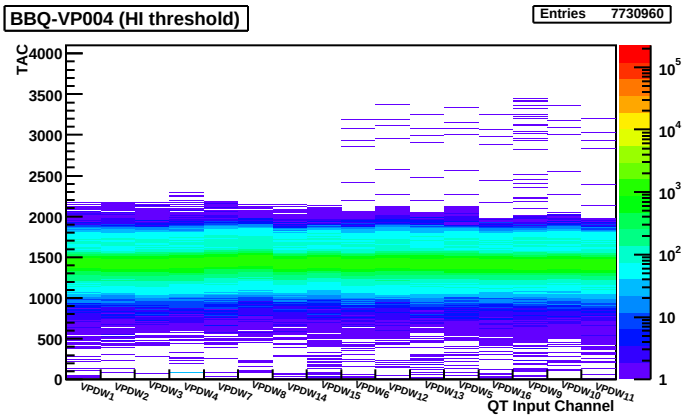

BBQ-VP002 (LO threshold)
Entries 7730960
ADC
QT Input Channel

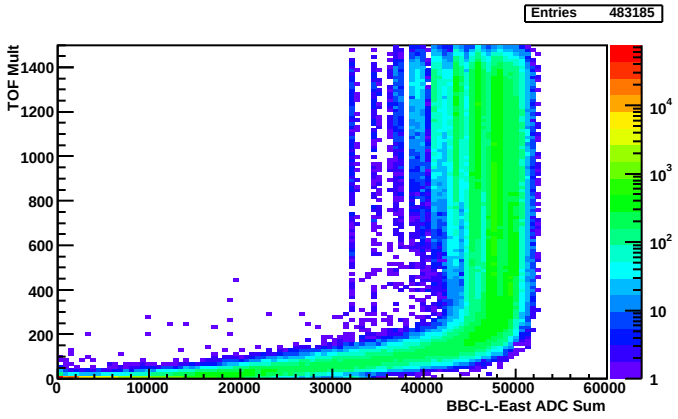

BBQ-VP002 (LO threshold)
Entries 7730960
TAC
QT Input Channel

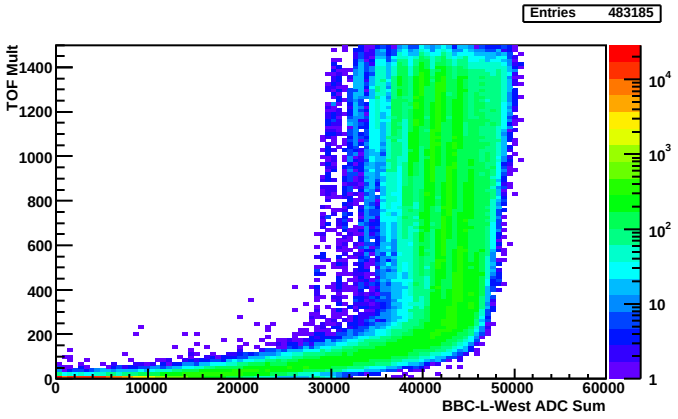

BBQ-VP003 (HI threshold)
Entries 7730960
ADC
QT Input Channel

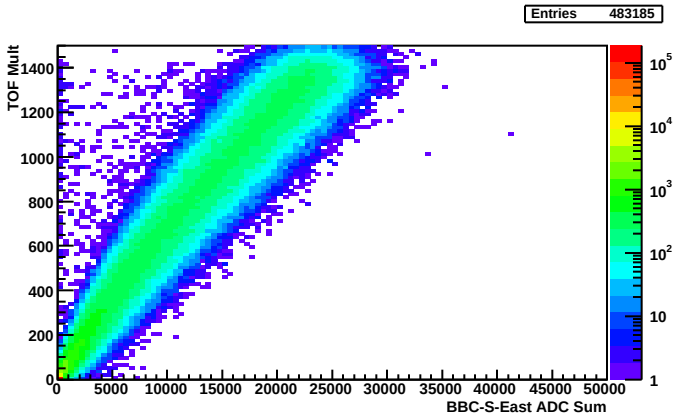

BBQ-VP003 (HI threshold)
Entries 7730960
TAC
QT Input Channel

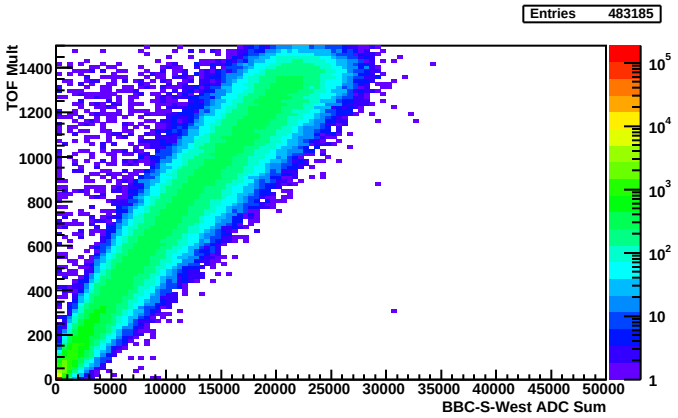

BBQ-VP004 (HI threshold)
Entries 7730960
ADC
QT Input Channel

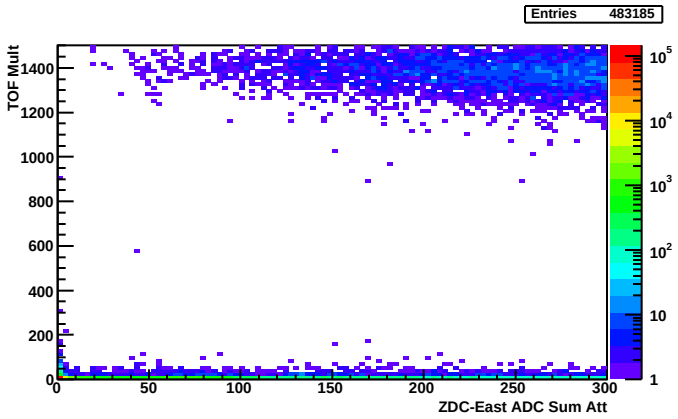

BBQ-VP004 (HI threshold)
Entries 7730960
TAC
QT Input Channel

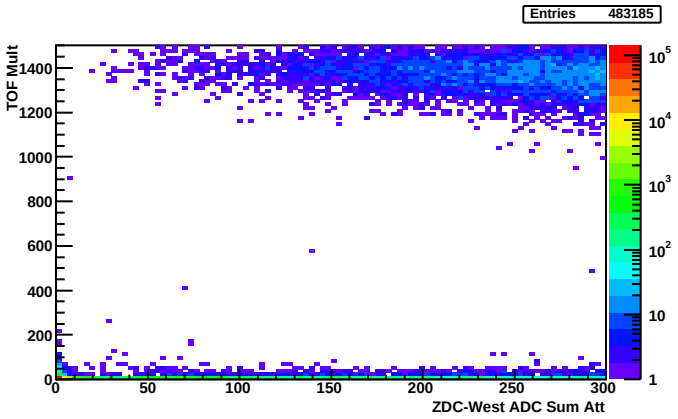

Entries 483185
TOF Mult
BBC-L-East ADC Sum

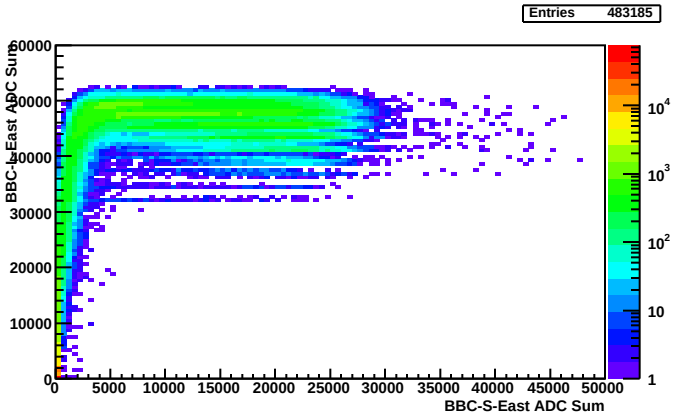

Entries 483185
TOF Mult
BBC-L-West ADC Sum

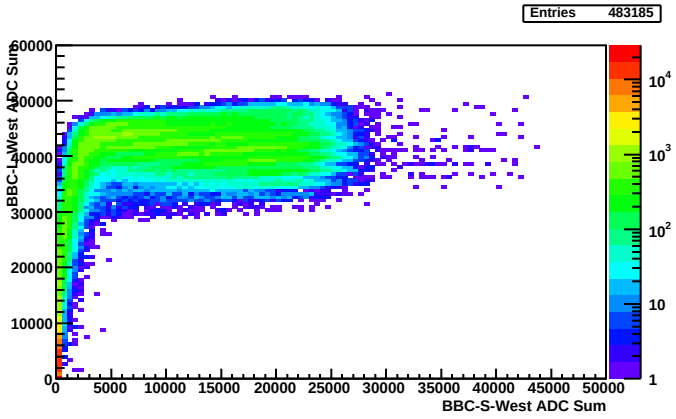

Entries 483185
TOF Mult
BBC-S-East ADC Sum

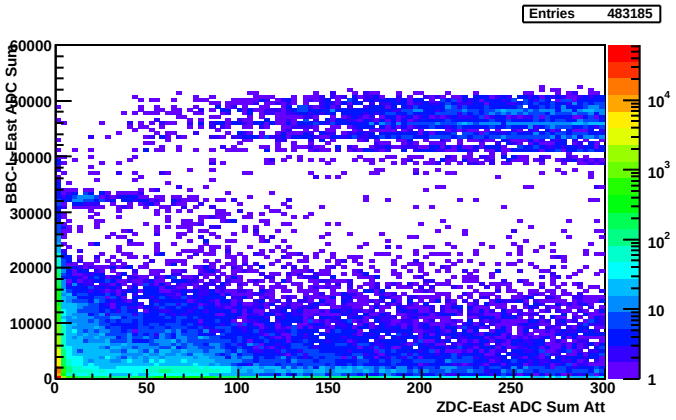

Entries 483185
TOF Mult
BBC-S-West ADC Sum

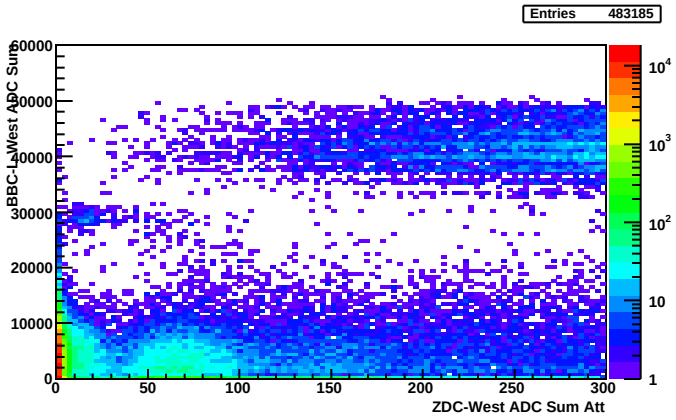

Entries 483185
TOF Mult
ZDC-East ADC Sum Att

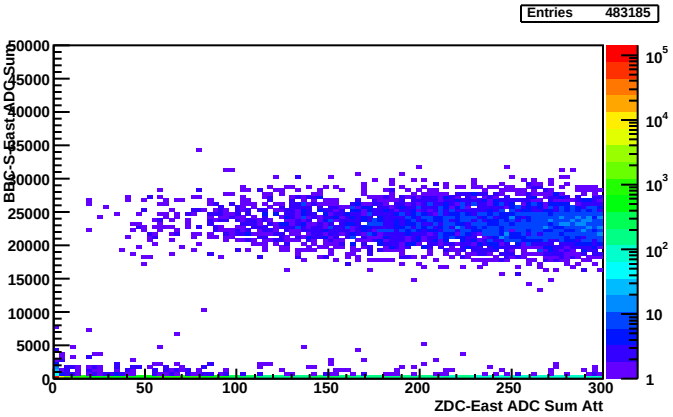

Entries 483185
TOF Mult
ZDC-West ADC Sum Att

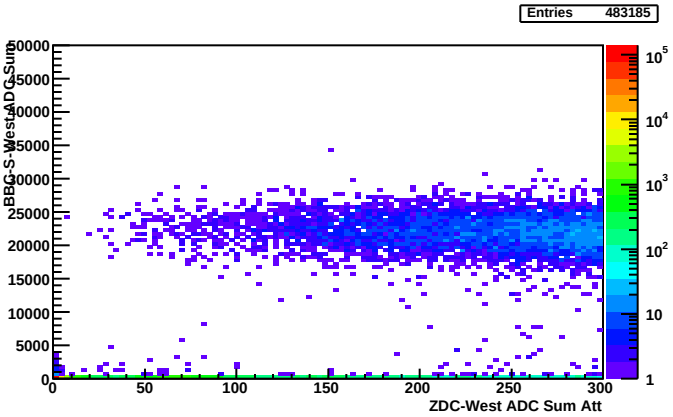

Entries 483185
BBC-L-East ADC Sum
BBC-S-East ADC Sum

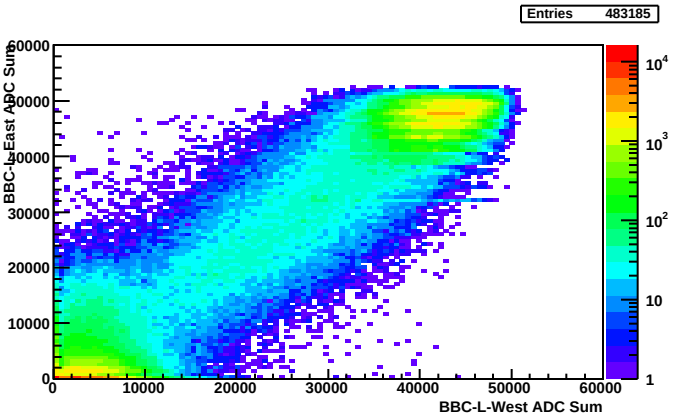

Entries 483185
BBC-L-West ADC Sum
BBC-S-West ADC Sum

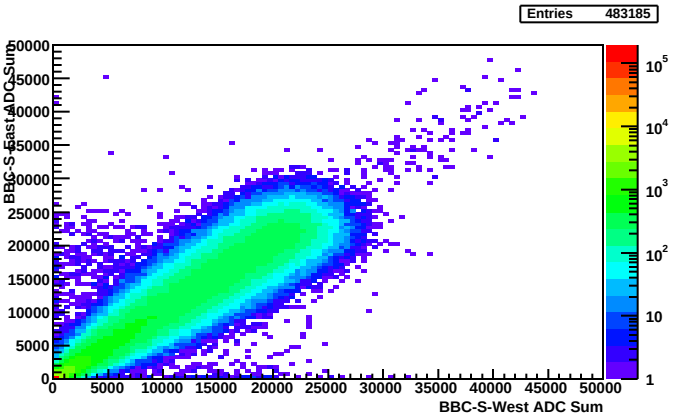

Entries 483185
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

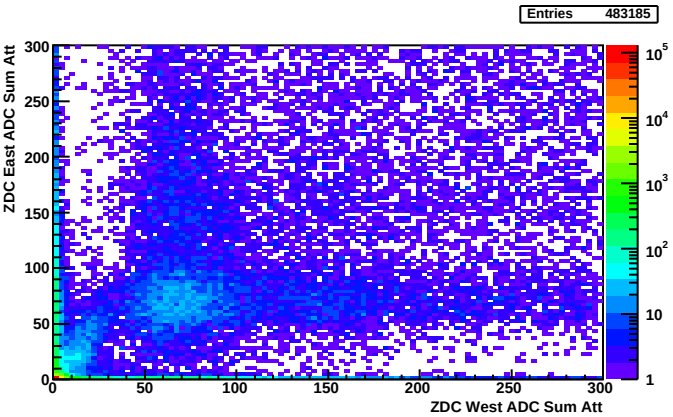

Entries 483185
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

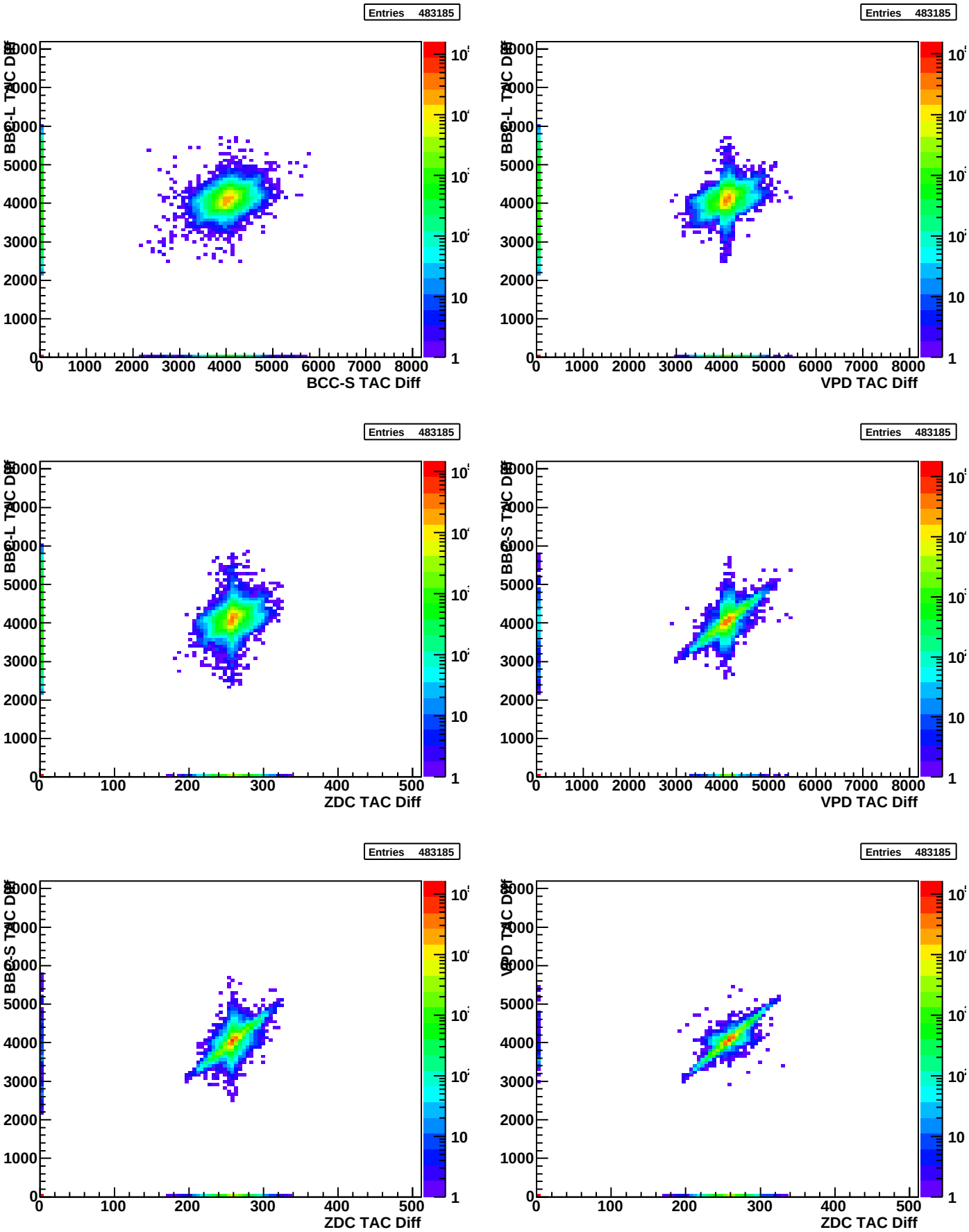

Entries 483185
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

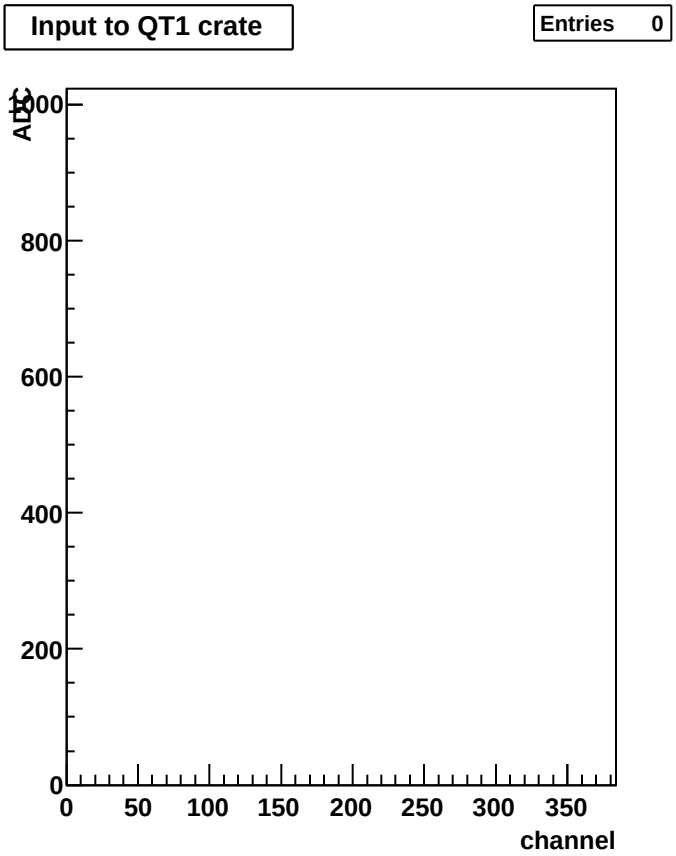

Entries 483185
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

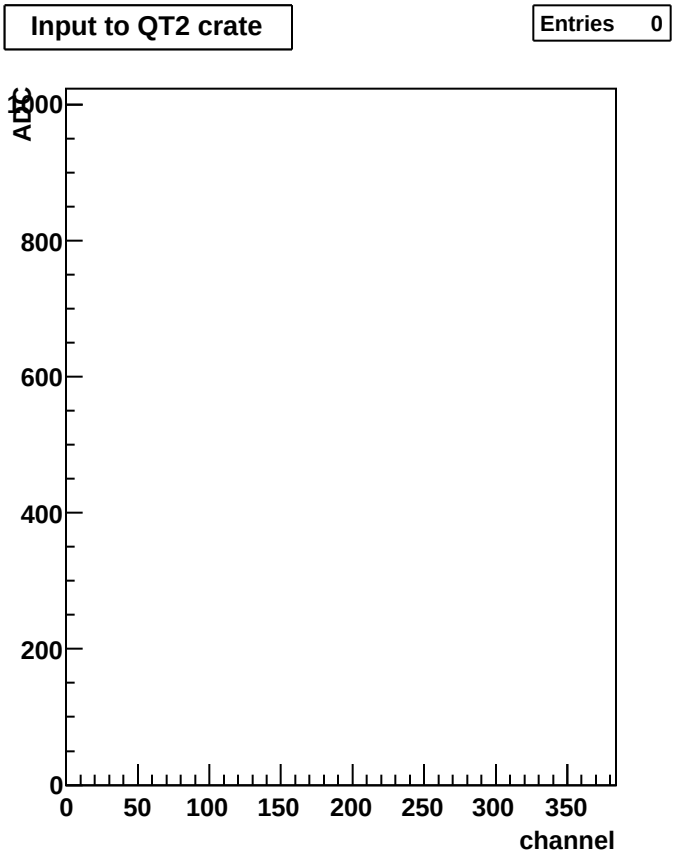

Entries 483185
BBC-L-East ADC Sum
BBC-L-West ADC Sum

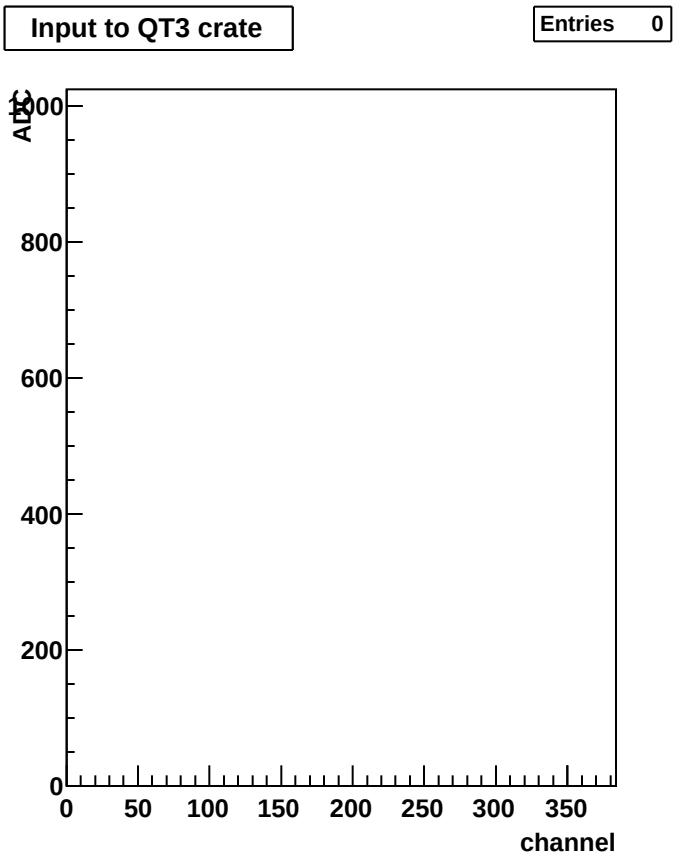

Entries 483185
BBC-S-East ADC Sum
BBC-S-West ADC Sum

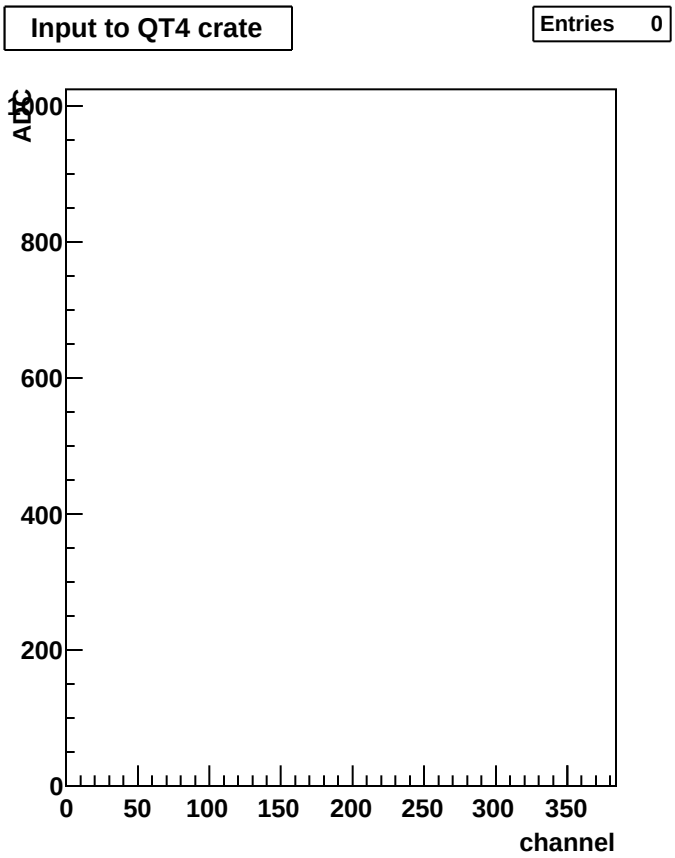

Entries 483185
ZDC East ADC Sum Att
ZDC West ADC Sum Att

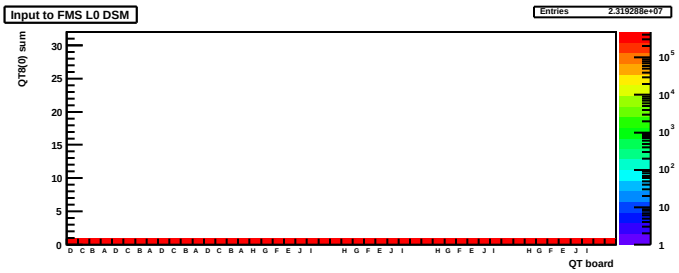

Entries 483185
BBC-L TAC Diff
BCC-S TAC Diff
Entries 483185
BBC-L TAC Diff
VPD TAC Diff
Entries 483185
BBC-L TAC Diff
ZDC TAC Diff
Entries 483185
BBC-S TAC Diff
VPD TAC Diff
Entries 483185
BBC-S TAC Diff
ZDC TAC Diff
Entries 483185
VPD TAC Diff
ZDC TAC Diff

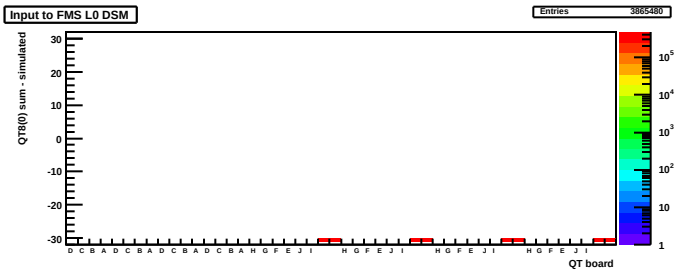

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

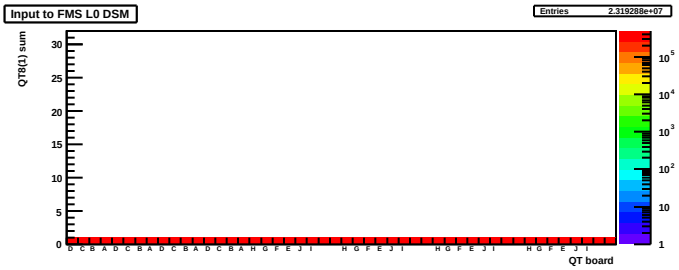

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

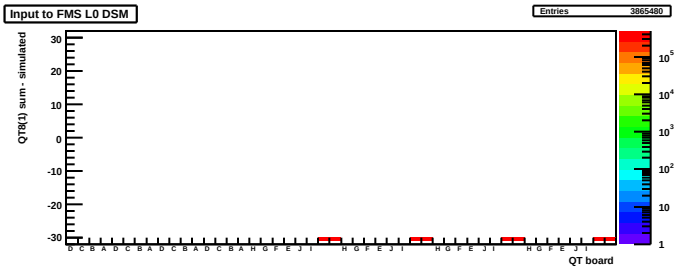

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

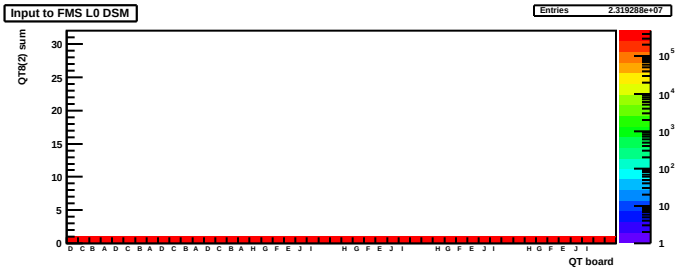

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

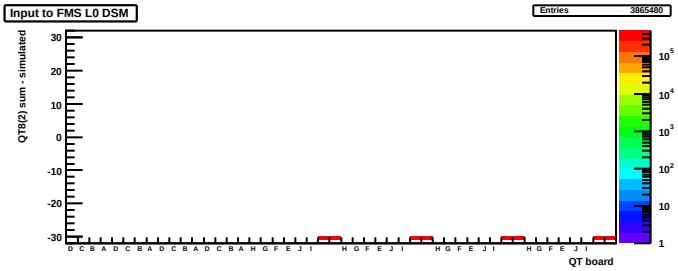

Input to FMS L0 DSM
Entries 2.319288e+07
QT8(0) sum
QT board

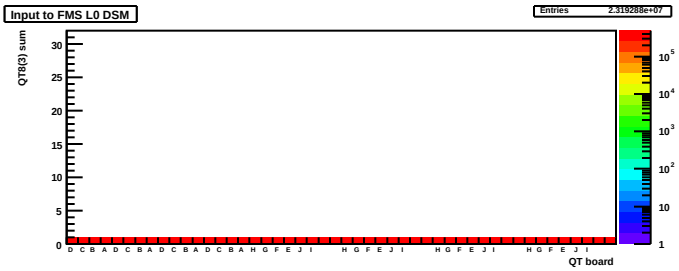

Input to FMS L0 DSM
Entries 3865480
QT8(0) sum - simulated
QT board

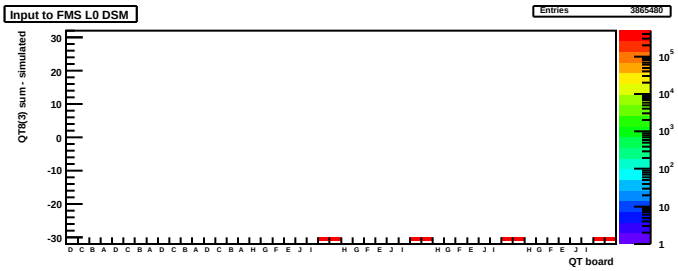

Input to FMS L0 DSM
Entries 2.319288e+07
QT8(1) sum
QT board

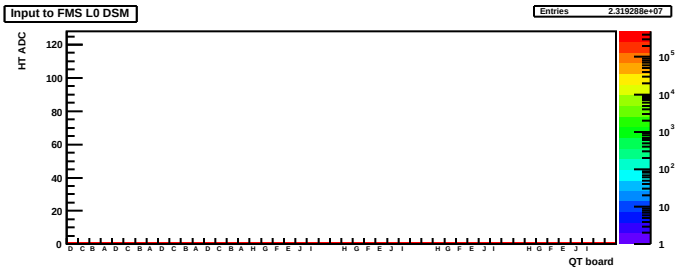

Input to FMS L0 DSM
Entries 3865480
QT8(1) sum - simulated
QT board

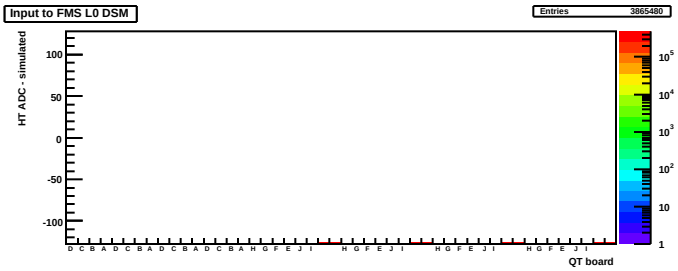

Input to FMS L0 DSM
Entries 2.319288e+07
QT8(2) sum
QT board

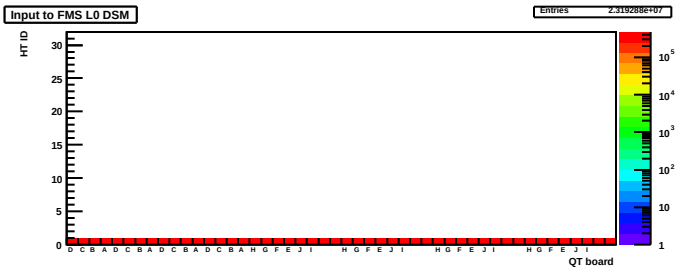

Input to FMS L0 DSM
Entries 3865480
QT8(2) sum - simulated
QT board

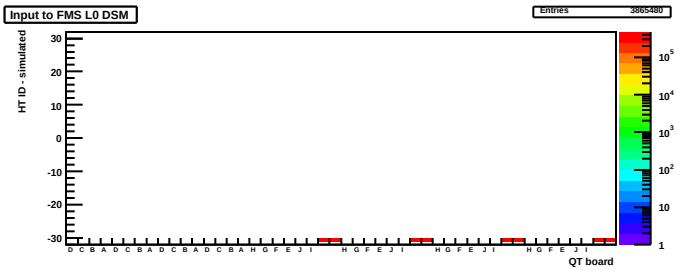

Input to FMS L0 DSM
Entries 2.319288e+07
QT8(3) sum
QT board

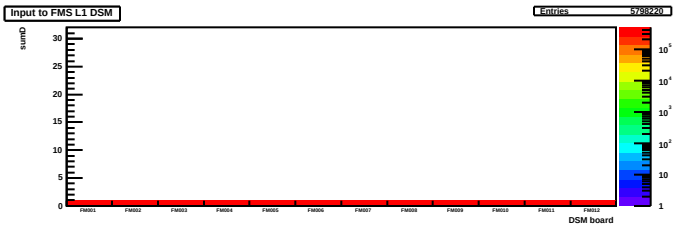

Input to FMS L0 DSM
Entries 3865480
QT8(3) sum - simulated
QT board

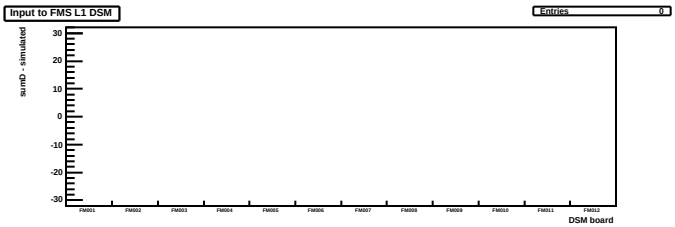

Input to FMS L0 DSM
Entries 2.319288e+07
HT ADC
QT board

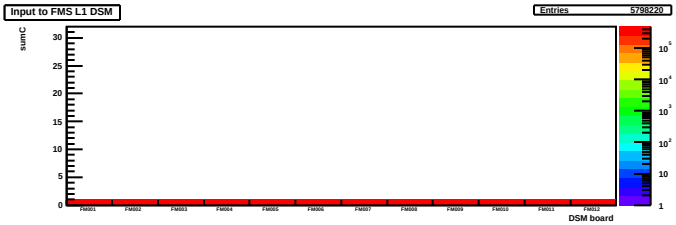

Input to FMS L0 DSM
Entries 3865480
HT ADC - simulated
QT board

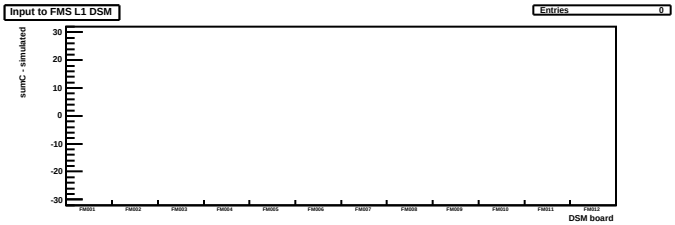

Input to FMS L0 DSM
Entries 2.319288e+07
HT ID
QT board

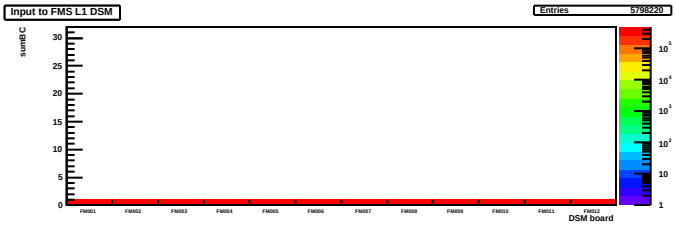

Input to FMS L0 DSM
Entries 3865480
HT ID - simulated
QT board

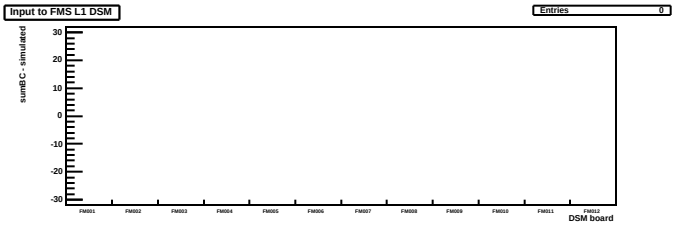

Input to FMS L1 DSM
Entries 5798220
sumD
DSM board

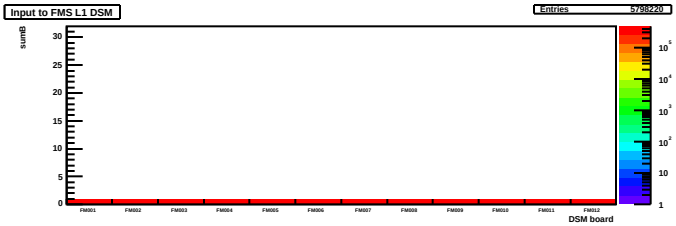

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

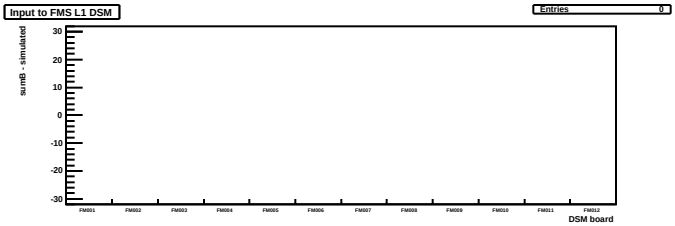

Input to FMS L1 DSM
Entries 5798220
sumC
DSM board

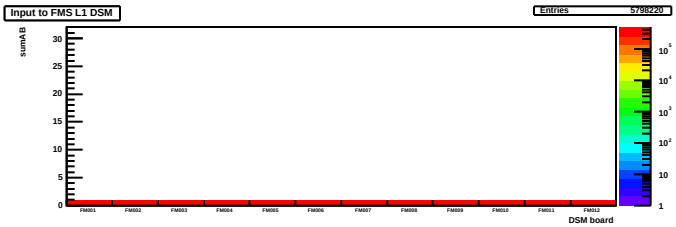

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

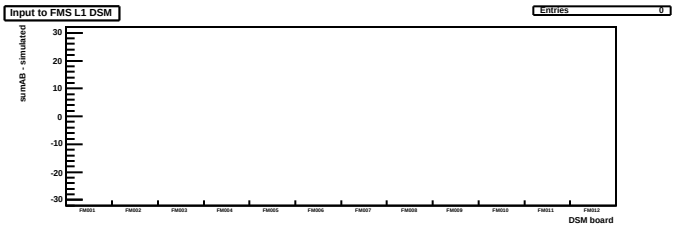

Input to FMS L1 DSM
Entries 5798220
sumBC
DSM board

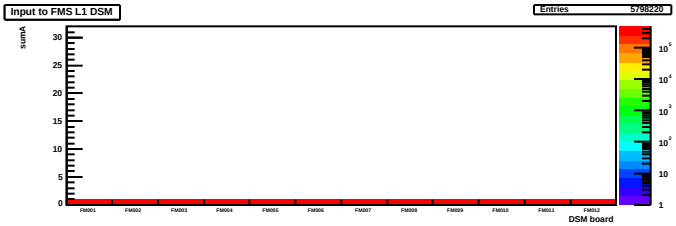

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

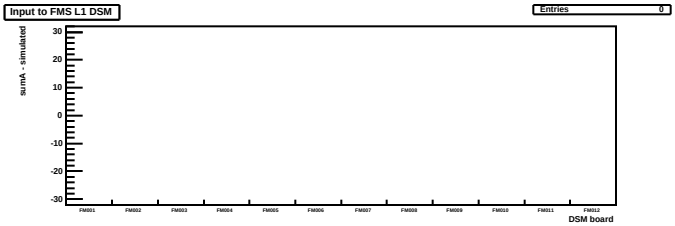

Input to FMS L1 DSM
Entries 5798220
sumB
DSM board

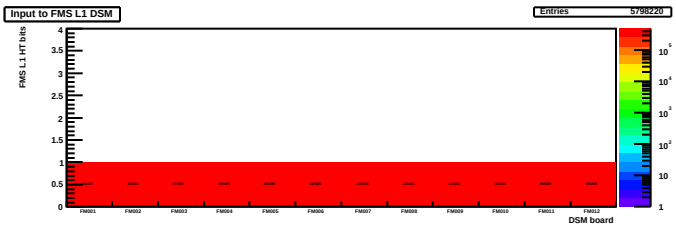

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

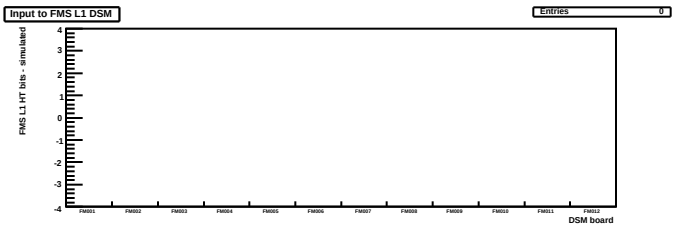

Input to FMS L1 DSM
Entries 5798220
sumAB
DSM board

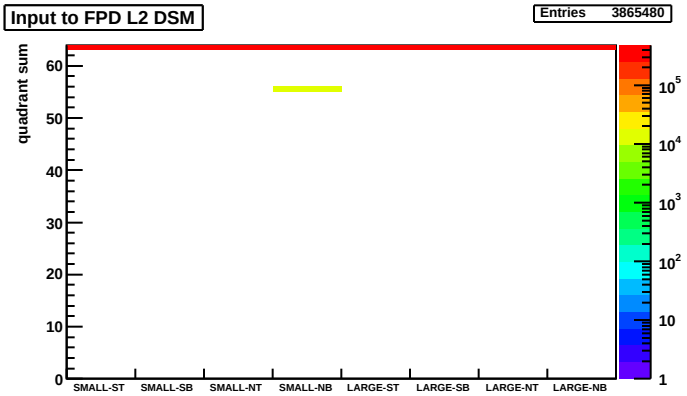

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

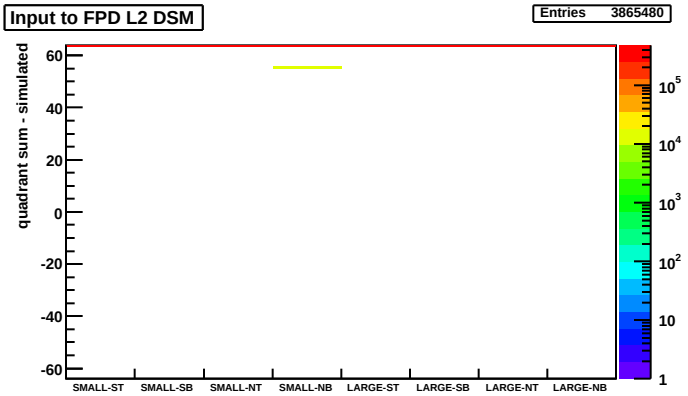

Input to FMS L1 DSM
Entries 5798220
sumA
DSM board

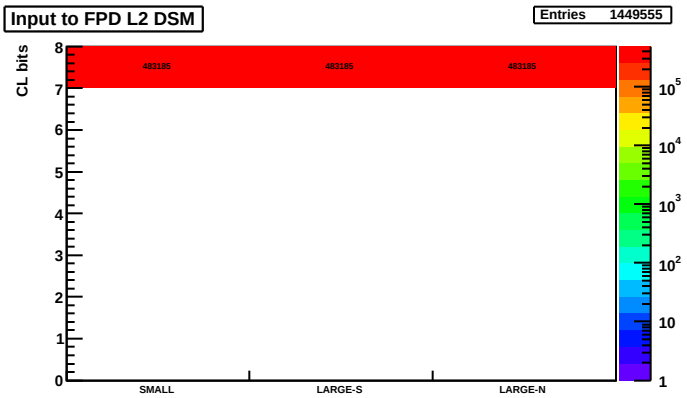

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

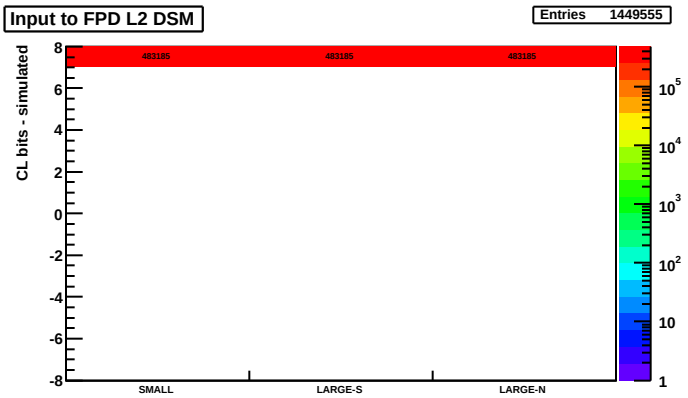

Input to FMS L1 DSM
Entries 5798220
FMS L1 HT bits
DSM board

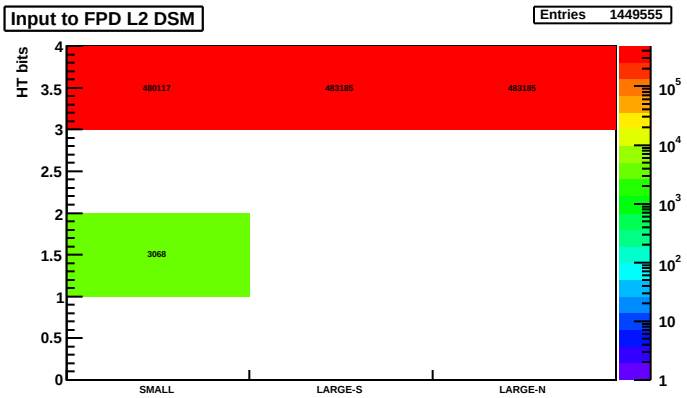

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

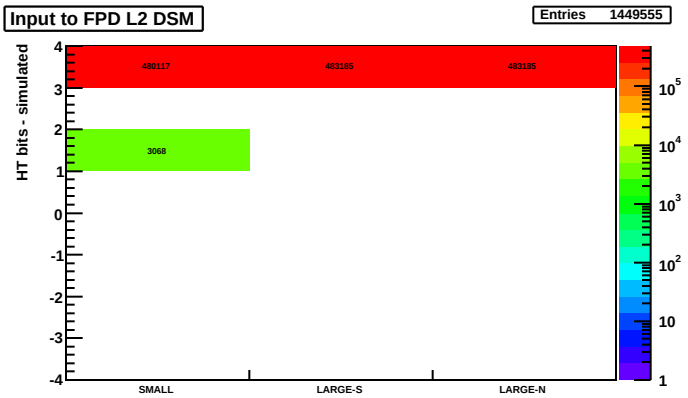

Input to FPD L2 DSM
Entries 3865480
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

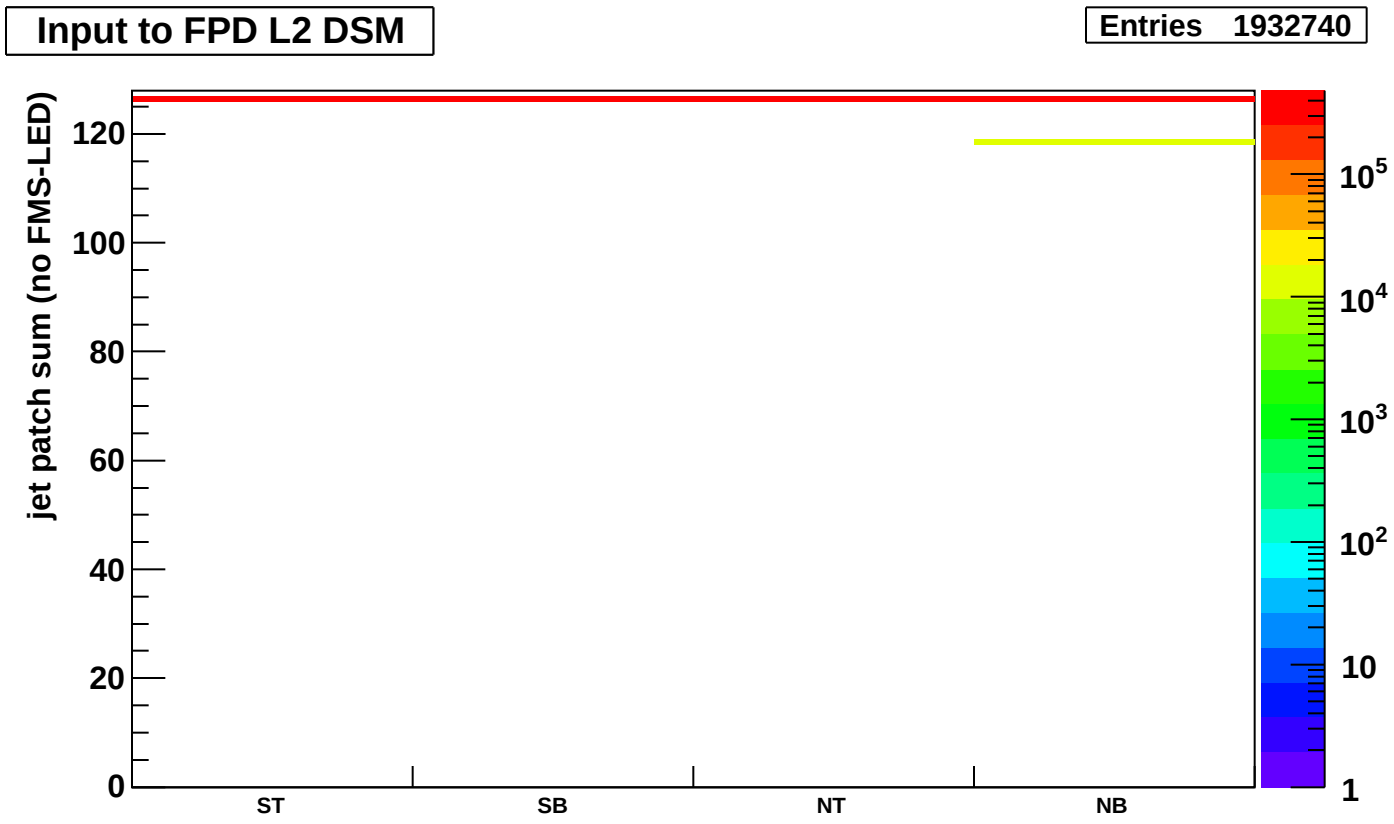

Input to FPD L2 DSM
Entries 3865480
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

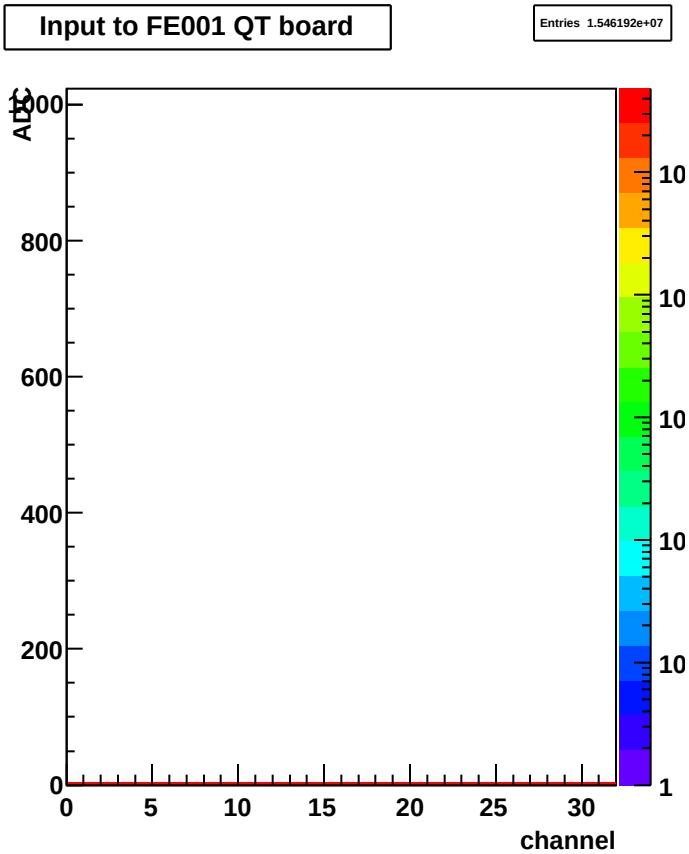

Input to FPD L2 DSM
Entries 1449555
CL bits
483185
483185
483185
SMALL
LARGE-S
LARGE-N

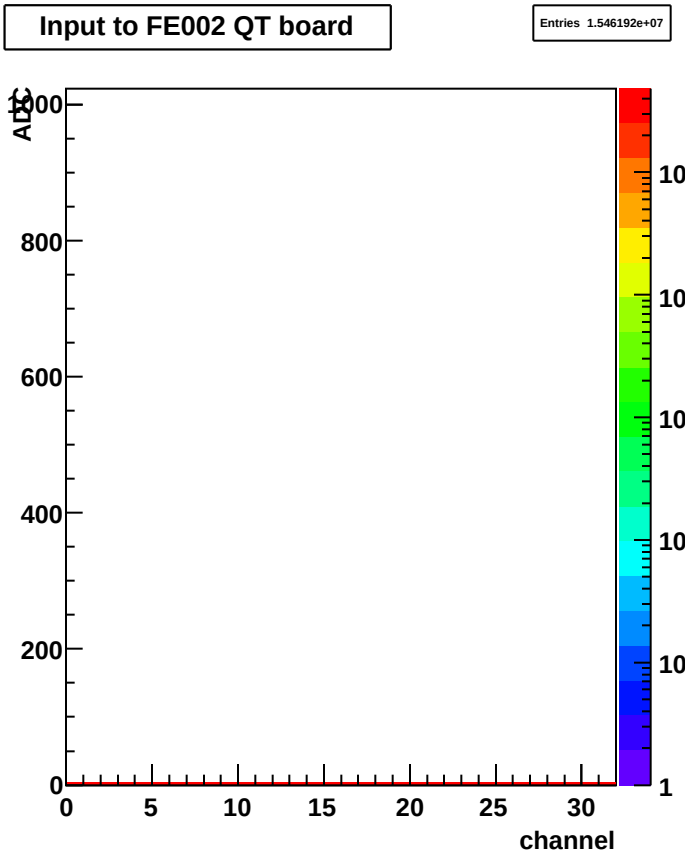

Input to FPD L2 DSM
Entries 1449555
CL bits - simulated
483185
483185
483185
SMALL
LARGE-S
LARGE-N

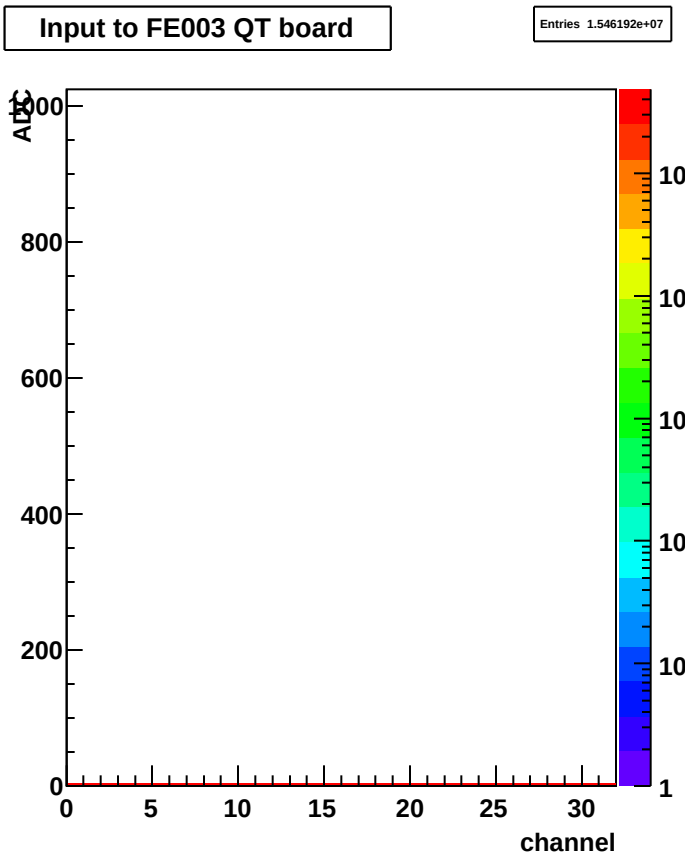

Input to FPD L2 DSM
Entries 1449555
HT bits
480117
483185
483185
3068
SMALL
LARGE-S
LARGE-N

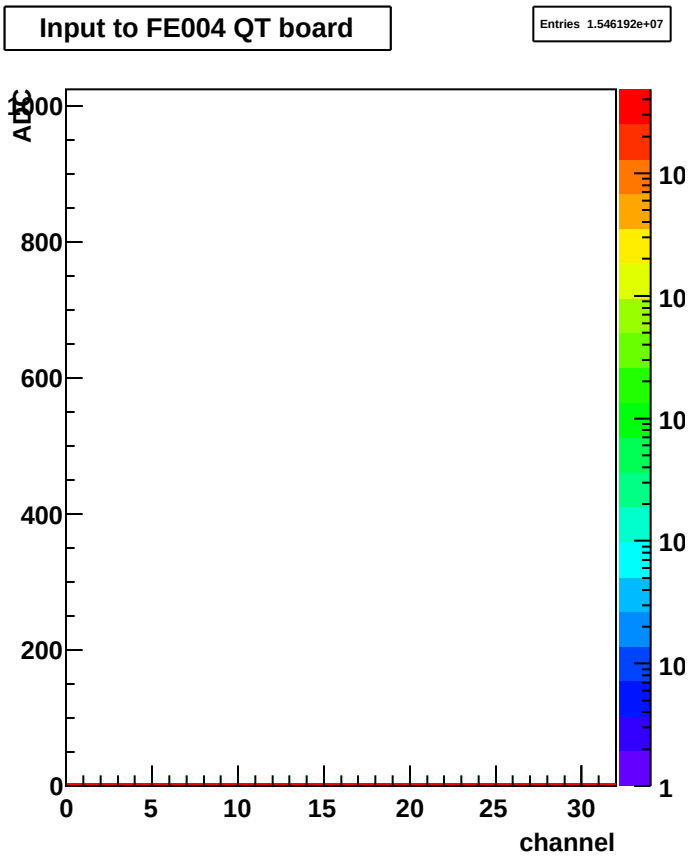

Input to FPD L2 DSM
Entries 1449555
HT bits - simulated
480117
483185
483185
3068
SMALL
LARGE-S
LARGE-N

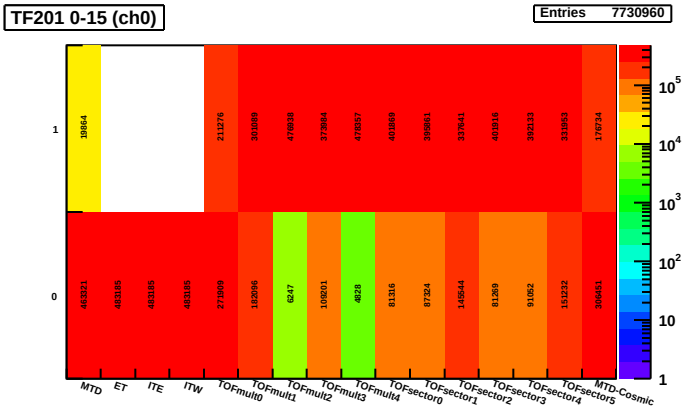

Input to FPD L2 DSM
Entries 1932740
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

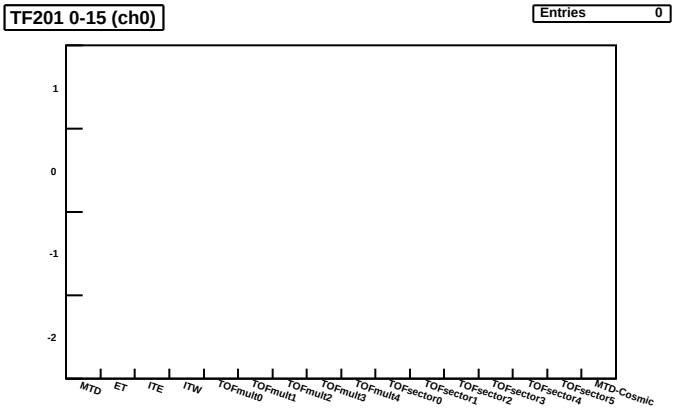

Input to FE001 QT board
Entries 1.546192e+07
ADC
channel

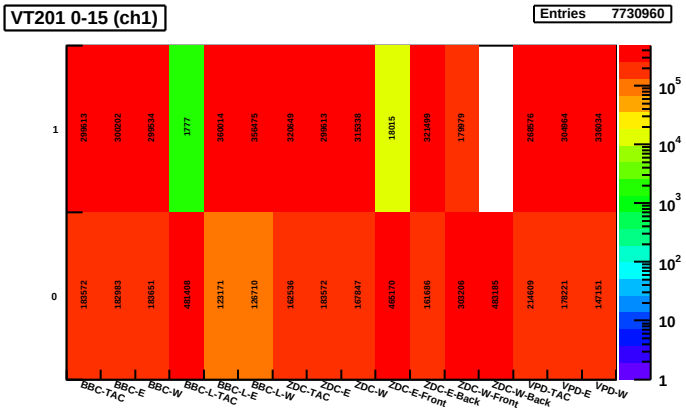

Input to FE002 QT board
Entries 1.546192e+07
ADC
channel

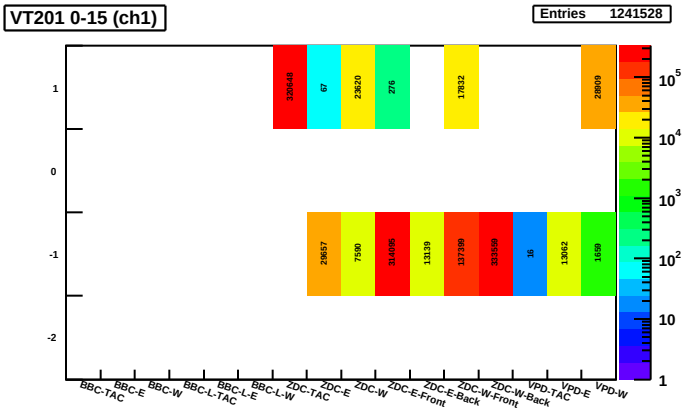

Input to FE003 QT board
Entries 1.546192e+07
ADC
channel

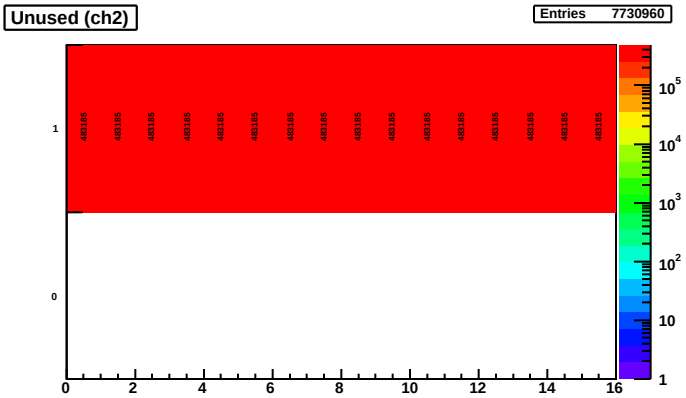

Input to FE004 QT board
Entries 1.546192e+07
ADC
channel

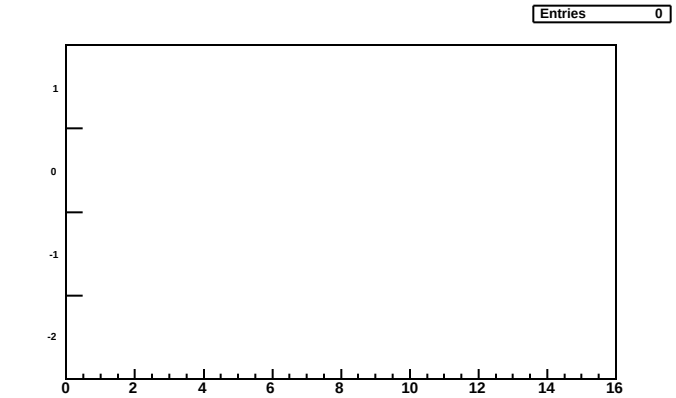

TF201 0-15 (ch0)
Entries 7730960
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

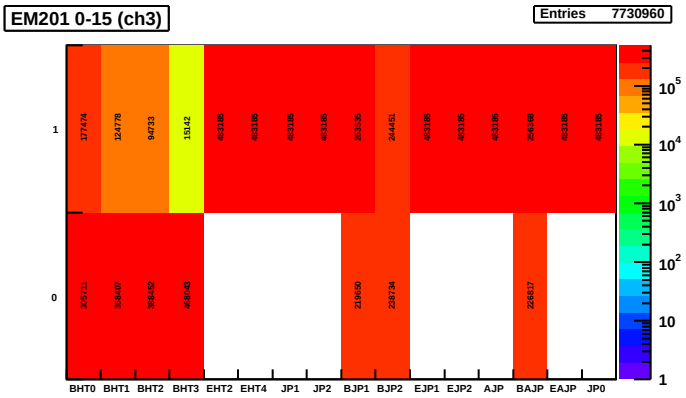

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

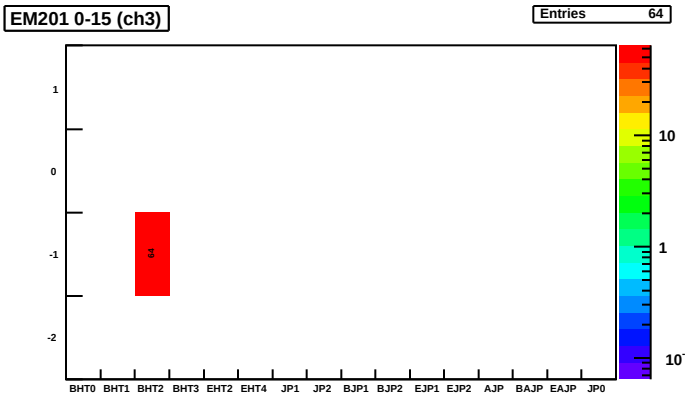

VT201 0-15 (ch1)
Entries 7730960
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1241528
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

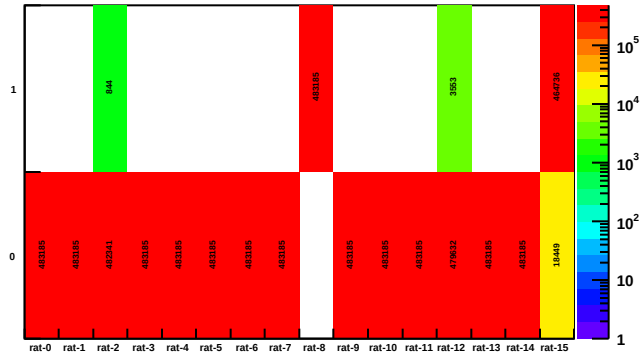

Unused (ch2)
Entries 7730960

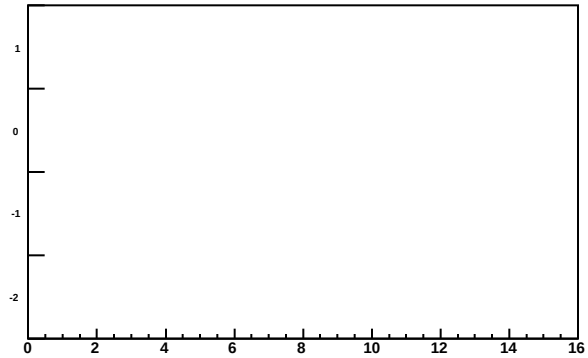

Entries 0


EM201 0-15 (ch3)
Entries 7730960
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

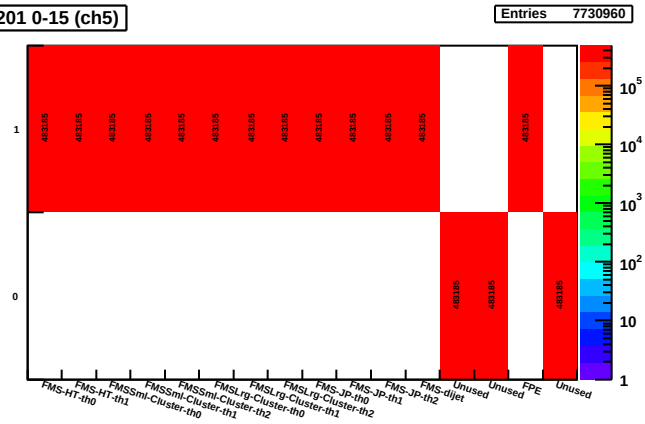

EM201 0-15 (ch3)
Entries 64
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

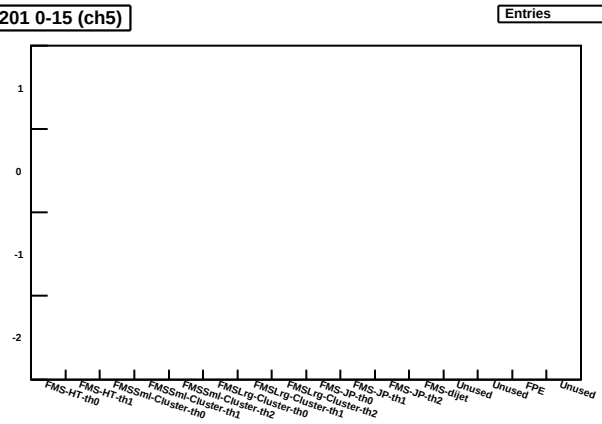




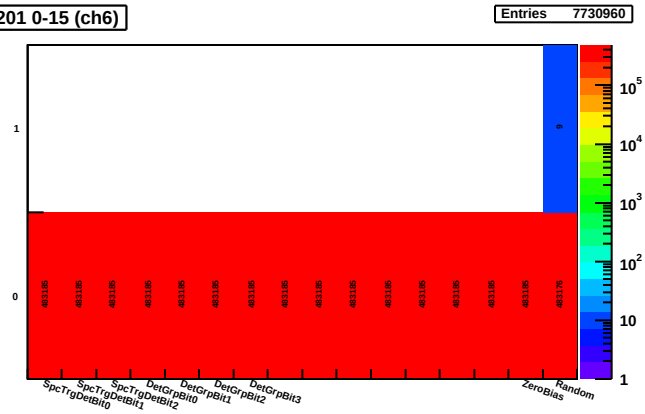
FP201 0-15 (ch5)

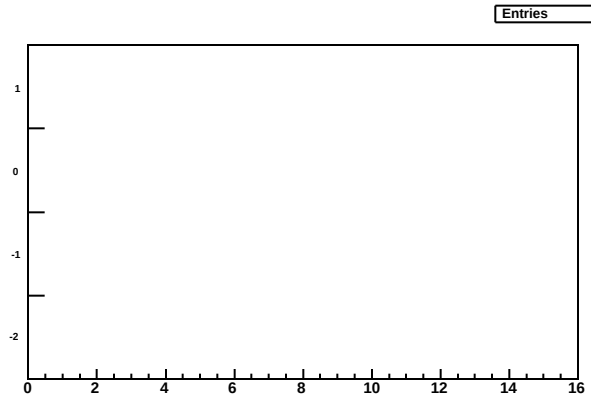
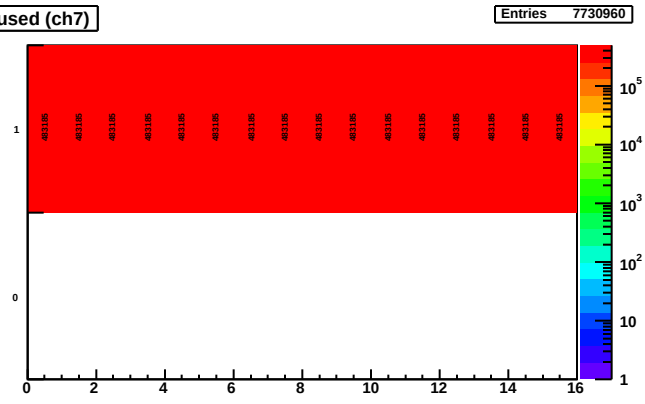
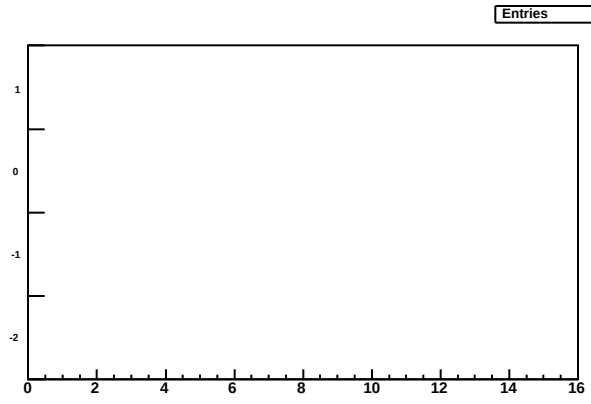


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)