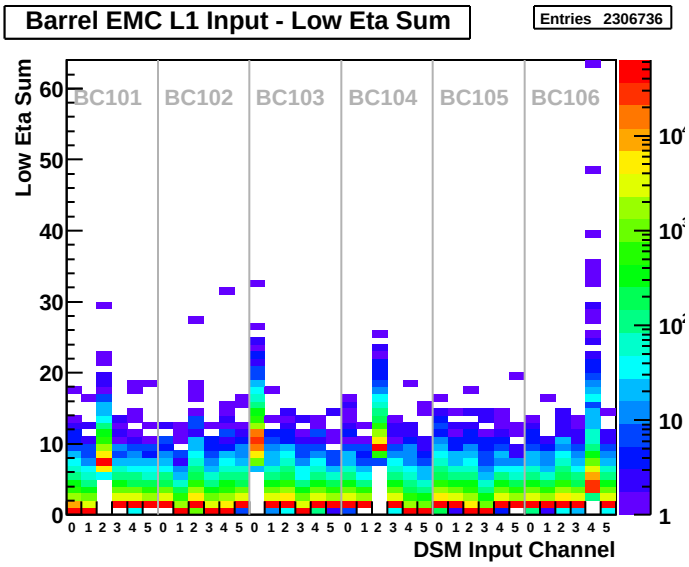
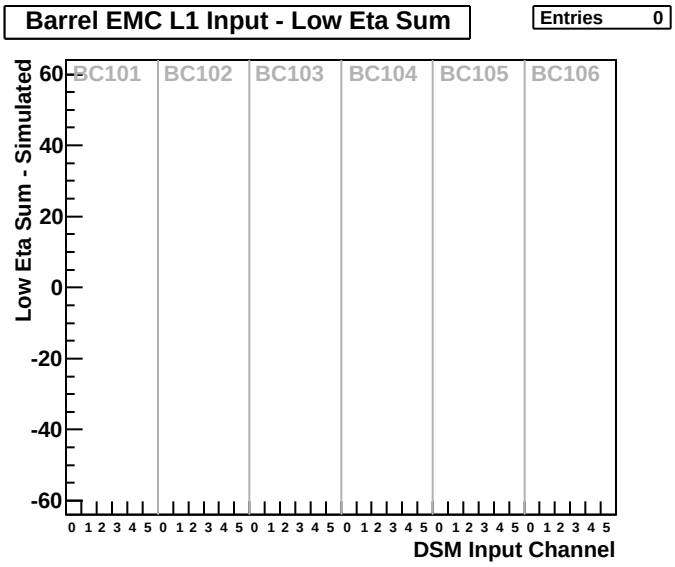
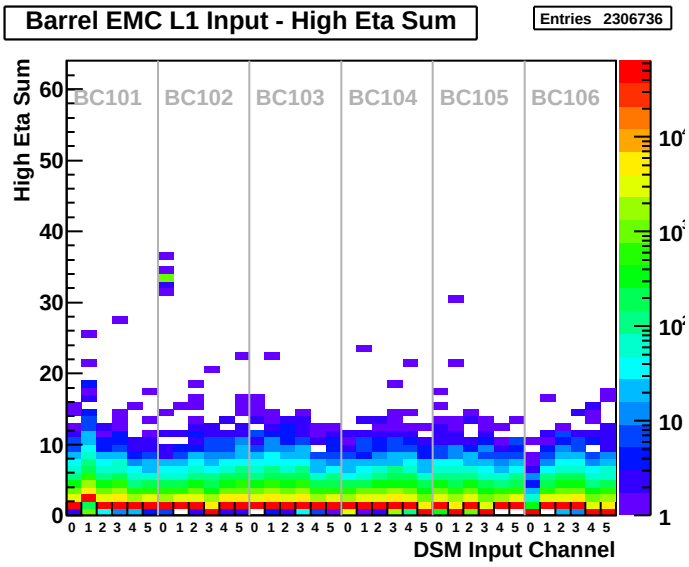
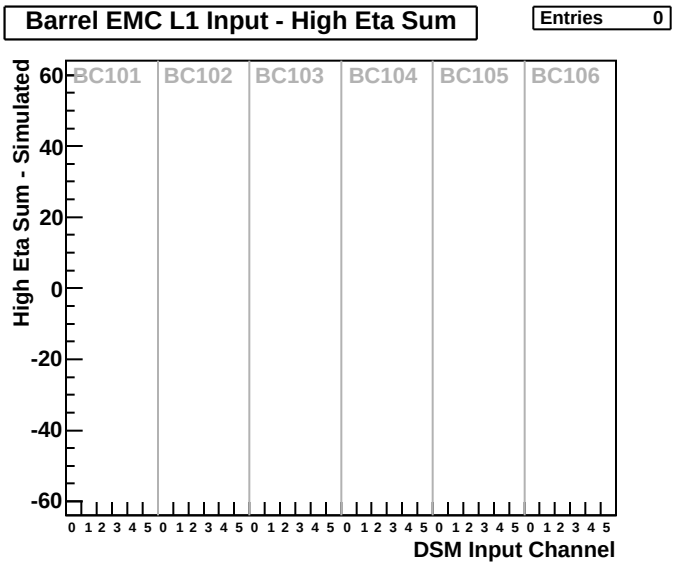
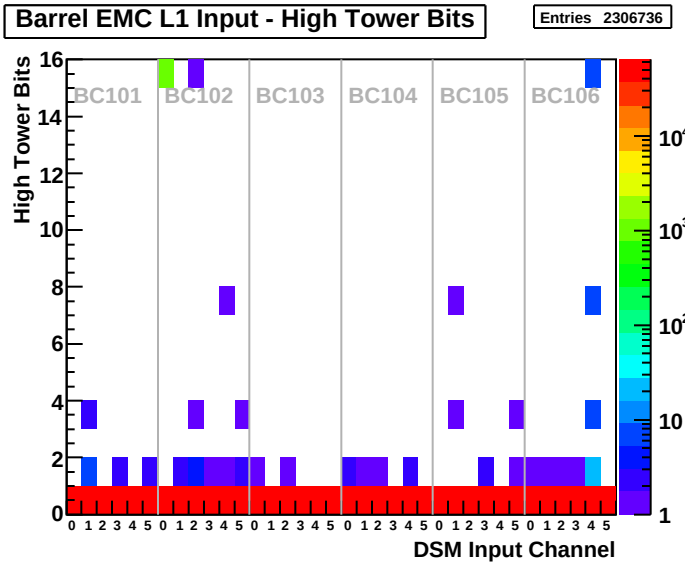
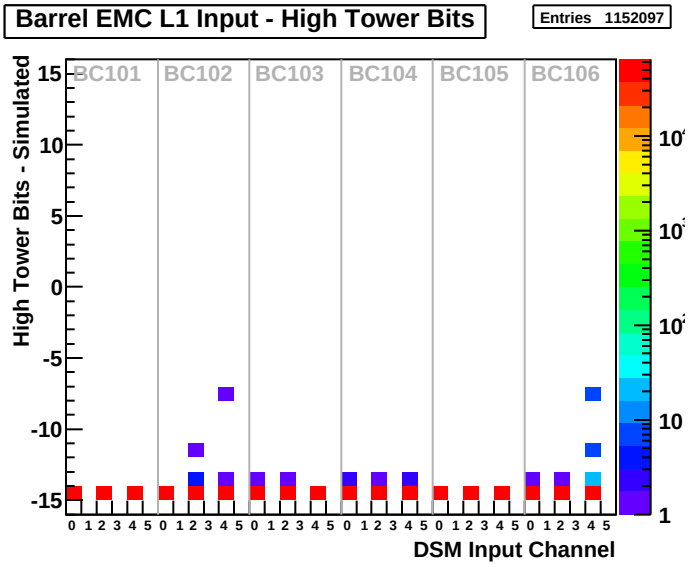

Barrel EMC L1 Input - Low Eta Sum
Entries 2306736
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

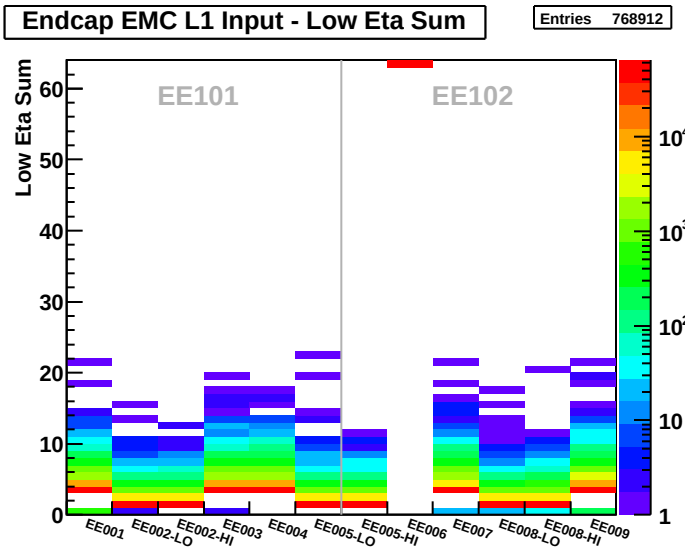

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

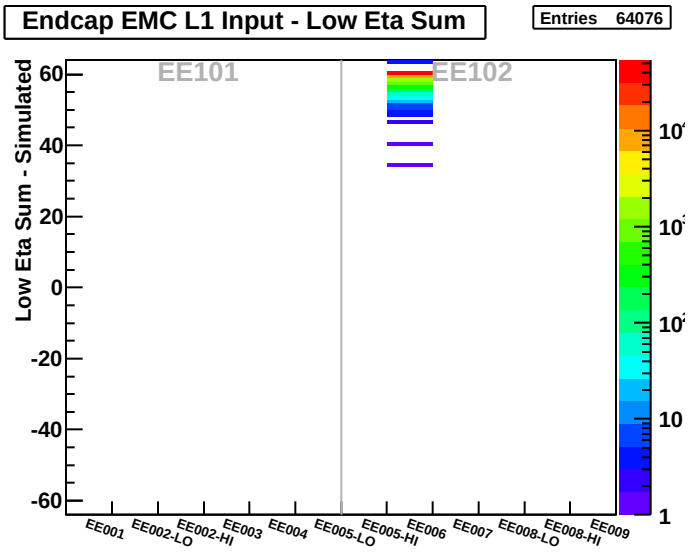

Barrel EMC L1 Input - High Eta Sum
Entries 2306736
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

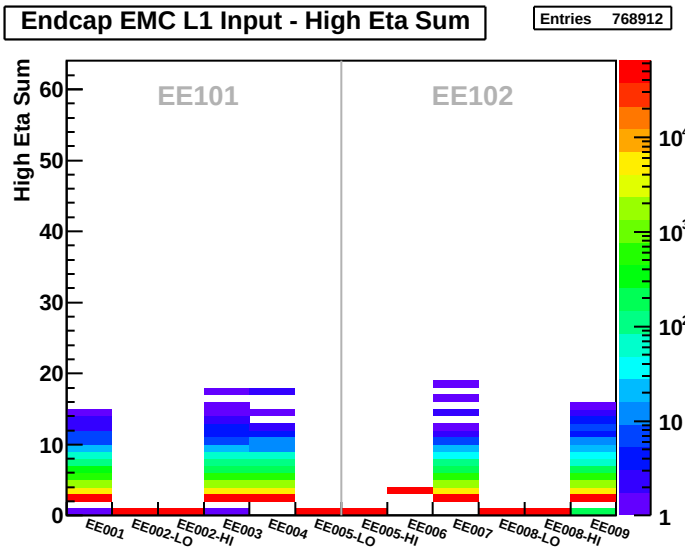

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

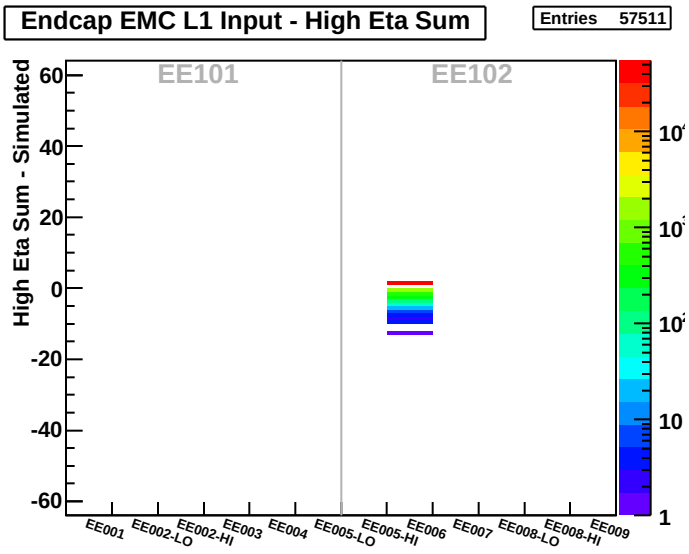

Barrel EMC L1 Input - High Tower Bits
Entries 2306736
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

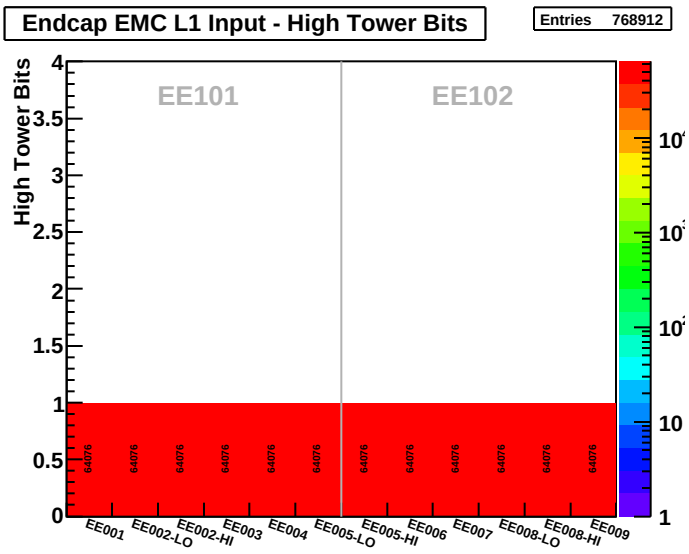

Barrel EMC L1 Input - High Tower Bits
Entries 1152097
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

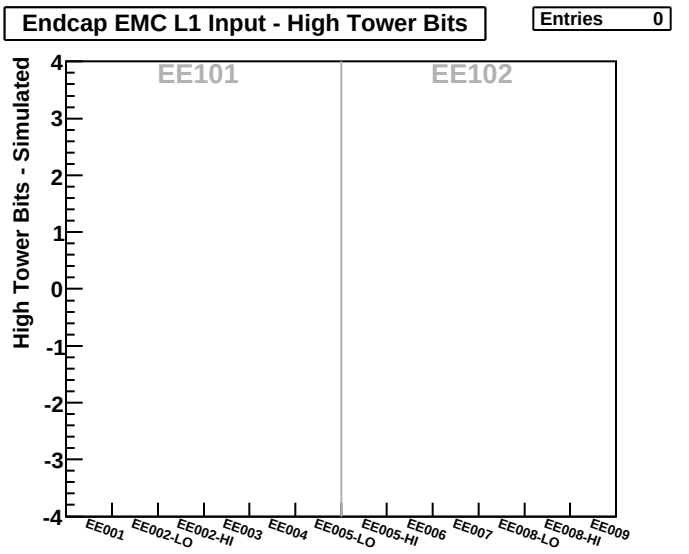

Endcap EMC L1 Input - Low Eta Sum
Entries 768912
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

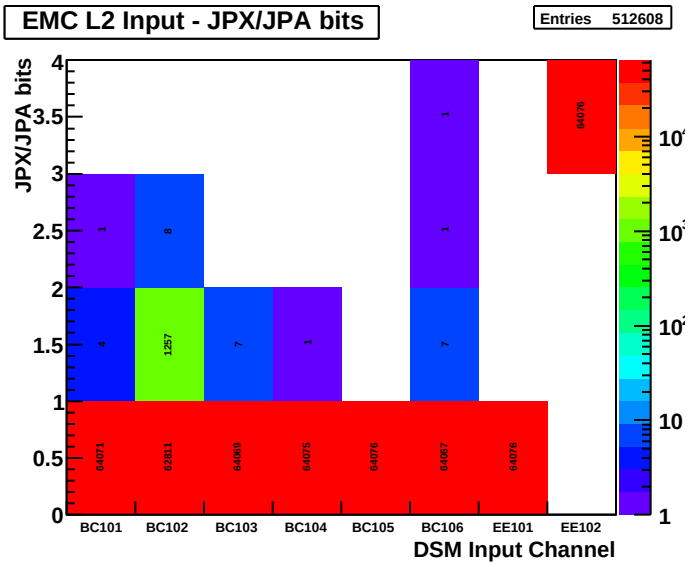

Endcap EMC L1 Input - Low Eta Sum
Entries 64076
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

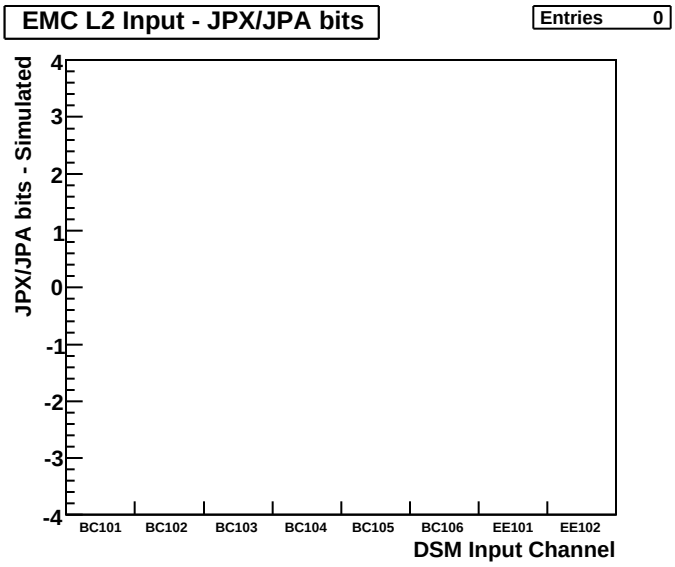

Endcap EMC L1 Input - High Eta Sum
Entries 768912
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

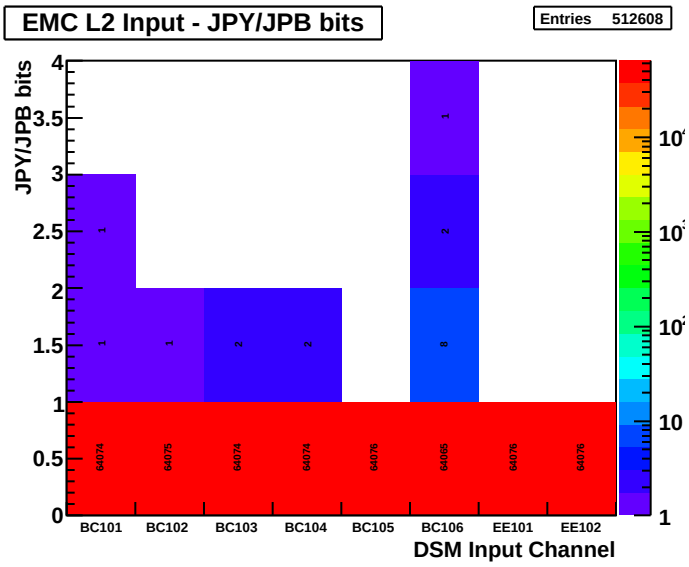

Endcap EMC L1 Input - High Eta Sum
Entries 57511
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

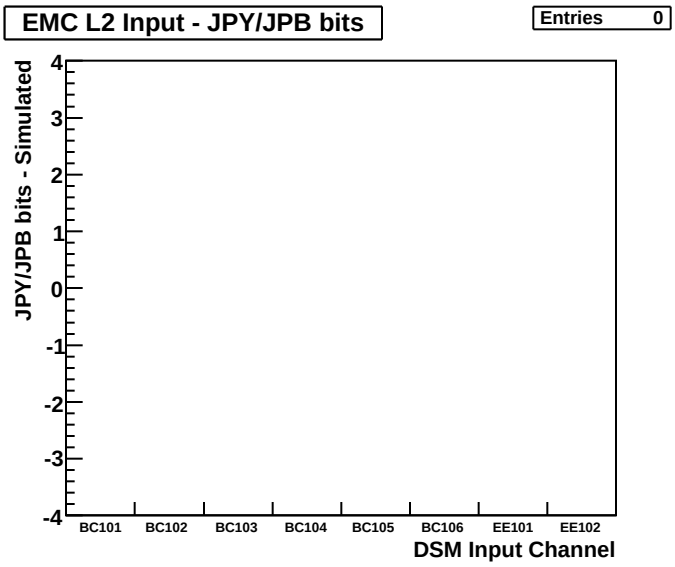

Endcap EMC L1 Input - High Tower Bits
Entries 768912
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

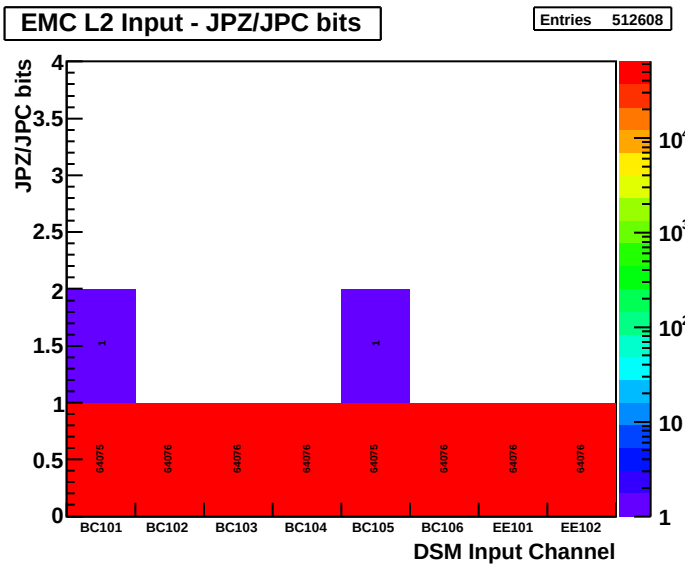

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

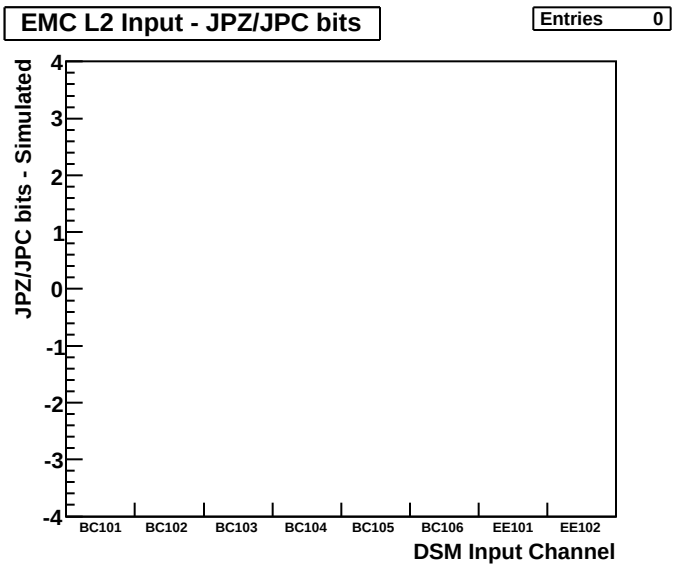

EMC L2 Input - JPX/JPA bits
Entries 512608
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

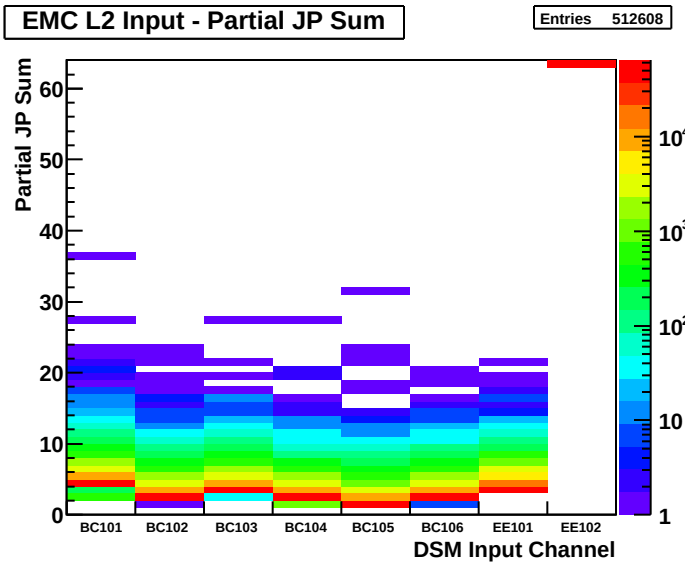

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

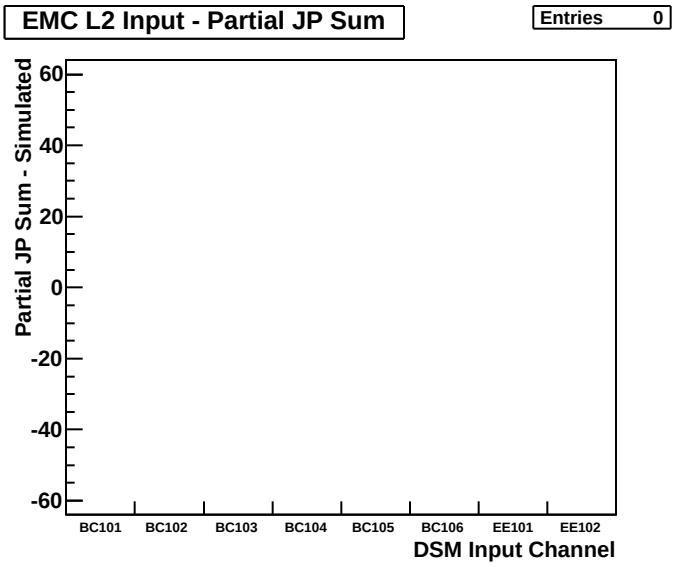

EMC L2 Input - JPY/JPB bits
Entries 512608
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

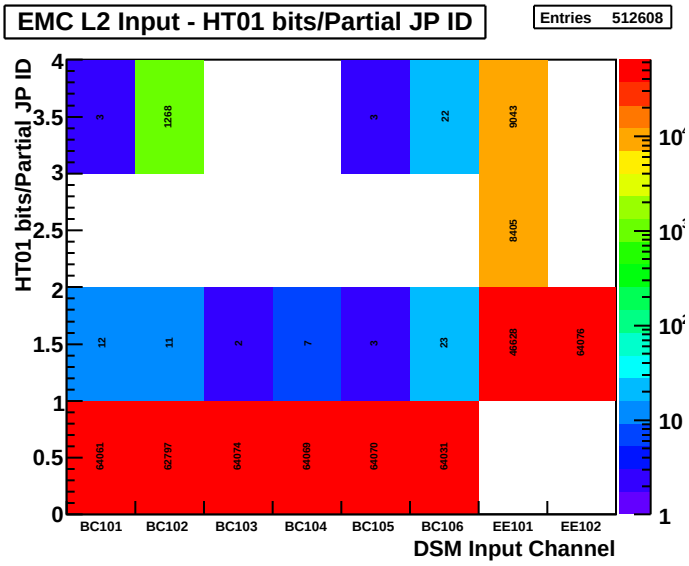

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

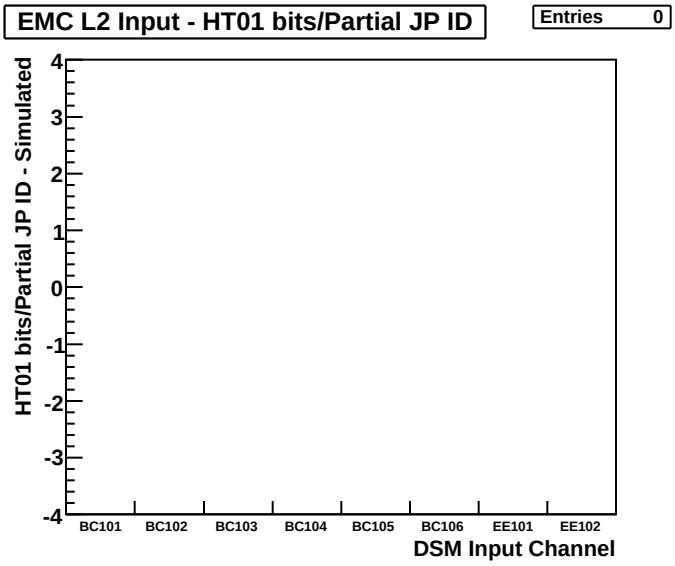

EMC L2 Input - JPZ/JPC bits
Entries 512608
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

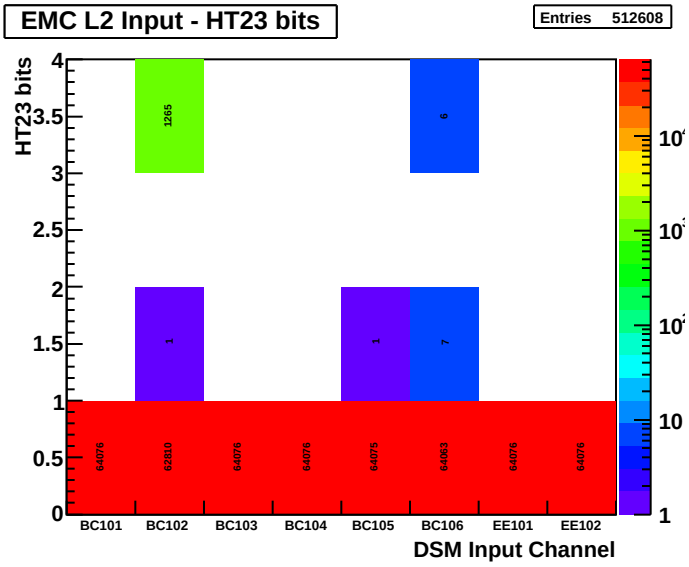

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

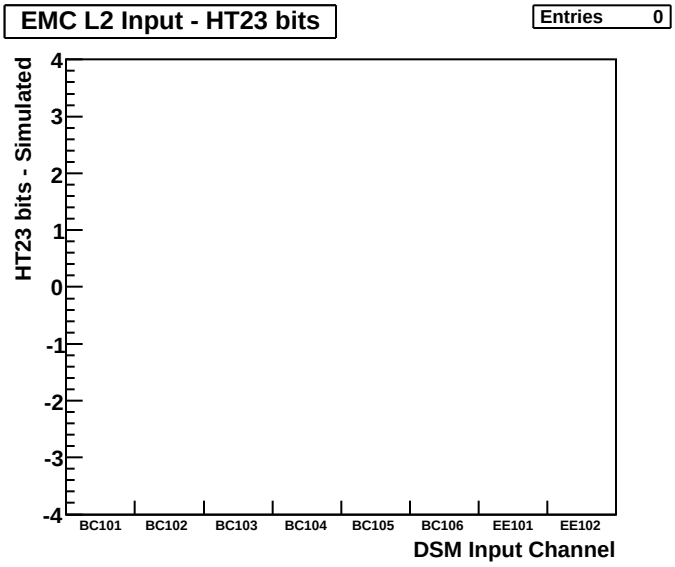

EMC L2 Input - Partial JP Sum
Entries 512608
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

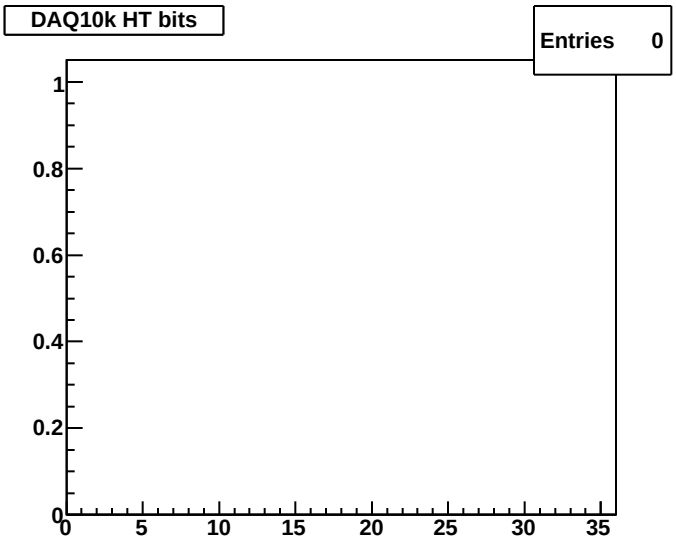

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

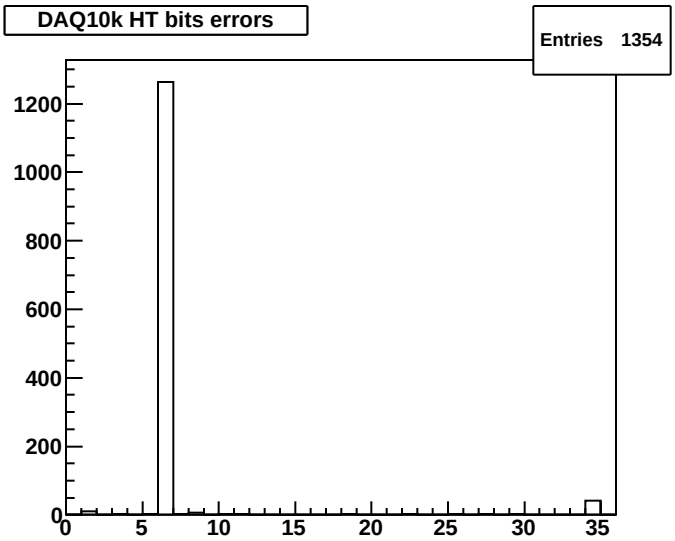

EMC L2 Input - HT01 bits/Partial JP ID
Entries 512608
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

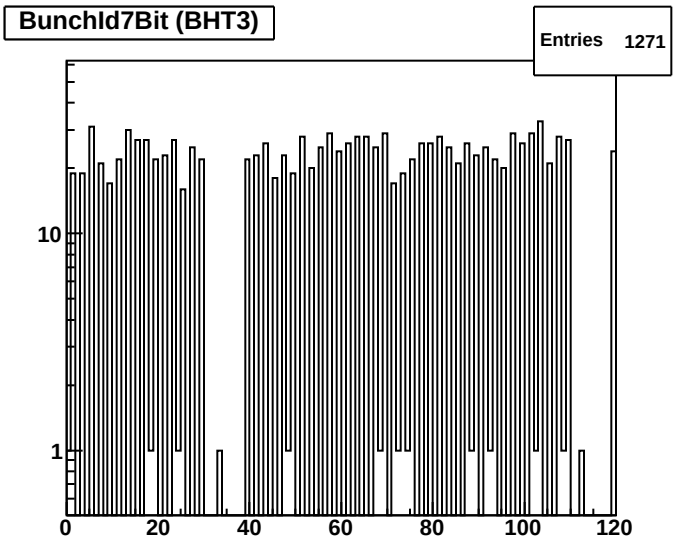

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

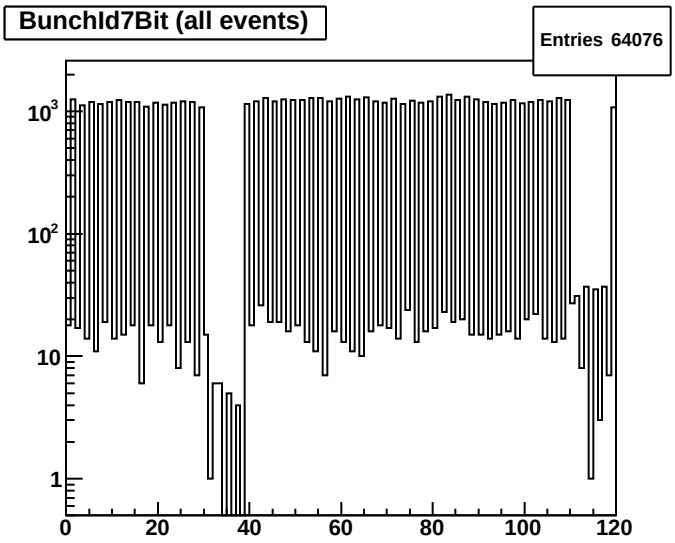

EMC L2 Input - HT23 bits
Entries 512608
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

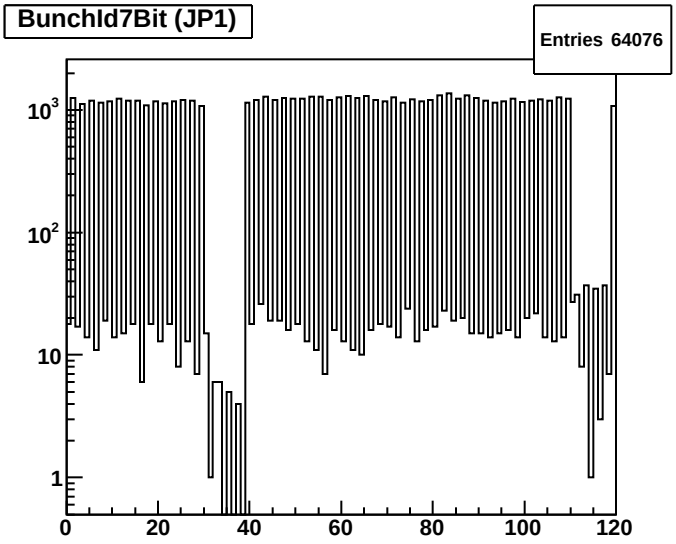

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

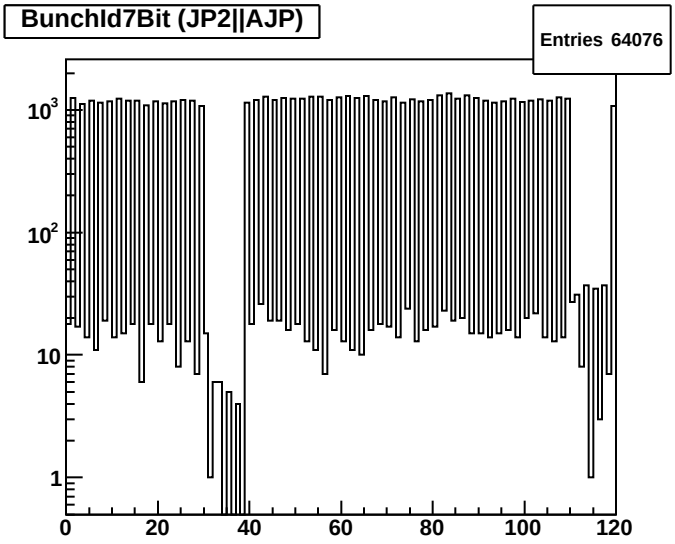

DAQ10k HT bits
Entries 0

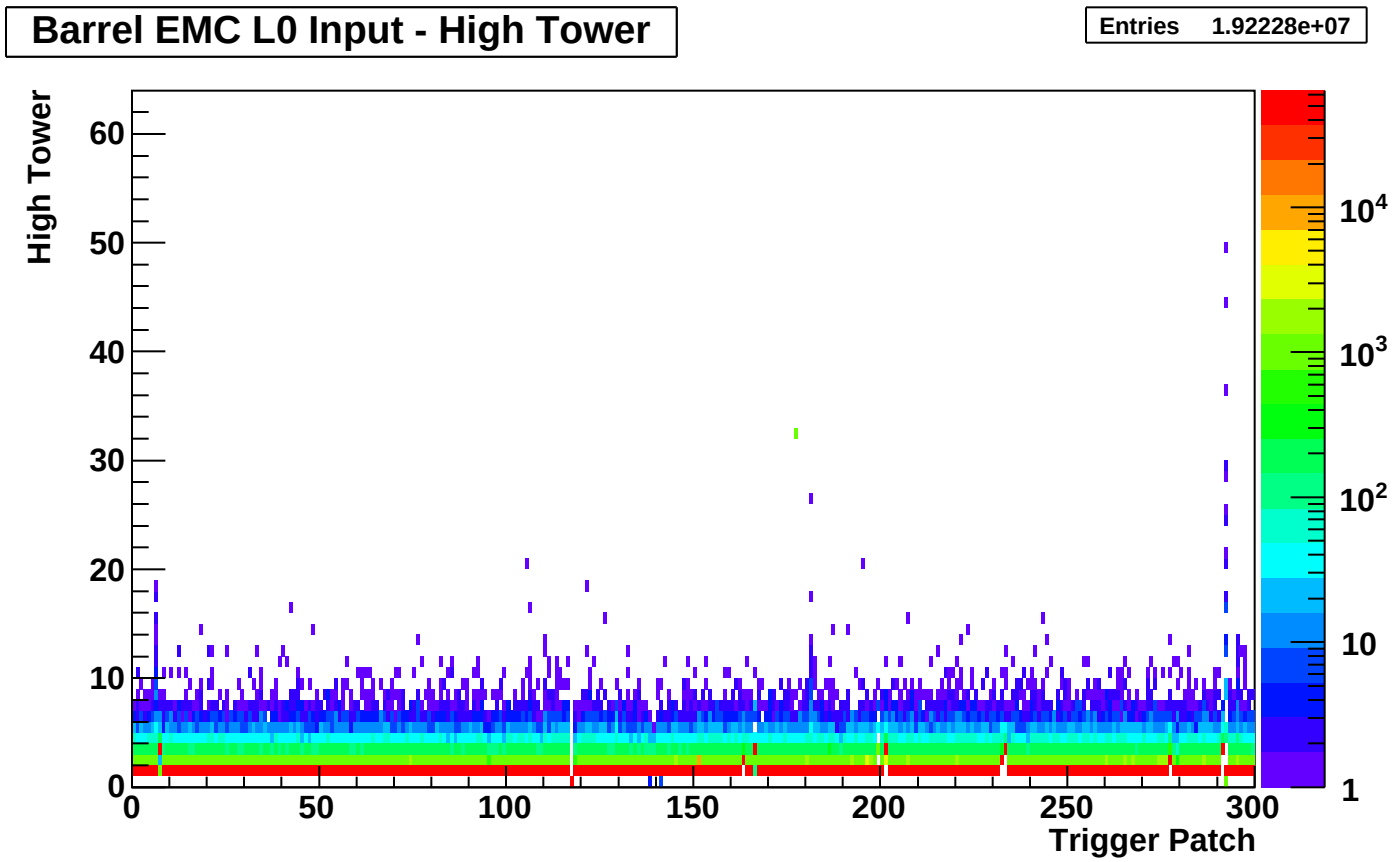

DAQ10k HT bits errors
Entries 1354

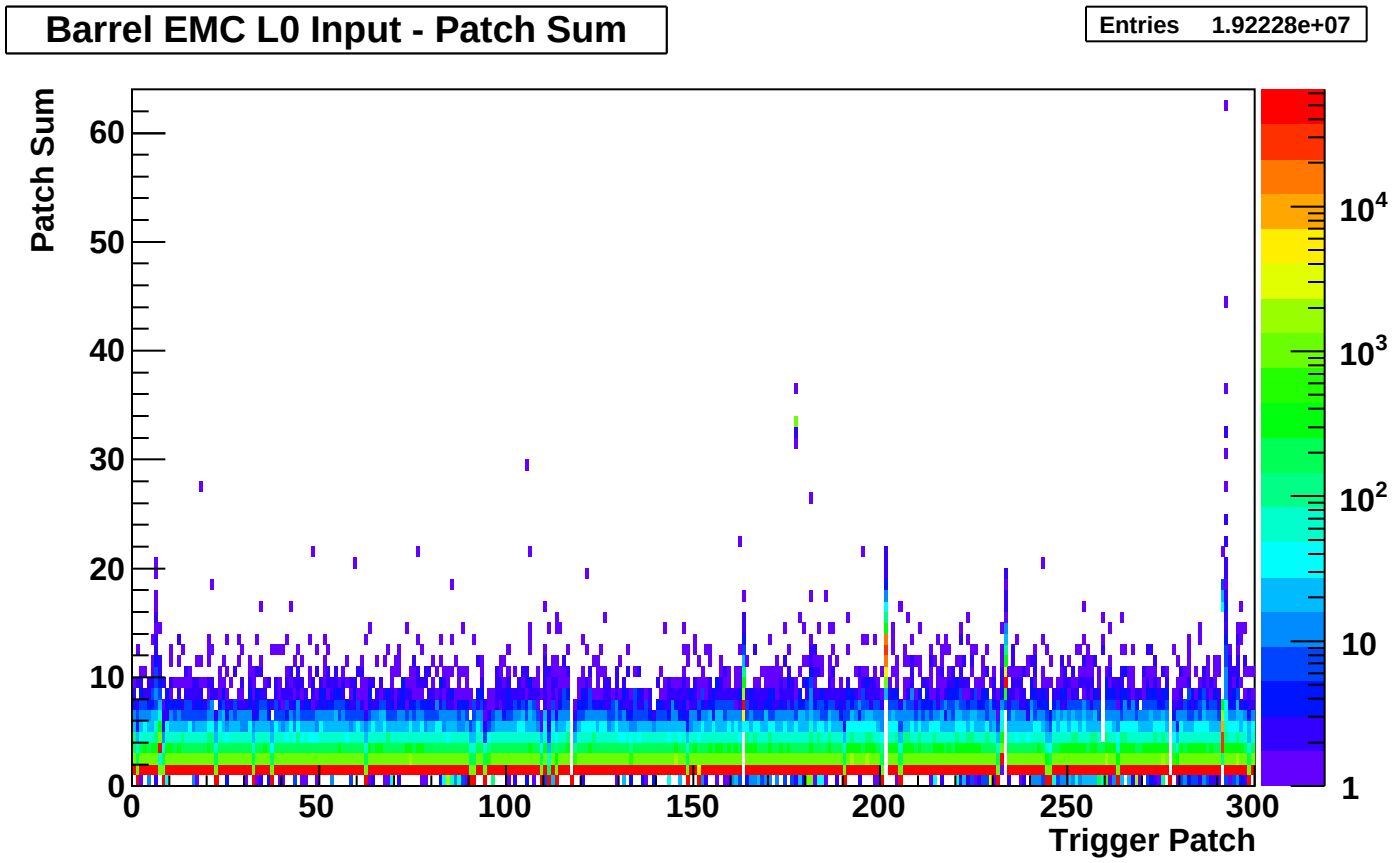

BunchId7Bit (BHT3)
Entries 1271

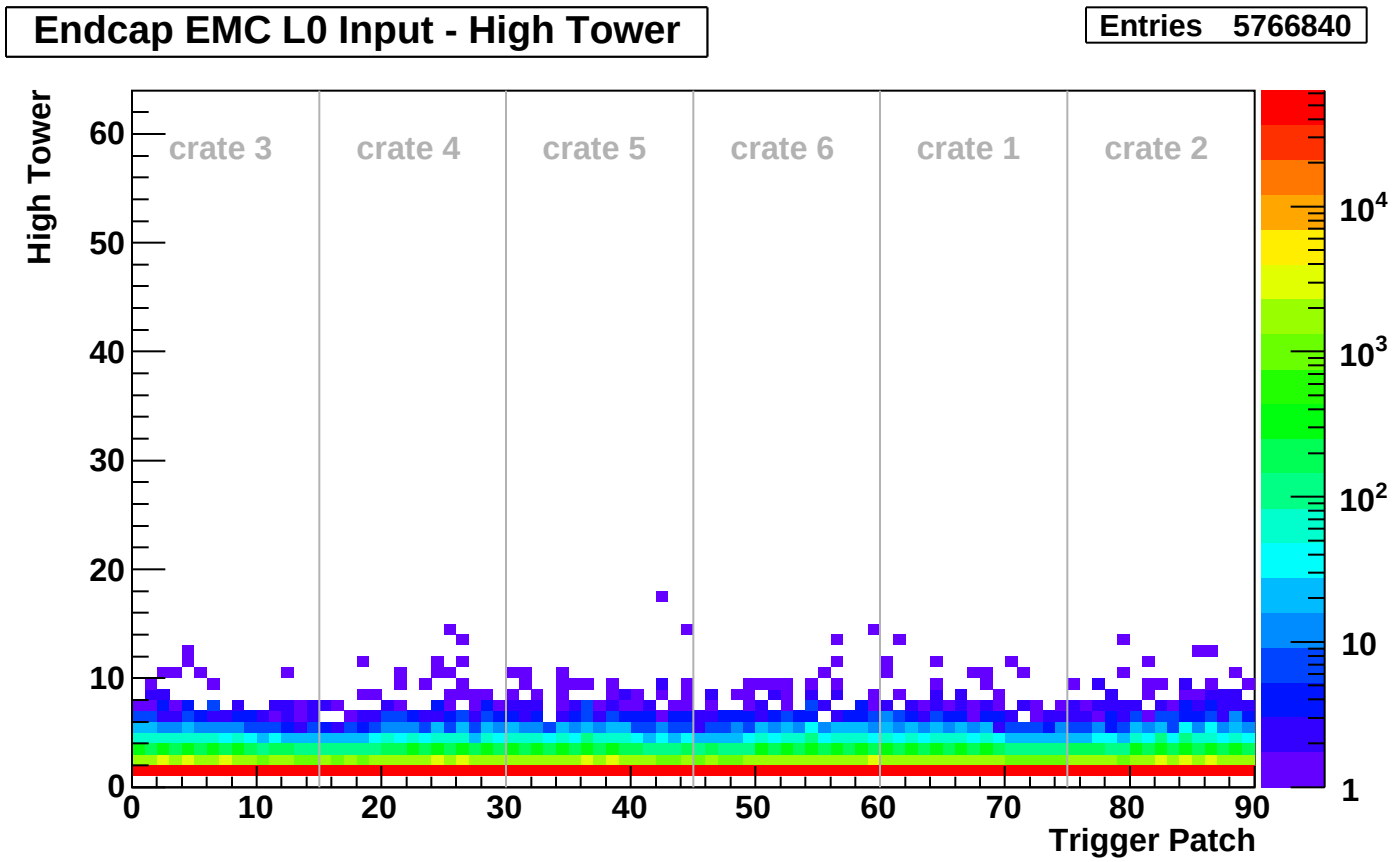

BunchId7Bit (all events)
Entries 64076

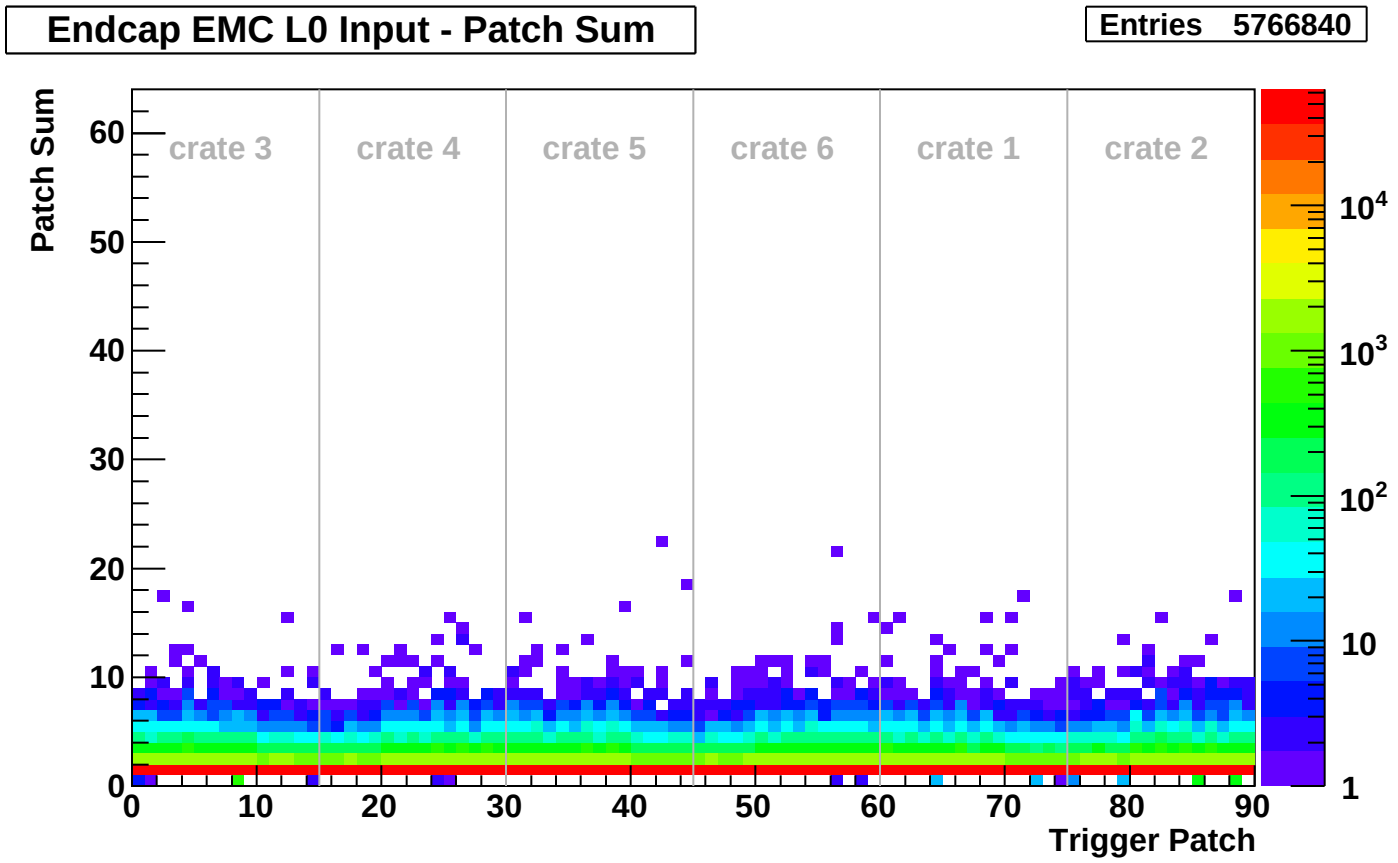

BunchId7Bit (JP1)
Entries 64076

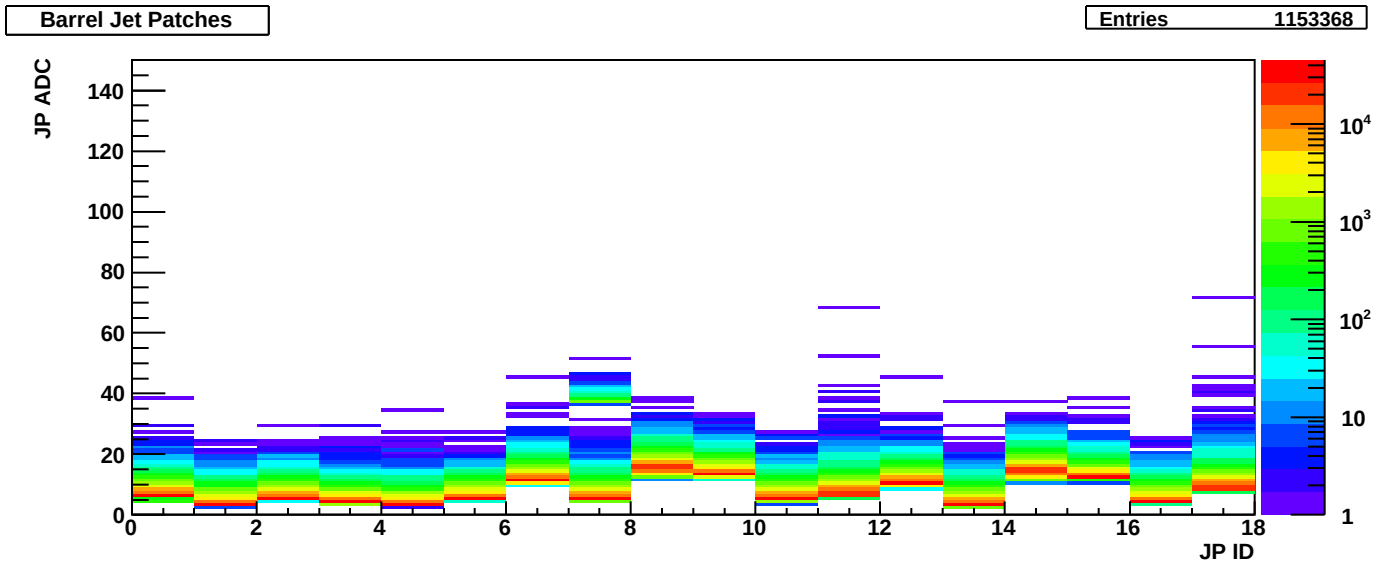

BunchId7Bit (JP2||AJP)
Entries 64076

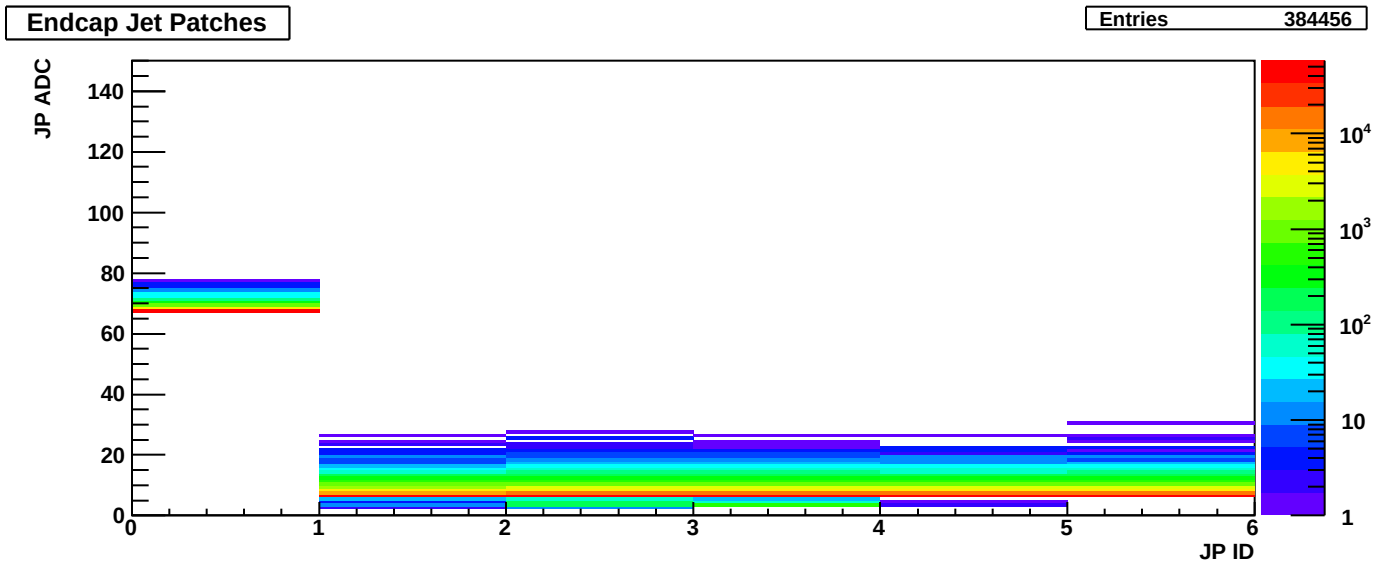

Barrel EMC L0 Input - High Tower
Entries 1.92228e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

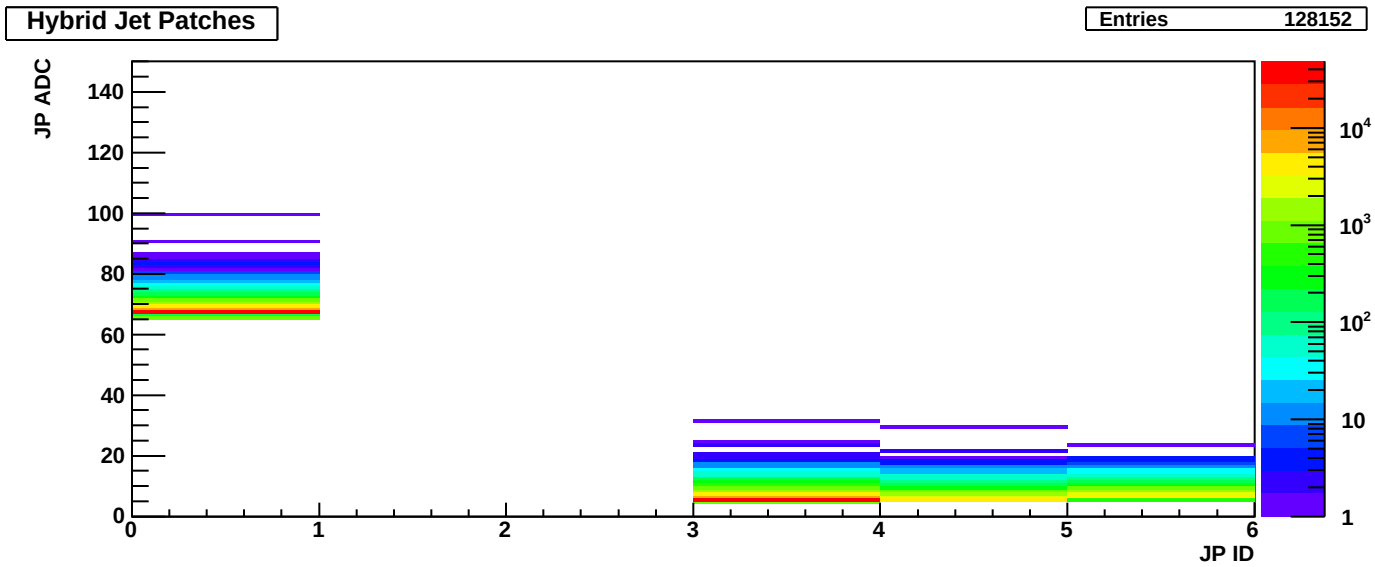

Barrel EMC L0 Input - Patch Sum
Entries 1.92228e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

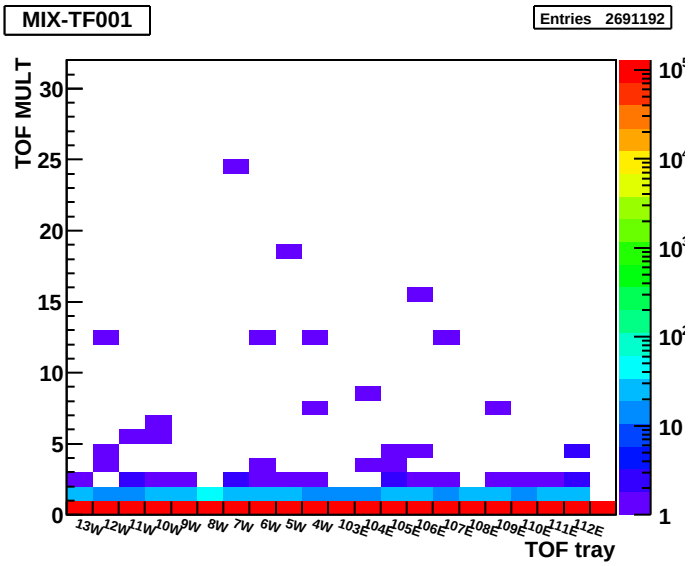

Endcap EMC L0 Input - High Tower
Entries 5766840
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

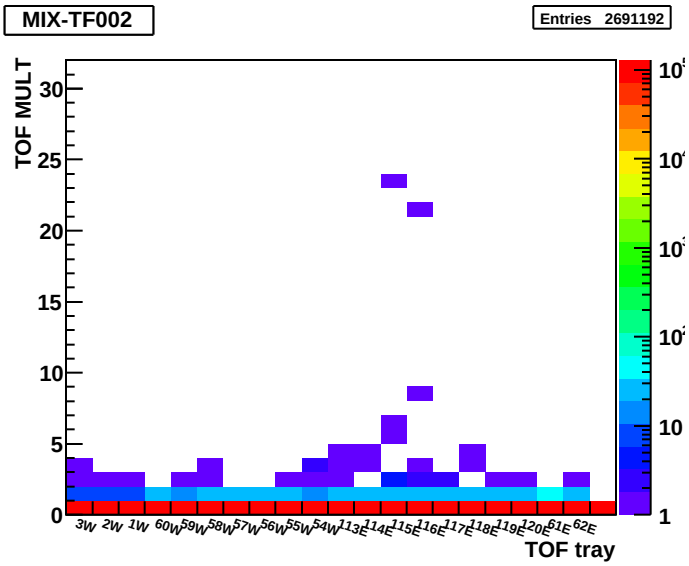

Endcap EMC L0 Input - Patch Sum
Entries 5766840
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

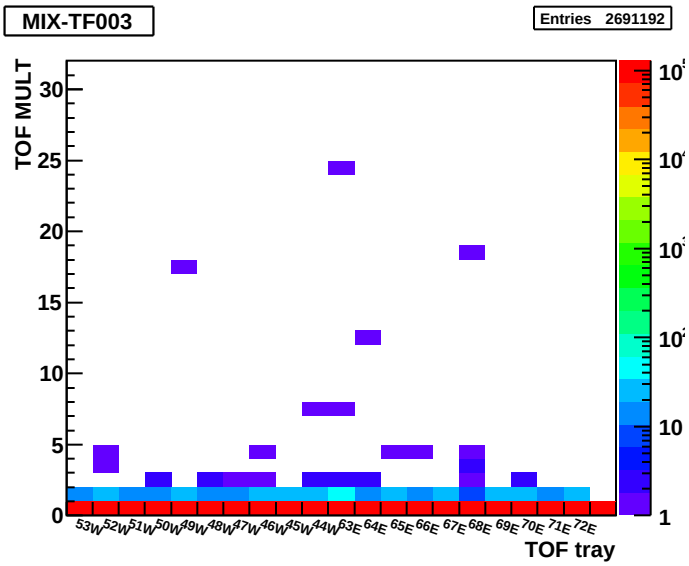

Barrel Jet Patches
Entries 1153368
JP ADC
JP ID

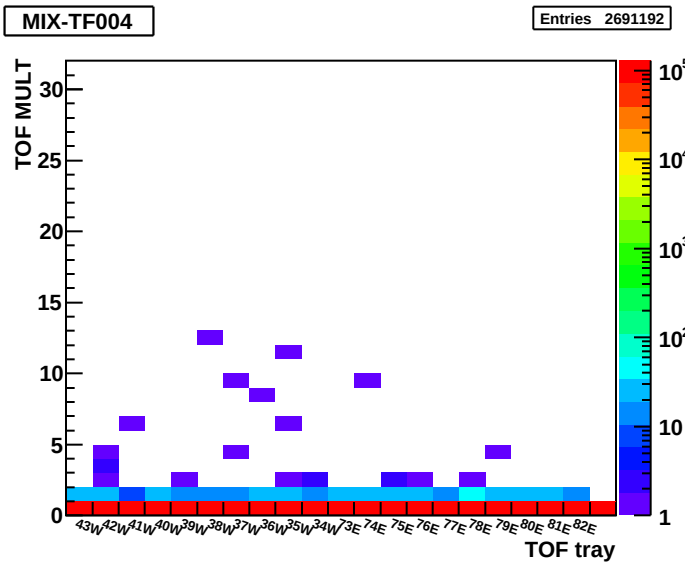

Endcap Jet Patches
Entries 384456
JP ADC
JP ID

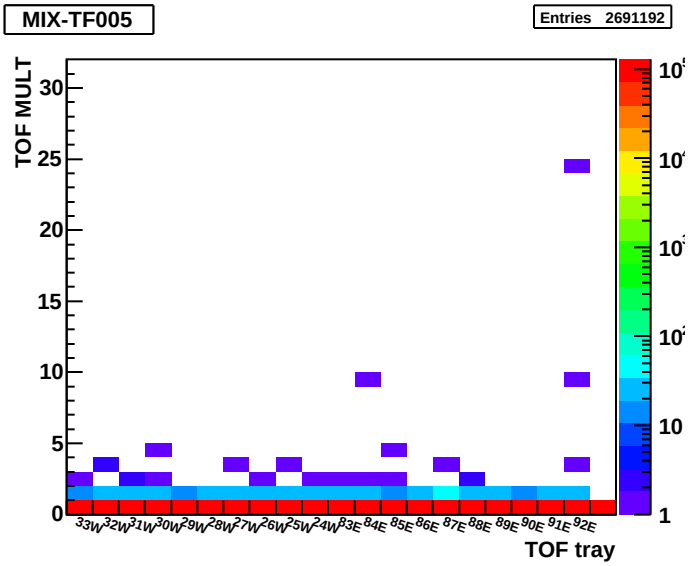

Hybrid Jet Patches
Entries 128152
JP ADC
JP ID

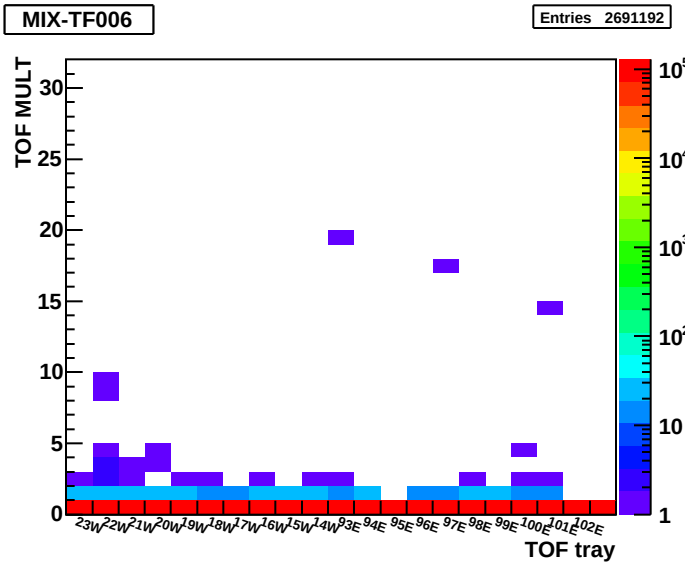

MIX-TF001
Entries 2691192
TOF MULT
TOF tray

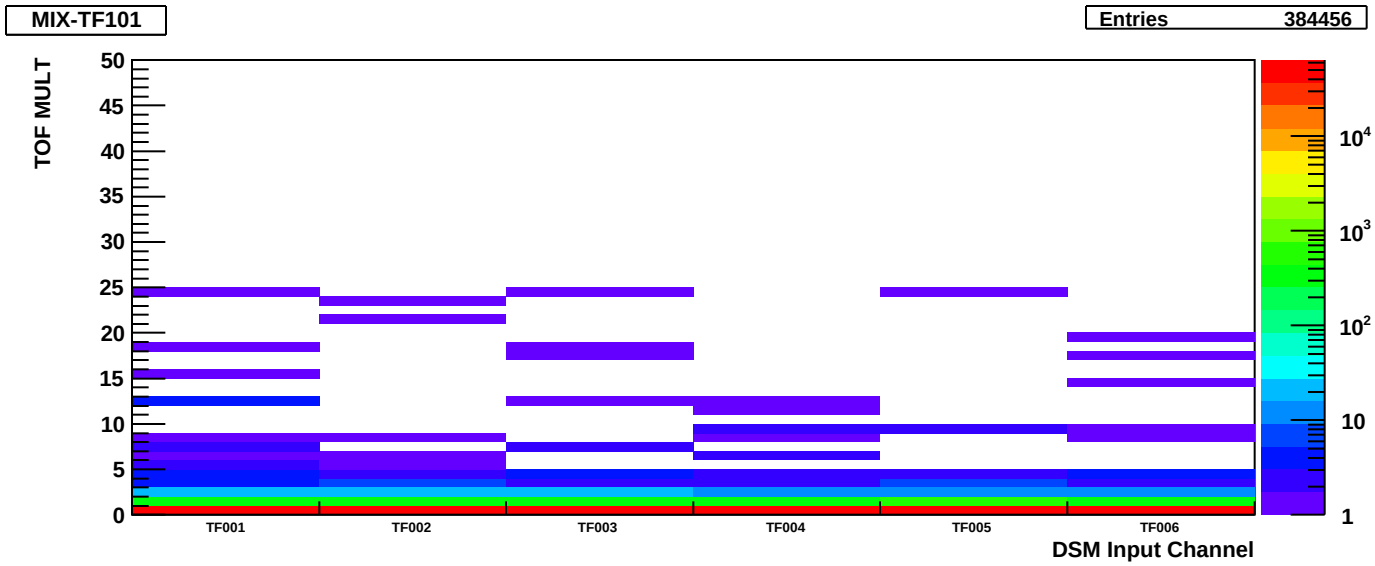

MIX-TF002
Entries 2691192
TOF MULT
TOF tray

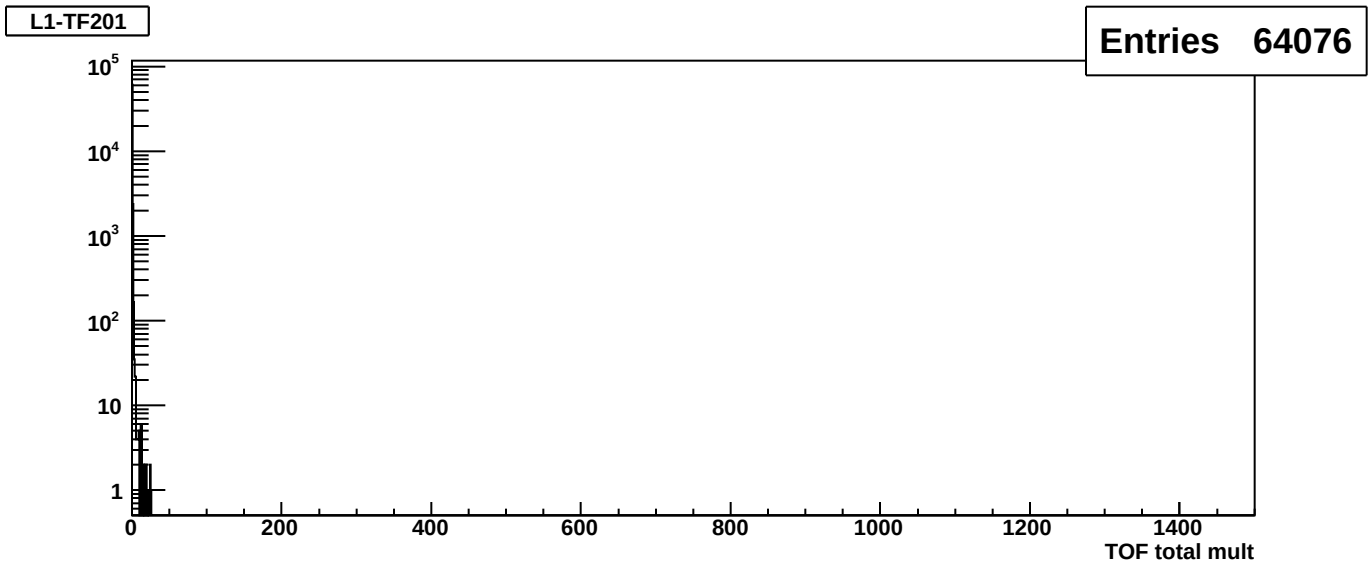

MIX-TF003
Entries 2691192
TOF MULT
TOF tray

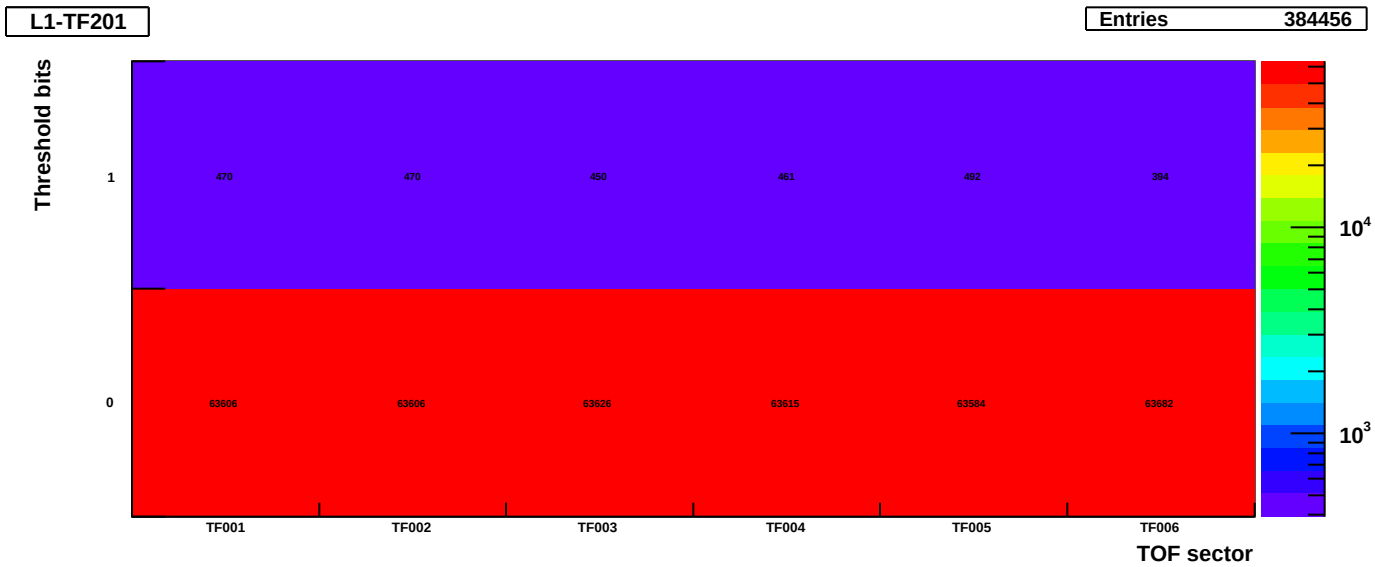

MIX-TF004
Entries 2691192
TOF MULT
TOF tray

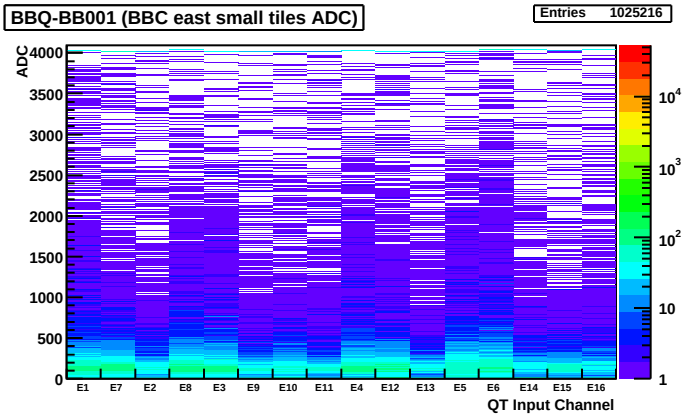

MIX-TF005
Entries 2691192
TOF MULT
TOF tray

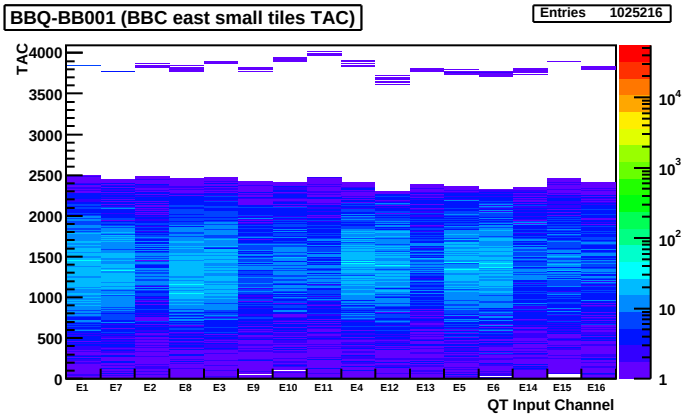

MIX-TF006
Entries 2691192
TOF MULT
TOF tray

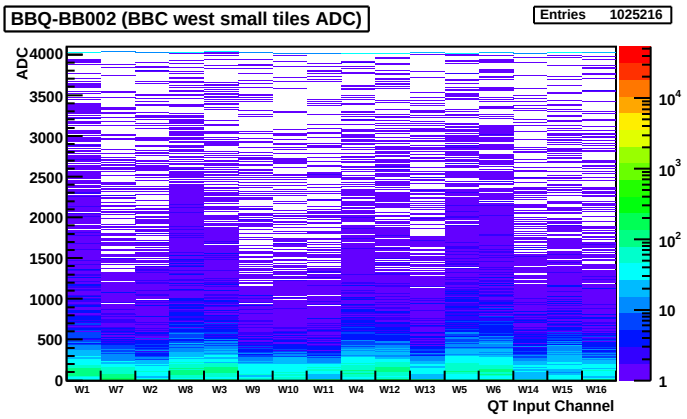

MIX-TF101
Entries 384456
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4
10^3
10^2
10
1

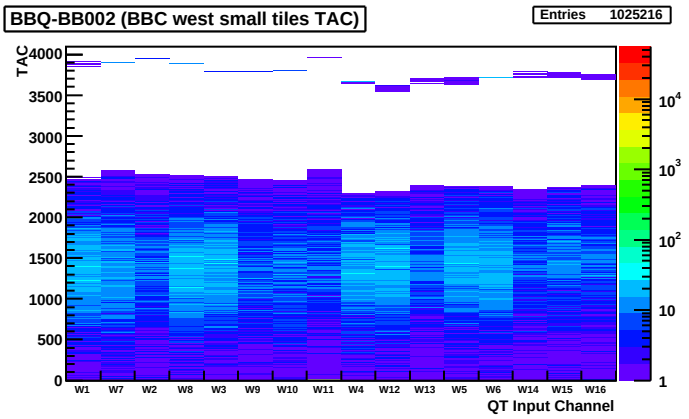

L1-TF201
Entries 64076
10^5
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

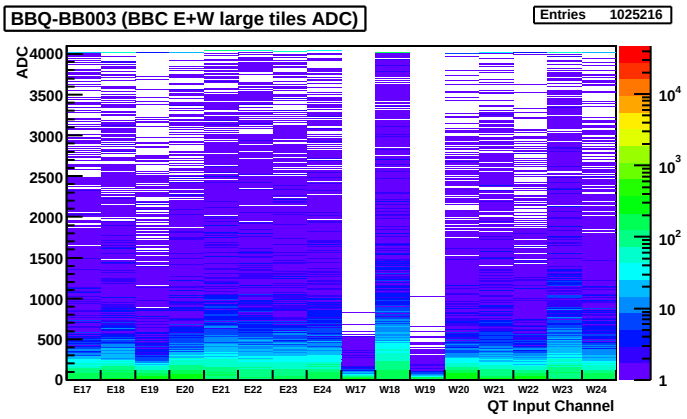

L1-TF201
Entries 384456
Threshold bits
1
0
470
470
450
461
492
394
63606
63606
63626
63615
63584
63682
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4
10^3

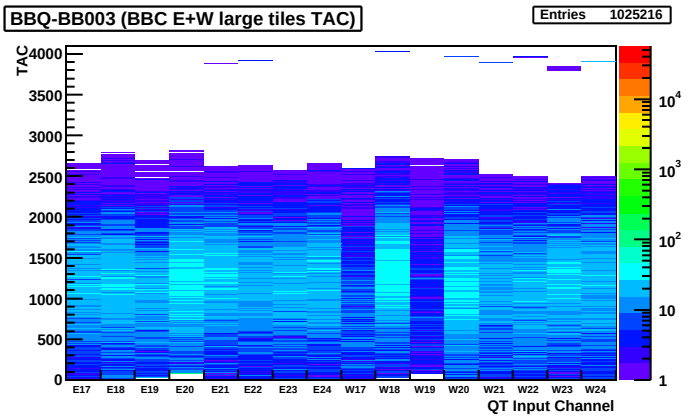

BBQ-BB001 (BBC east small tiles ADC)
Entries 1025216
ADC
QT Input Channel

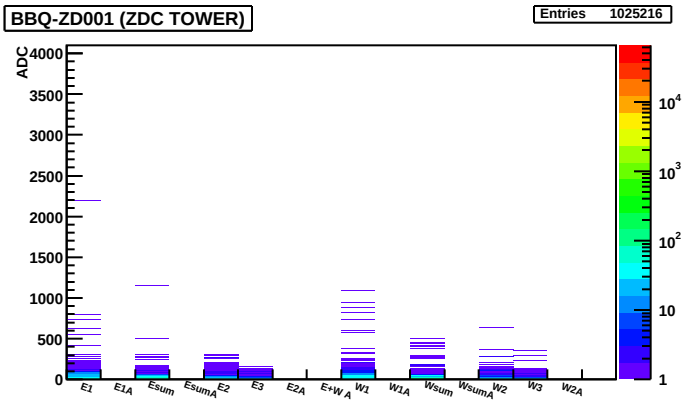

BBQ-BB001 (BBC east small tiles TAC)
Entries 1025216
TAC
QT Input Channel

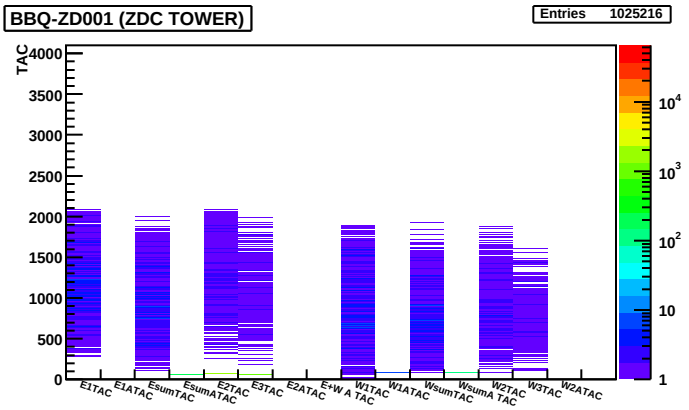

BBQ-BB002 (BBC west small tiles ADC)
Entries 1025216
ADC
QT Input Channel

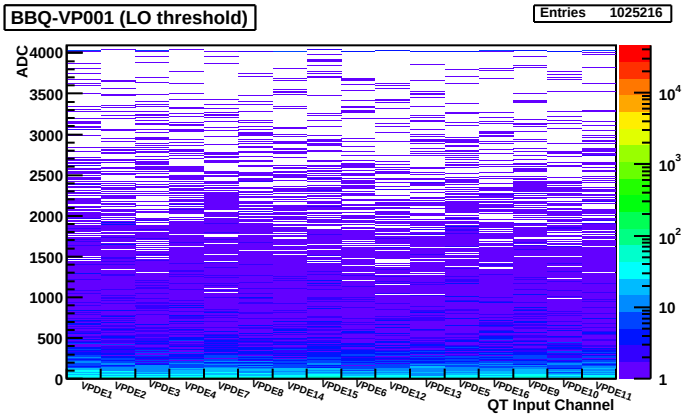

BBQ-BB002 (BBC west small tiles TAC)
Entries 1025216
TAC
QT Input Channel

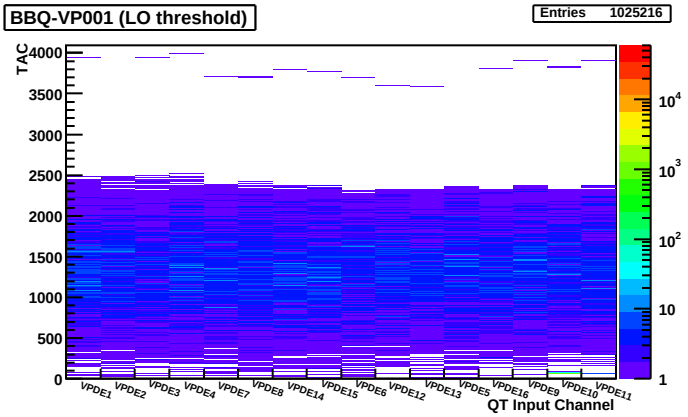

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1025216
ADC
QT Input Channel

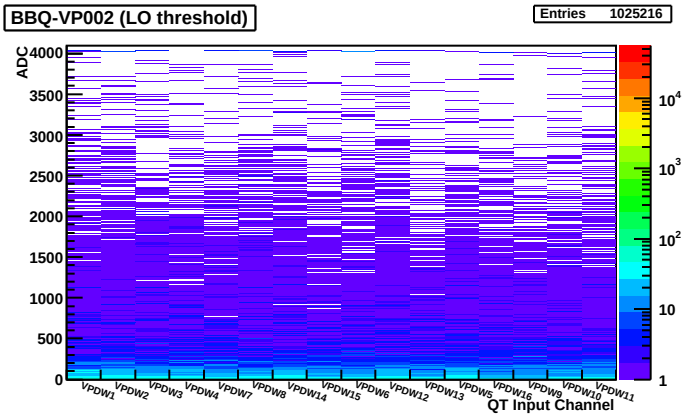

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1025216
TAC
QT Input Channel

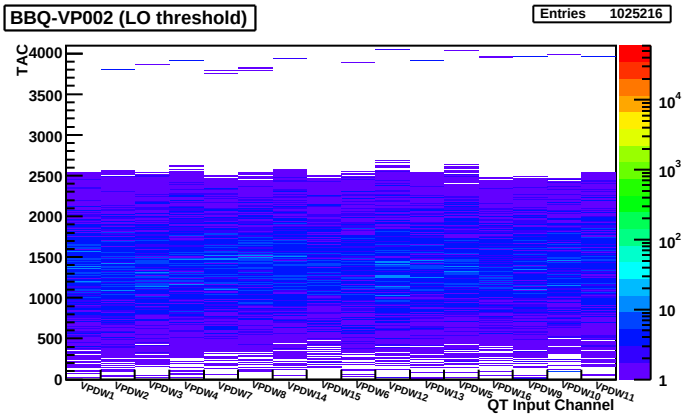

BBQ-ZD001 (ZDC TOWER)
Entries 1025216
ADC

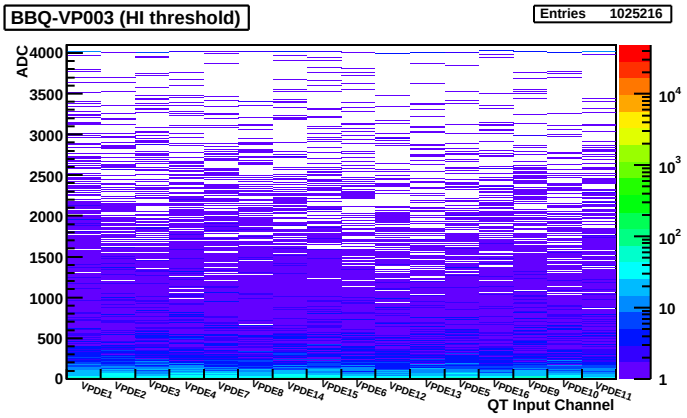

BBQ-ZD001 (ZDC TOWER)
Entries 1025216
TAC

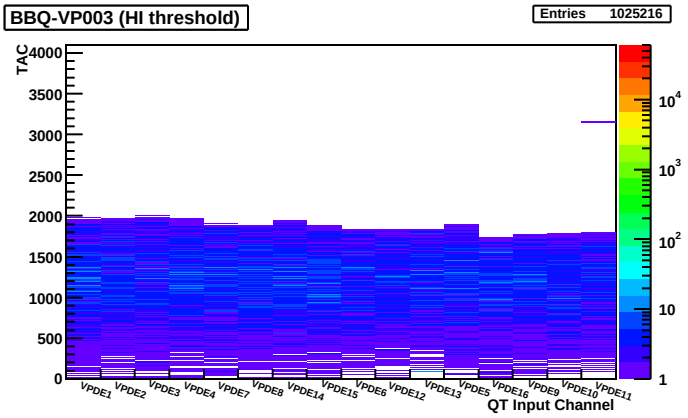

BBQ-VP001 (LO threshold)
Entries 1025216
ADC
QT Input Channel

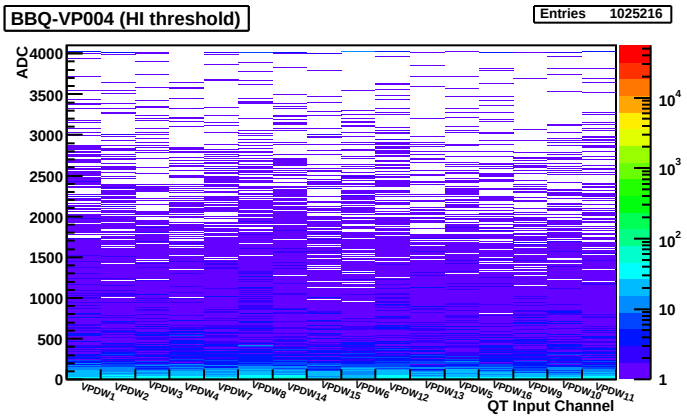

BBQ-VP001 (LO threshold)
Entries 1025216
TAC
QT Input Channel

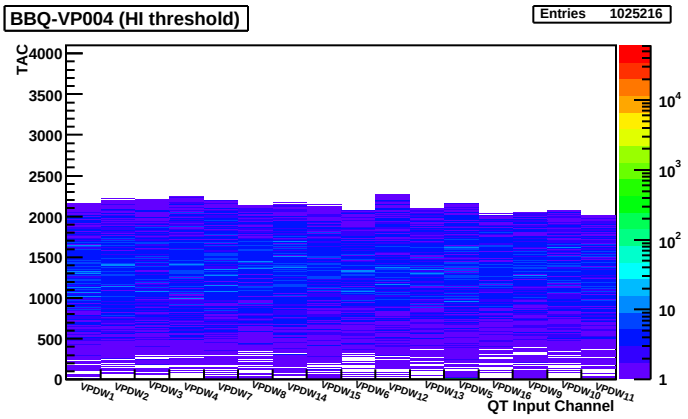

BBQ-VP002 (LO threshold)
Entries 1025216
ADC
QT Input Channel

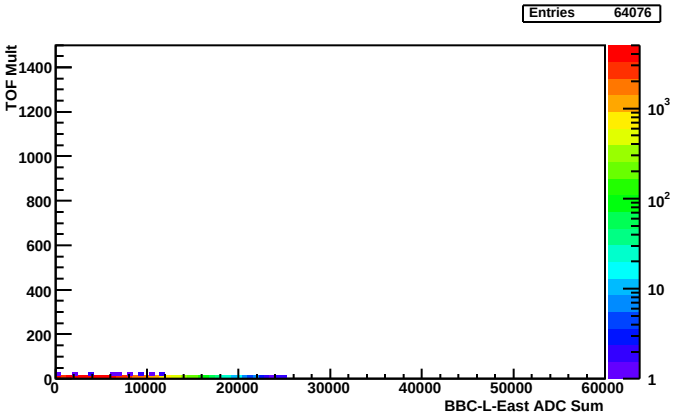

BBQ-VP002 (LO threshold)
Entries 1025216
TAC
QT Input Channel

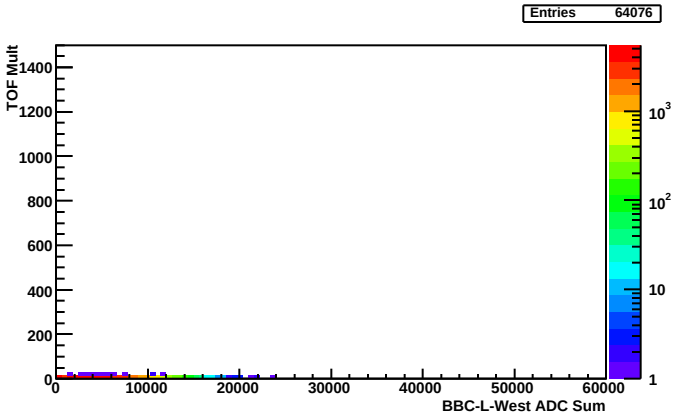

BBQ-VP003 (HI threshold)
Entries 1025216
ADC
QT Input Channel

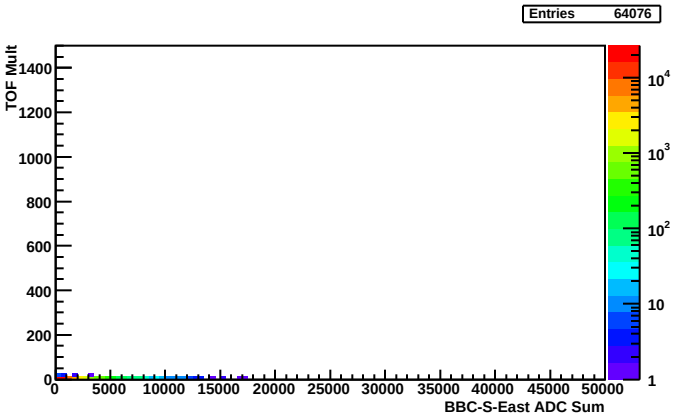

BBQ-VP003 (HI threshold)
Entries 1025216
TAC
QT Input Channel

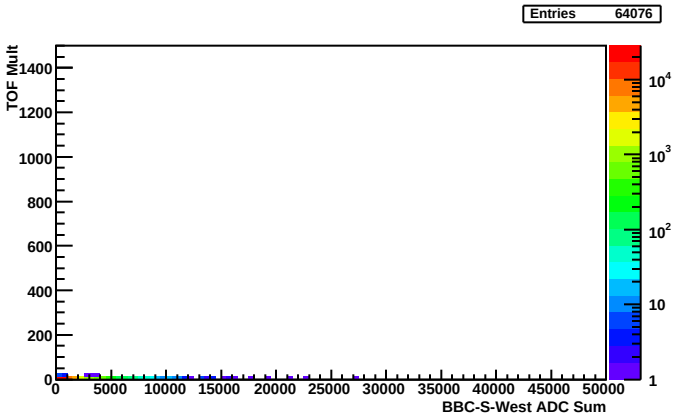

BBQ-VP004 (HI threshold)
Entries 1025216
ADC
QT Input Channel

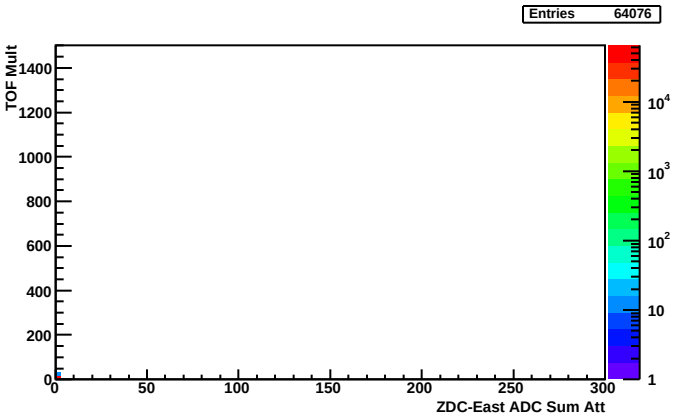

BBQ-VP004 (HI threshold)
Entries 1025216
TAC
QT Input Channel

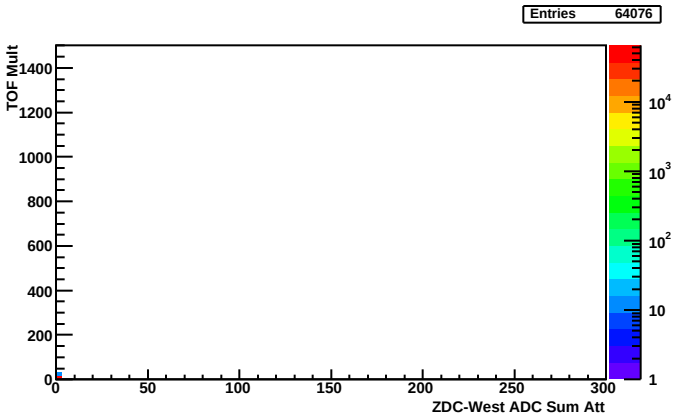

Entries 64076
TOF Mult
BBC-L-East ADC Sum

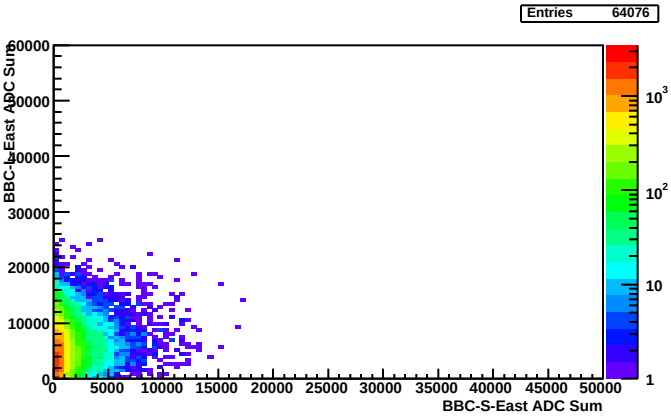

Entries 64076
TOF Mult
BBC-L-West ADC Sum

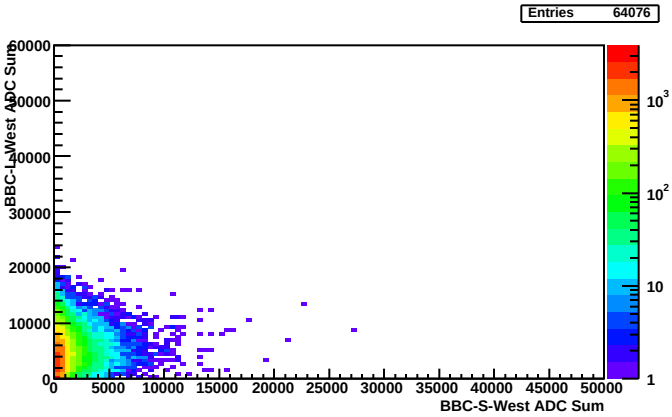

Entries 64076
TOF Mult
BBC-S-East ADC Sum

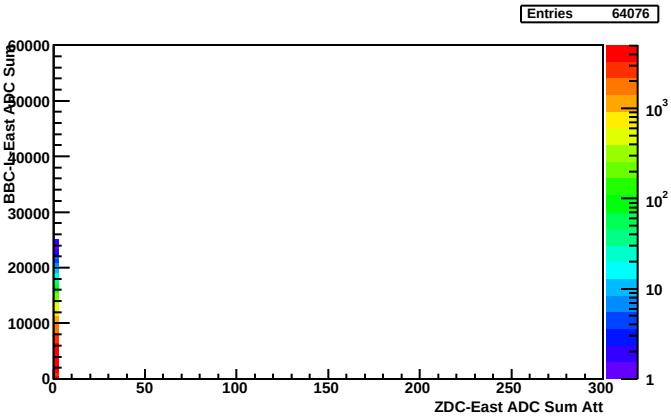

Entries 64076
TOF Mult
BBC-S-West ADC Sum

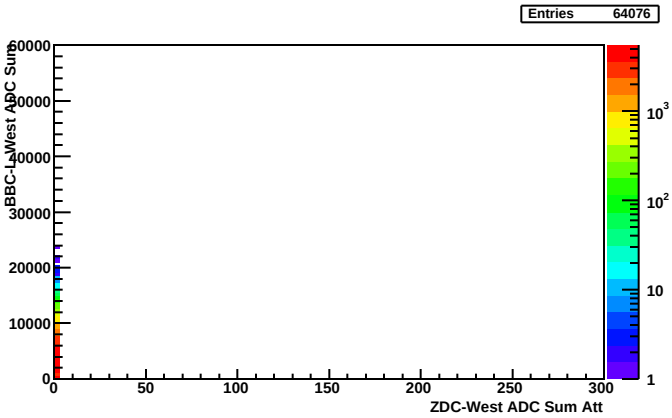

Entries 64076
TOF Mult
ZDC-East ADC Sum Att

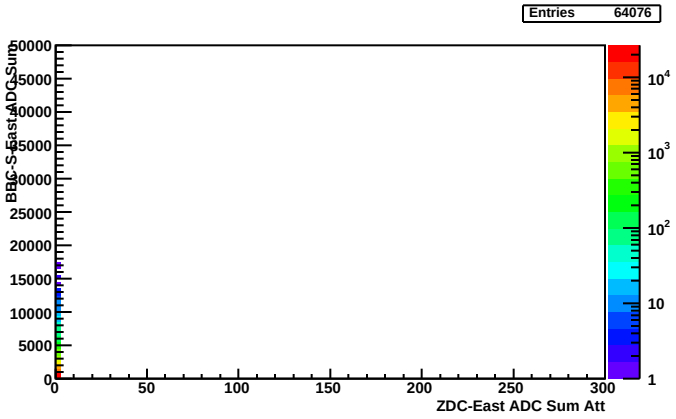

Entries 64076
TOF Mult
ZDC-West ADC Sum Att

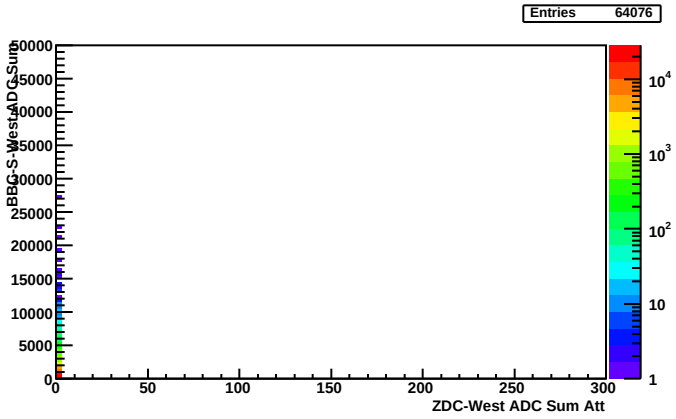

Entries 64076
BBC-L-East ADC Sum
BBC-S-East ADC Sum

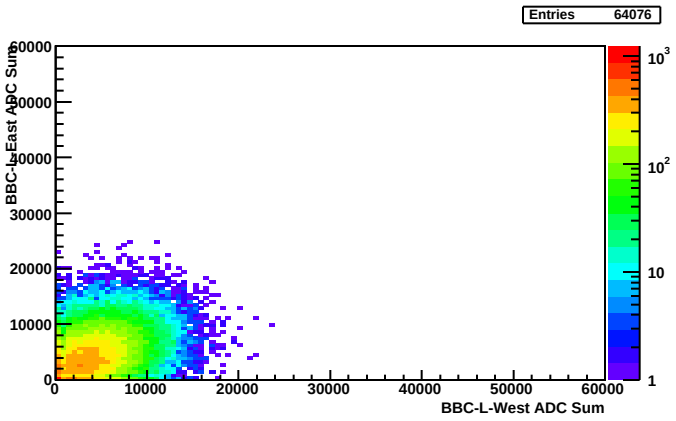

Entries 64076
BBC-L-West ADC Sum
BBC-S-West ADC Sum

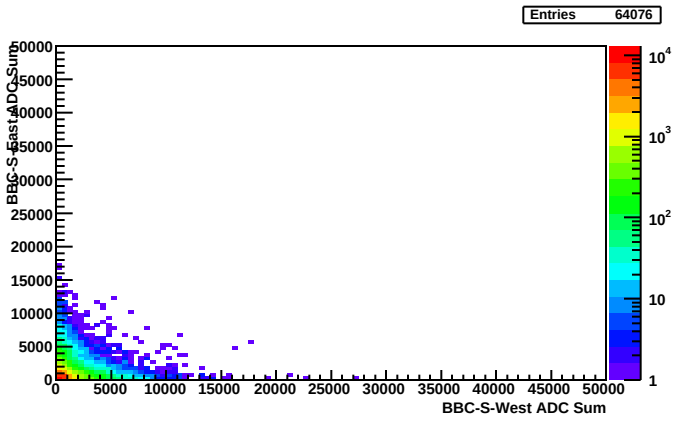

Entries 64076
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

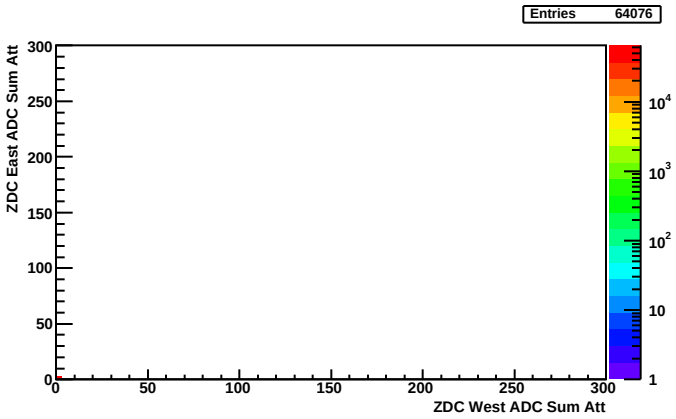

Entries 64076
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

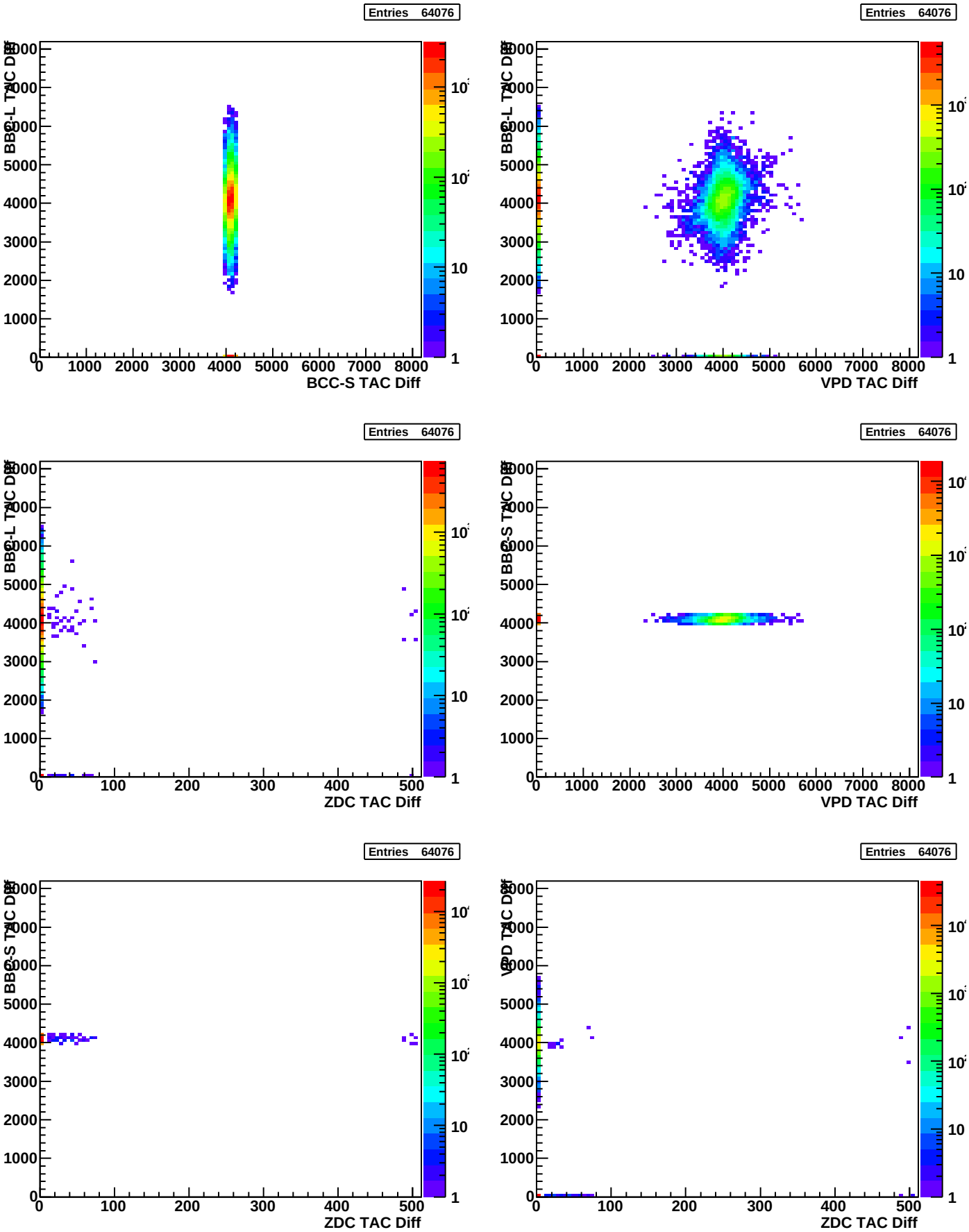

Entries 64076
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

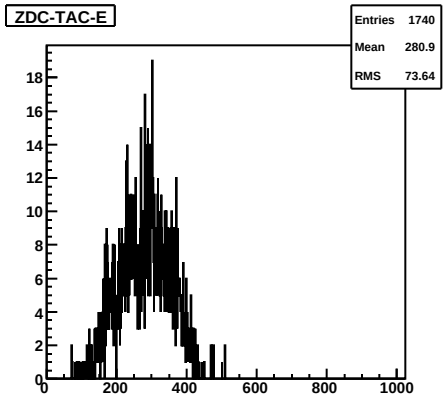

Entries 64076
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

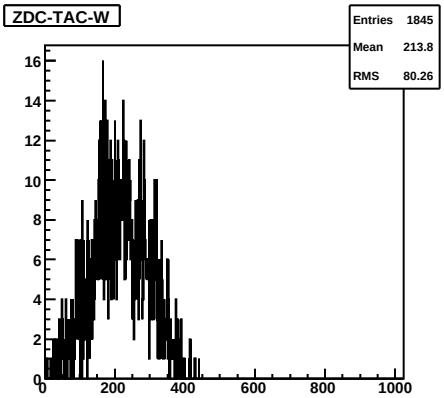

Entries 64076
BBC-L-East ADC Sum
BBC-L-West ADC Sum

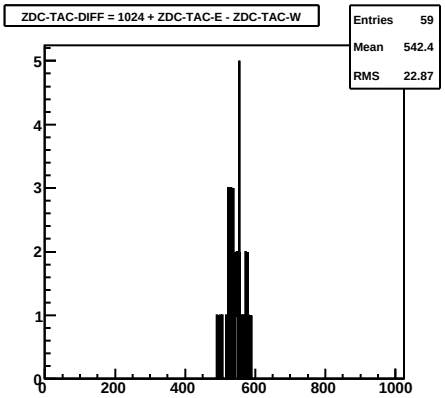

Entries 64076
BBC-S-East ADC Sum
BBC-S-West ADC Sum

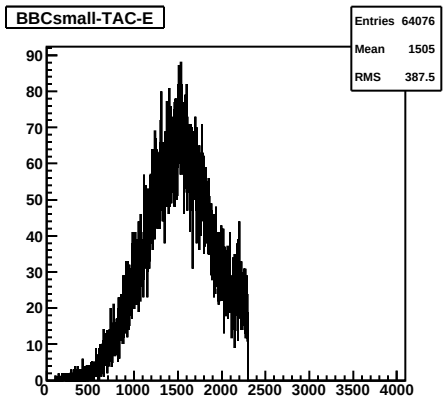

Entries 64076
ZDC East ADC Sum Att
ZDC West ADC Sum Att

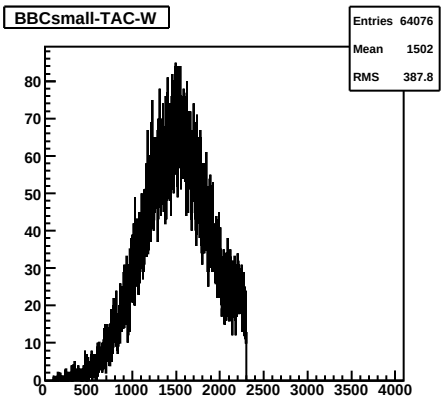

Entries 64076
BBC-L TAC Diff
BCC-S TAC Diff
Entries 64076
BBC-L TAC Diff
VPD TAC Diff
Entries 64076
BBC-L TAC Diff
ZDC TAC Diff
Entries 64076
BBC-S TAC Diff
VPD TAC Diff
Entries 64076
BBC-S TAC Diff
ZDC TAC Diff
Entries 64076
VPD TAC Diff
ZDC TAC Diff

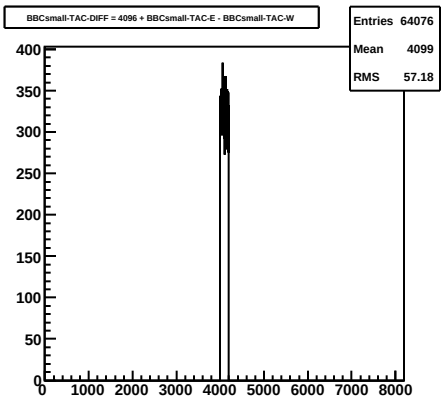

ZDC-TAC-E
Entries 1740
Mean 280.9
RMS 73.64

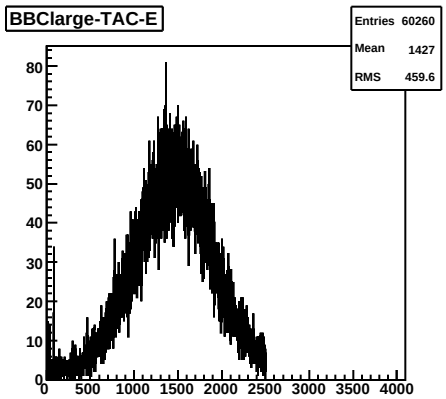

ZDC-TAC-W
Entries 1845
Mean 213.8
RMS 80.26

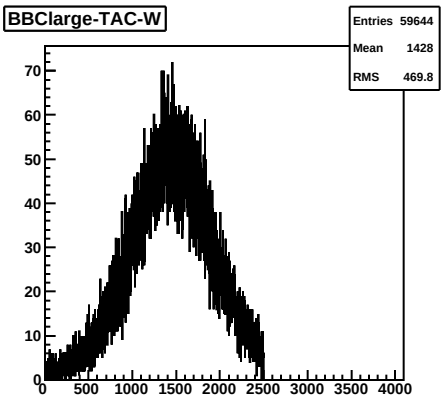

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 59
Mean 542.4
RMS 22.87

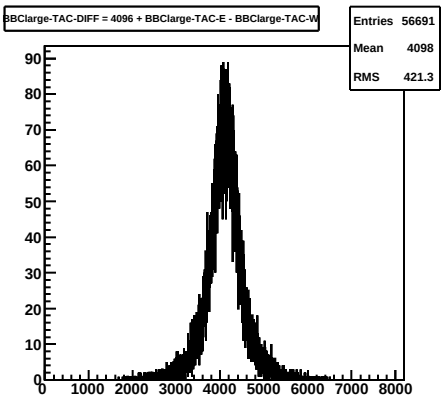

BBCsmall-TAC-E
Entries 64076
Mean 1505
RMS 387.5

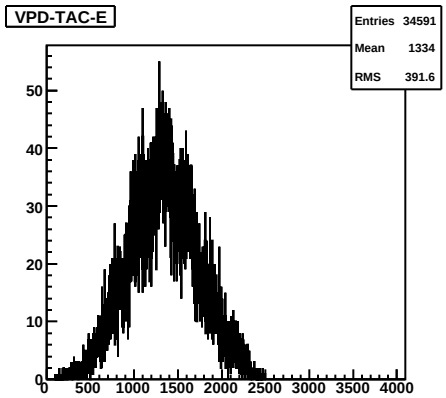

BBCsmall-TAC-W
Entries 64076
Mean 1502
RMS 387.8

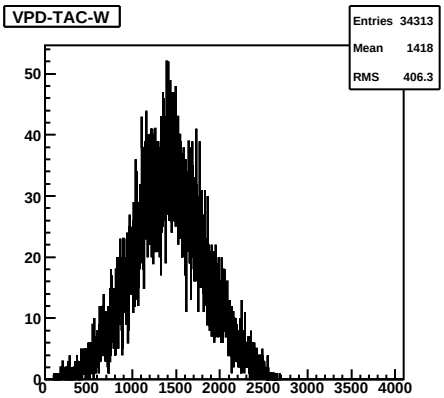

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 64076
Mean 4099
RMS 57.18

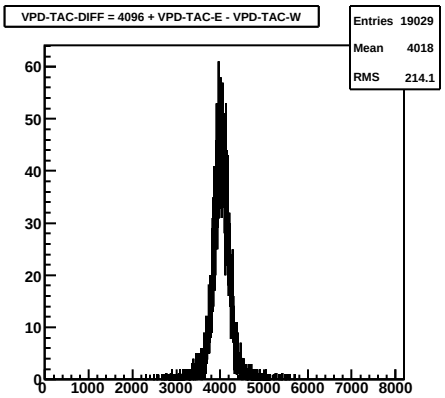

BBClarge-TAC-E
Entries 60260
Mean 1427
RMS 459.6

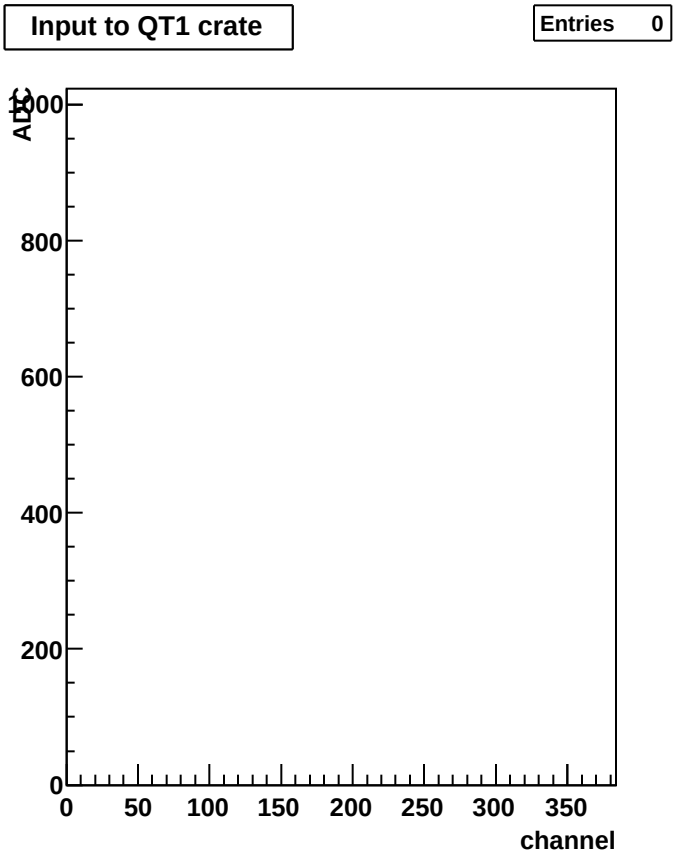

BBClarge-TAC-W
Entries 59644
Mean 1428
RMS 469.8

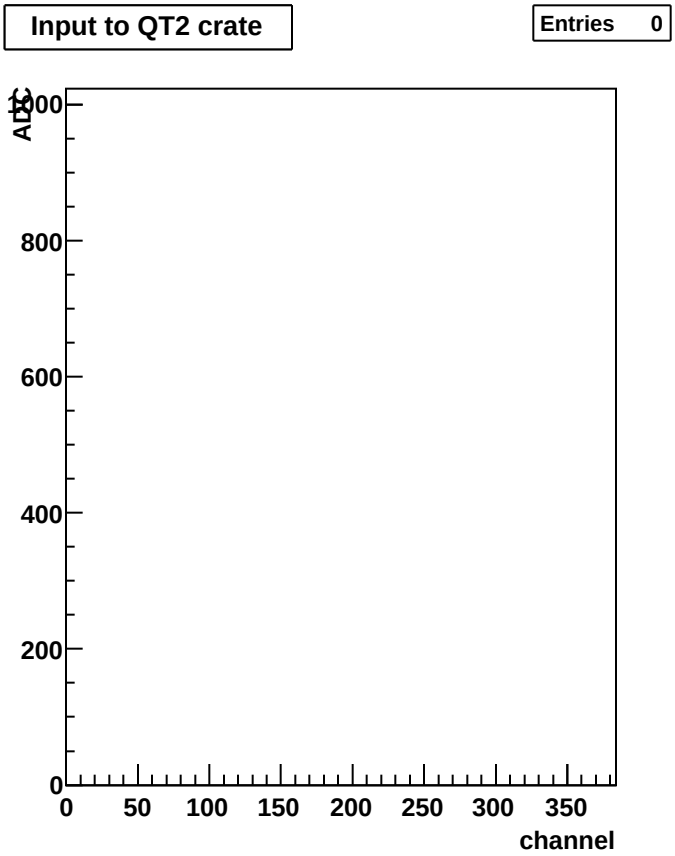

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 56691
Mean 4098
RMS 421.3

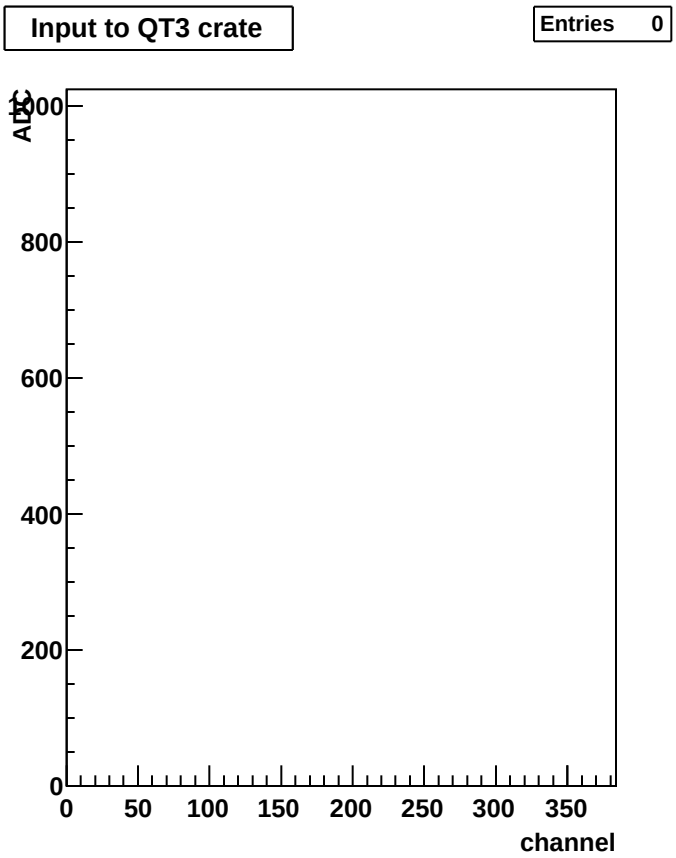

VPD-TAC-E
Entries 34591
Mean 1334
RMS 391.6

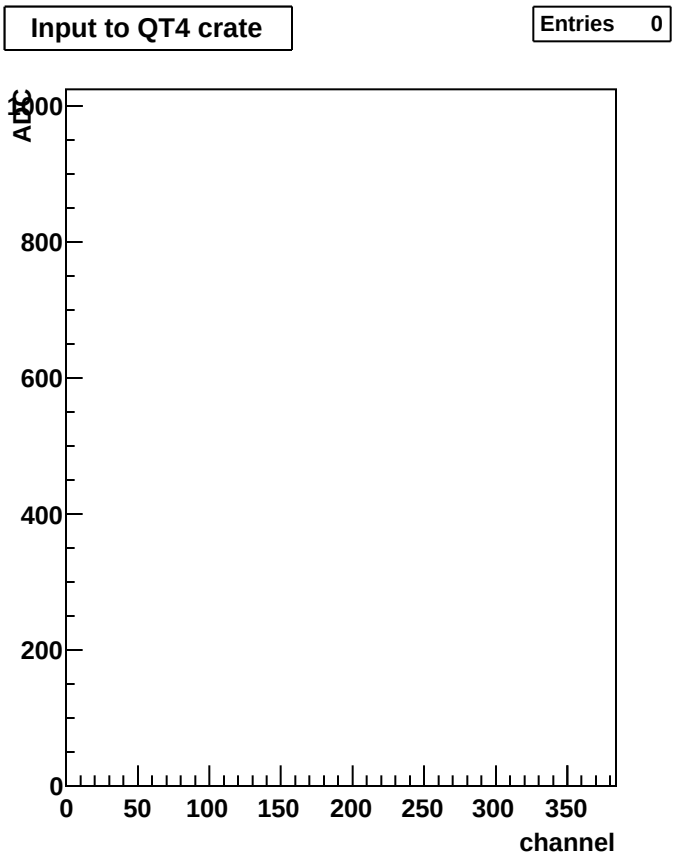

VPD-TAC-W
Entries 34313
Mean 1418
RMS 406.3

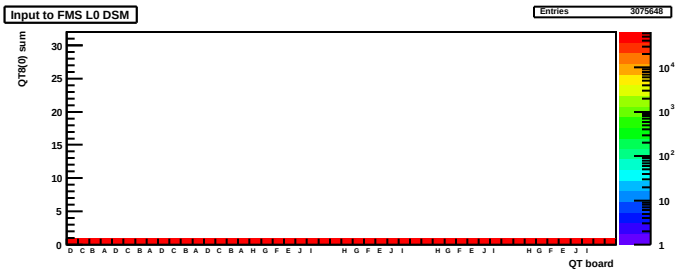

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 19029
Mean 4018
RMS 214.1

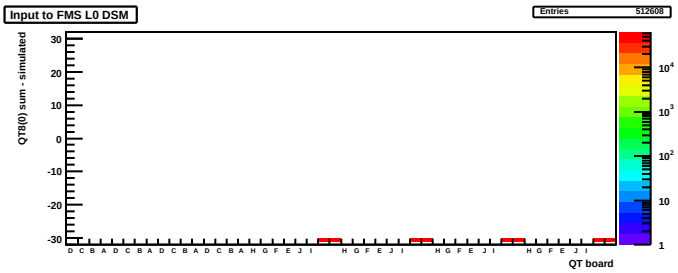

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

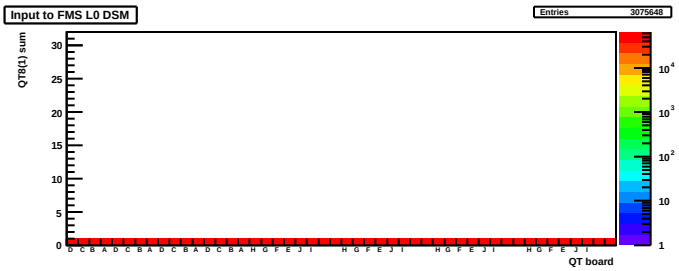

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

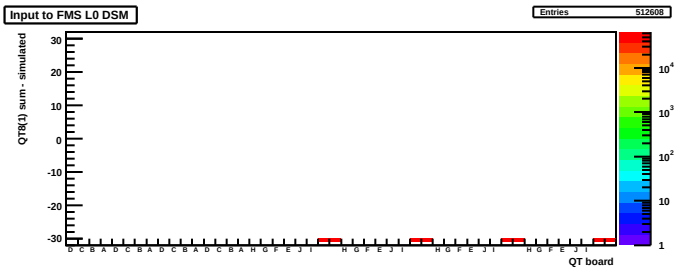

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

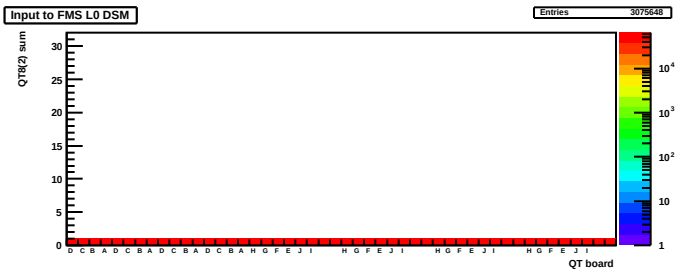

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

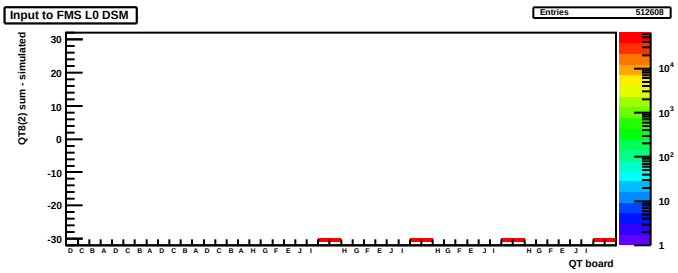

Input to FMS L0 DSM
Entries 3075648
QT8(0) sum
QT board

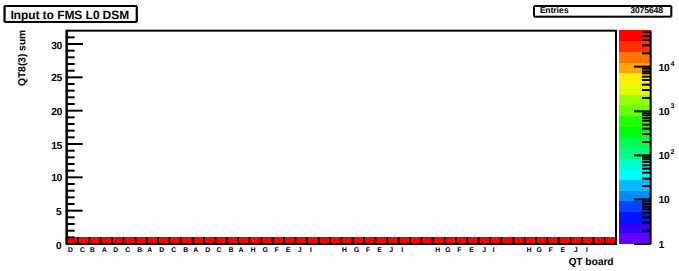

Input to FMS L0 DSM
Entries 512608
QT8(0) sum - simulated
QT board

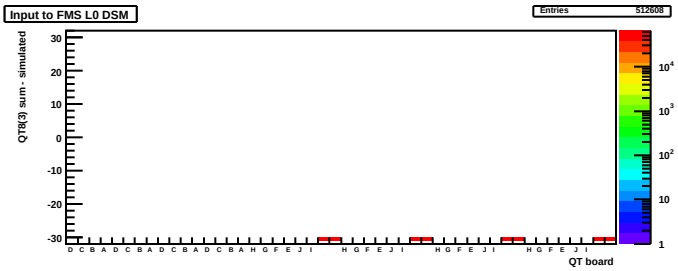

Input to FMS L0 DSM
Entries 3075648
QT8(1) sum
QT board

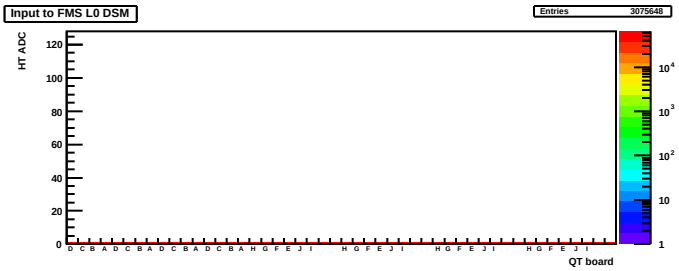

Input to FMS L0 DSM
Entries 512608
QT8(1) sum - simulated
QT board

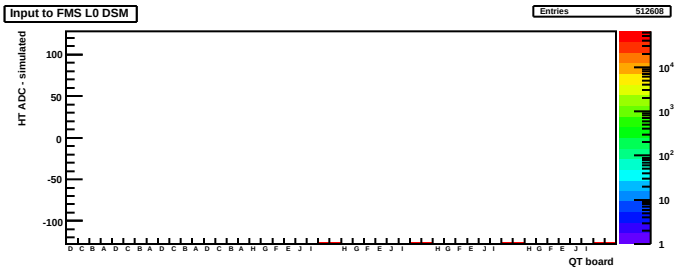

Input to FMS L0 DSM
Entries 3075648
QT8(2) sum
QT board

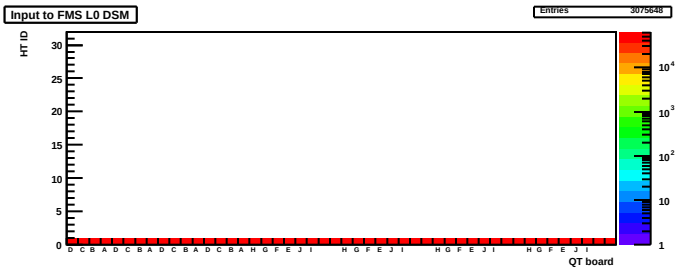

Input to FMS L0 DSM
Entries 512608
QT8(2) sum - simulated
QT board

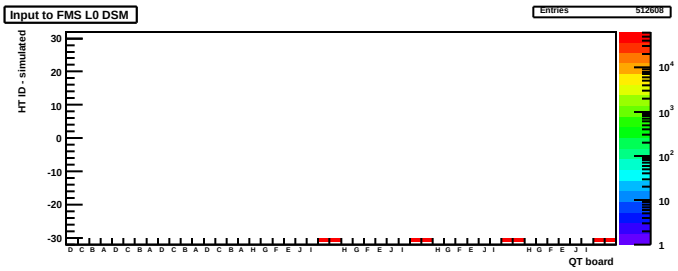

Input to FMS L0 DSM
Entries 3075648
QT8(3) sum
QT board

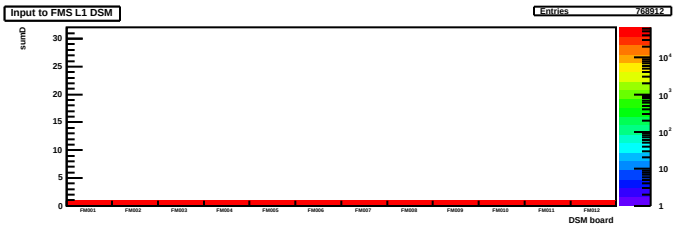

Input to FMS L0 DSM
Entries 512608
QT8(3) sum - simulated
QT board

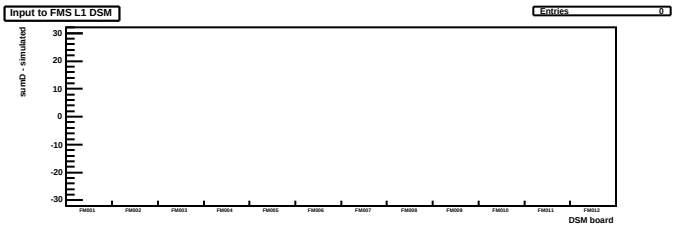

Input to FMS L0 DSM
Entries 3075648
HT ADC
QT board

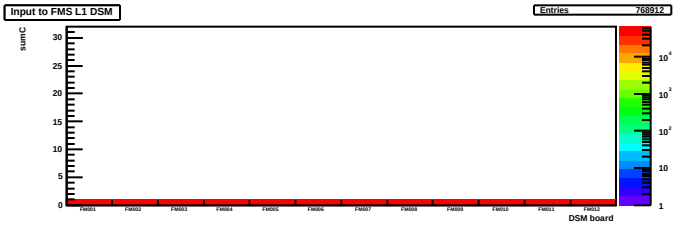

Input to FMS L0 DSM
Entries 512608
HT ADC - simulated
QT board

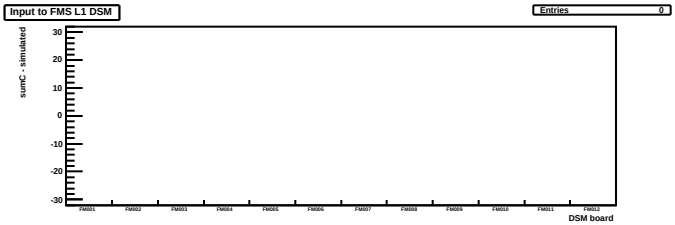

Input to FMS L0 DSM
Entries 3075648
HT ID
QT board

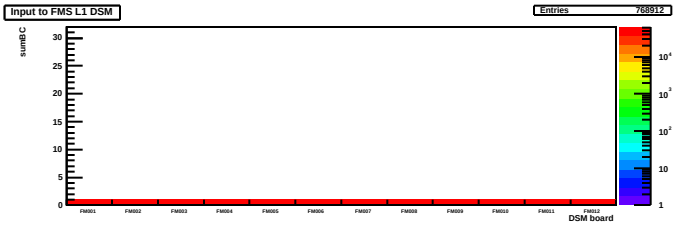

Input to FMS L0 DSM
Entries 512608
HT ID - simulated
QT board

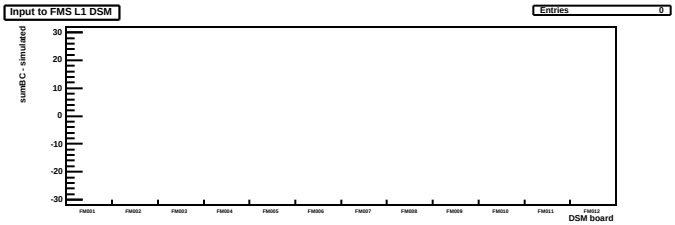

Input to FMS L1 DSM
Entries 768912
sumD
DSM board

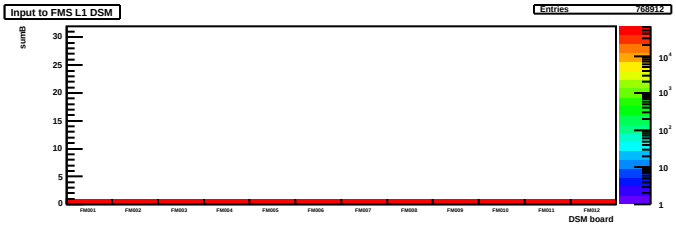

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

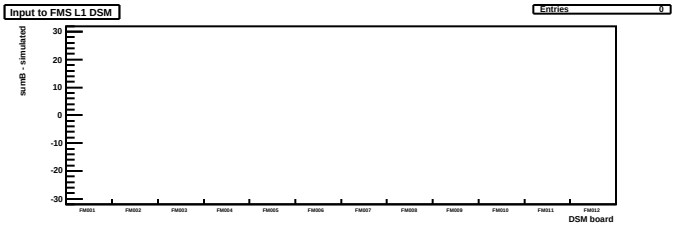

Input to FMS L1 DSM
Entries 768912
sumC
DSM board

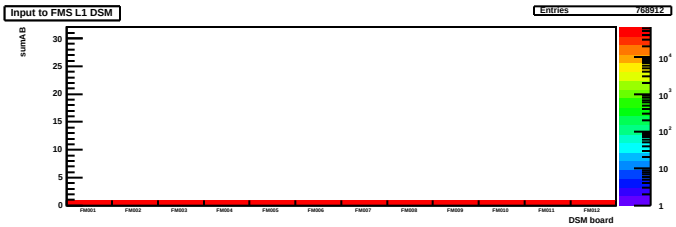

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

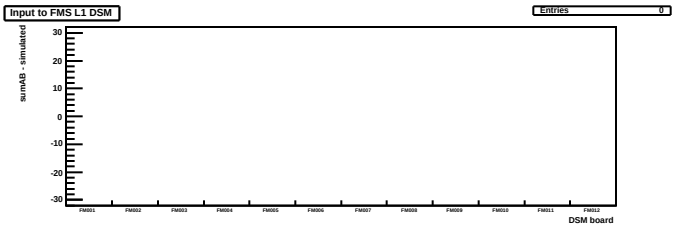

Input to FMS L1 DSM
Entries 768912
sumBC
DSM board

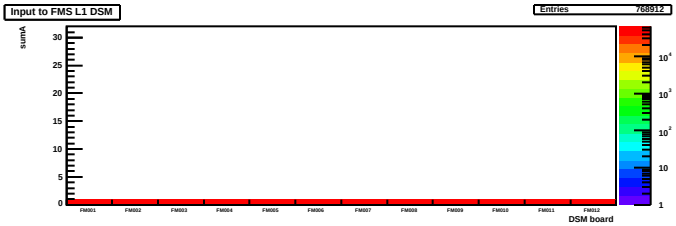

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

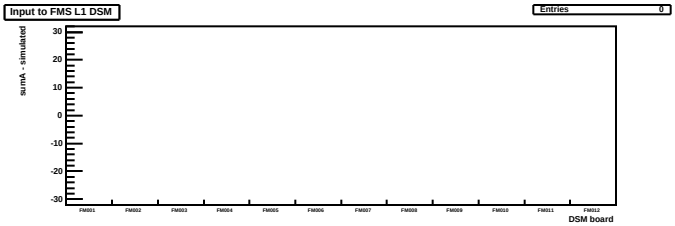

Input to FMS L1 DSM
Entries 768912
sumB
DSM board

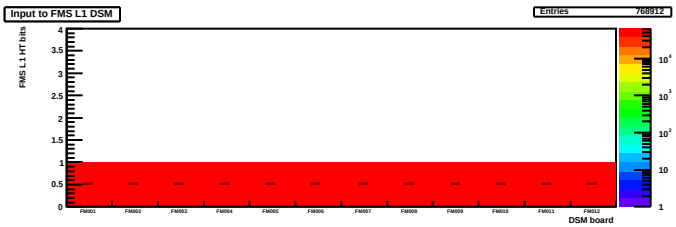

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

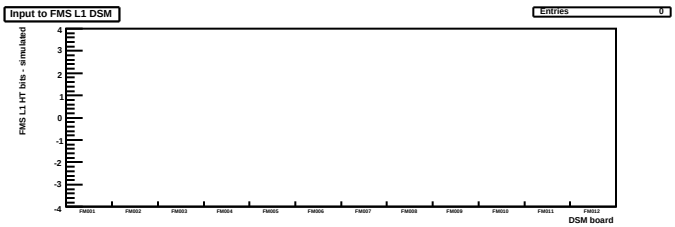

Input to FMS L1 DSM
Entries 768912
sumAB
DSM board

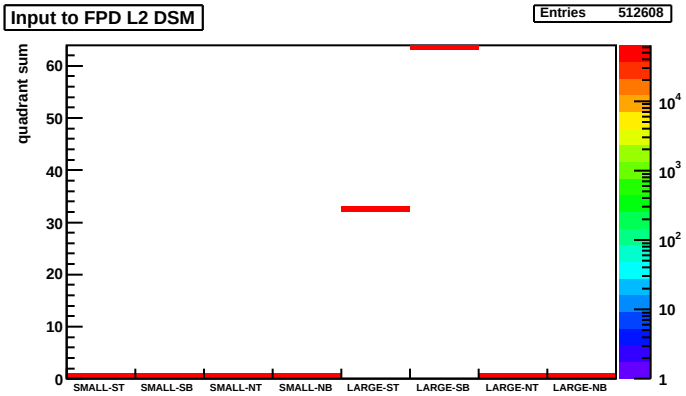

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

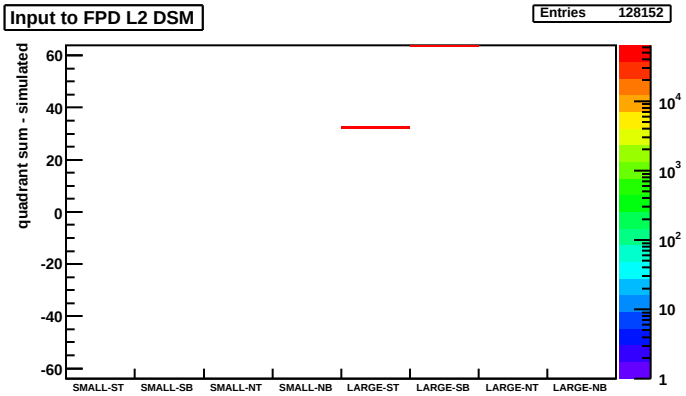

Input to FMS L1 DSM
Entries 768912
sumA
DSM board

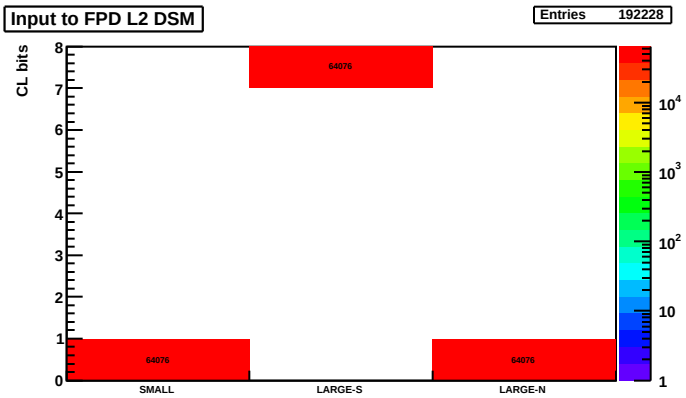

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

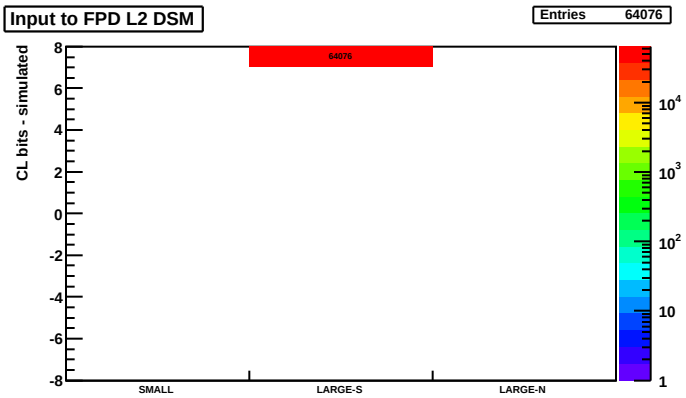

Input to FMS L1 DSM
Entries 768912
FMS L1 HT bits
DSM board

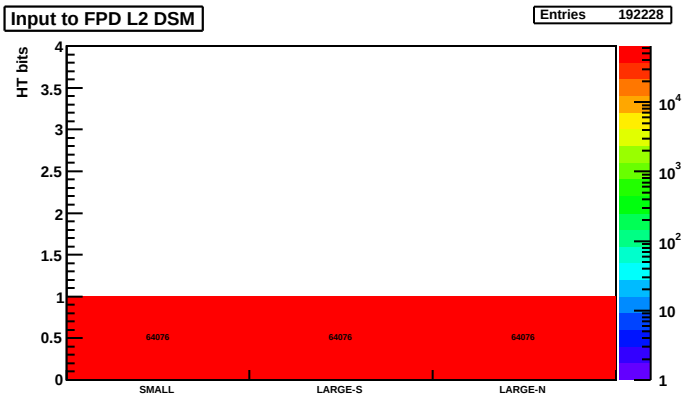

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

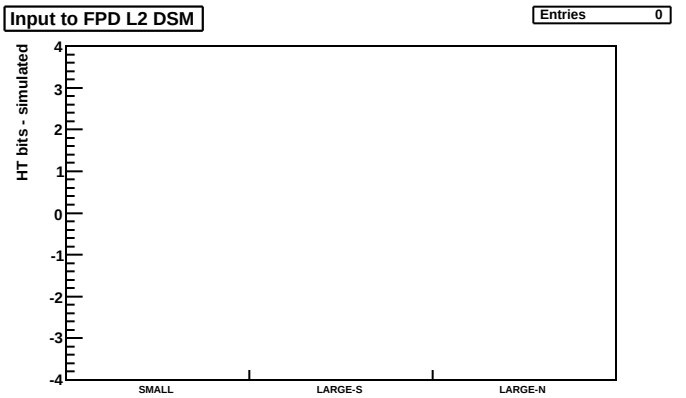

Input to FPD L2 DSM
Entries 512608
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

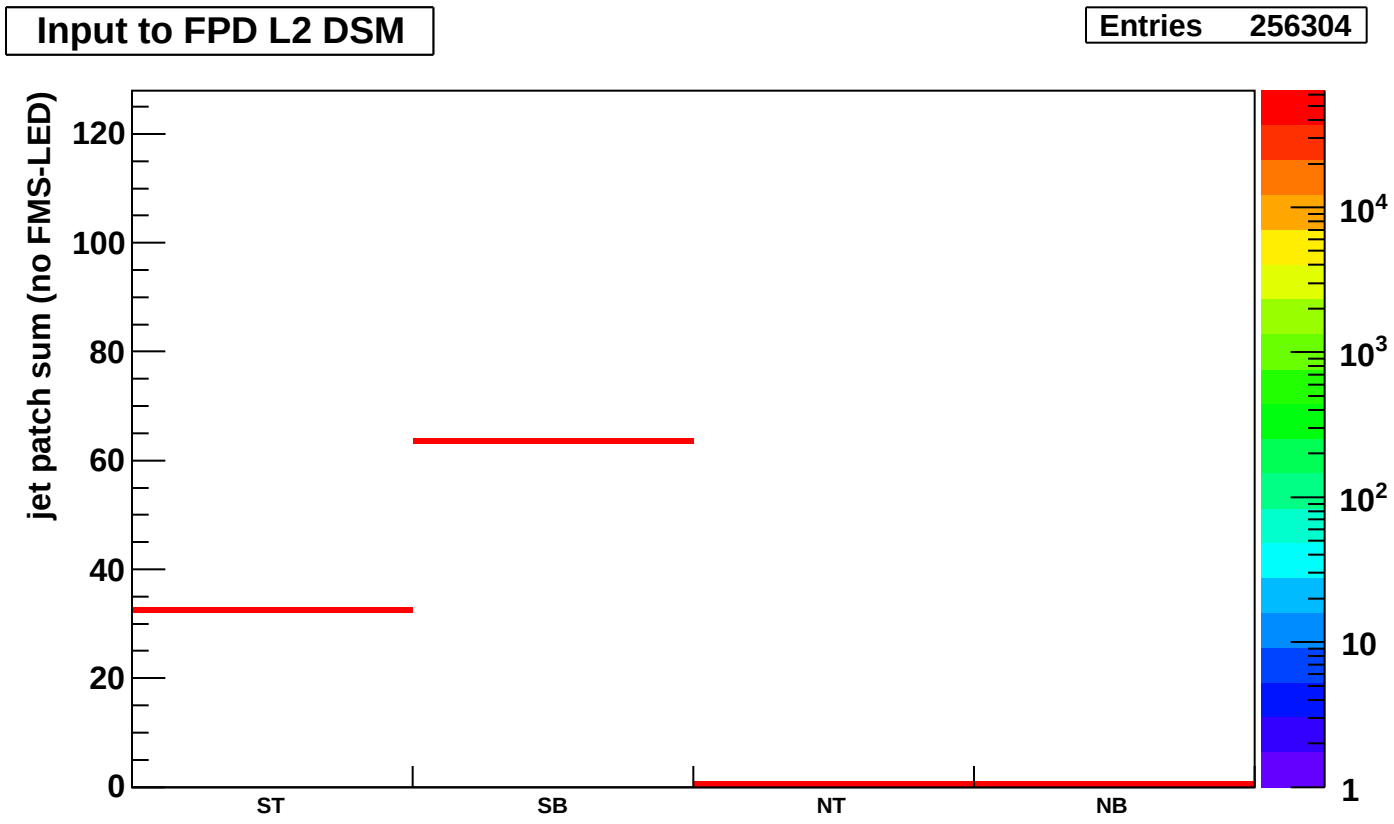

Input to FPD L2 DSM
Entries 128152
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

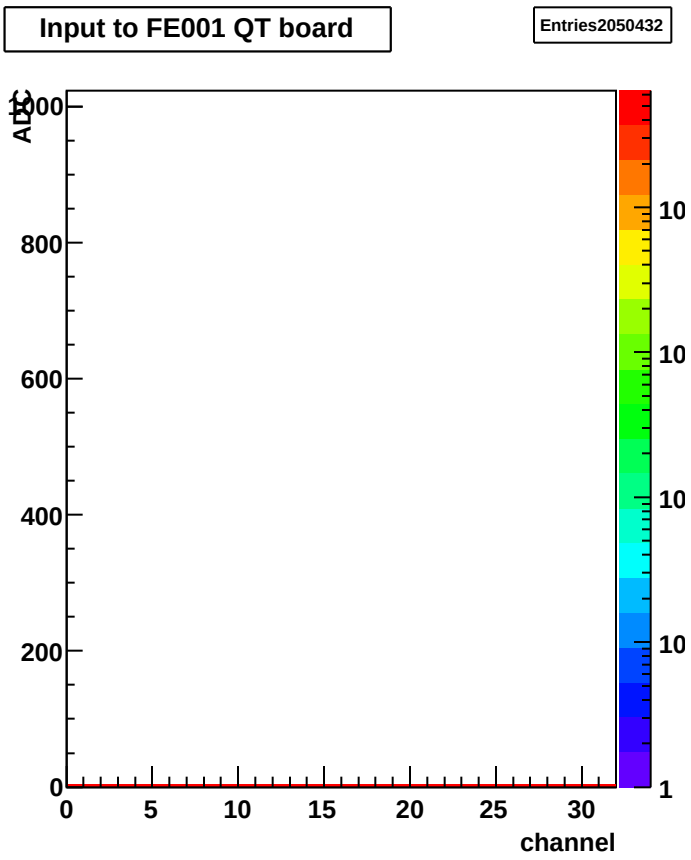

Input to FPD L2 DSM
Entries 192228
CL bits
64076
64076
64076
SMALL
LARGE-S
LARGE-N

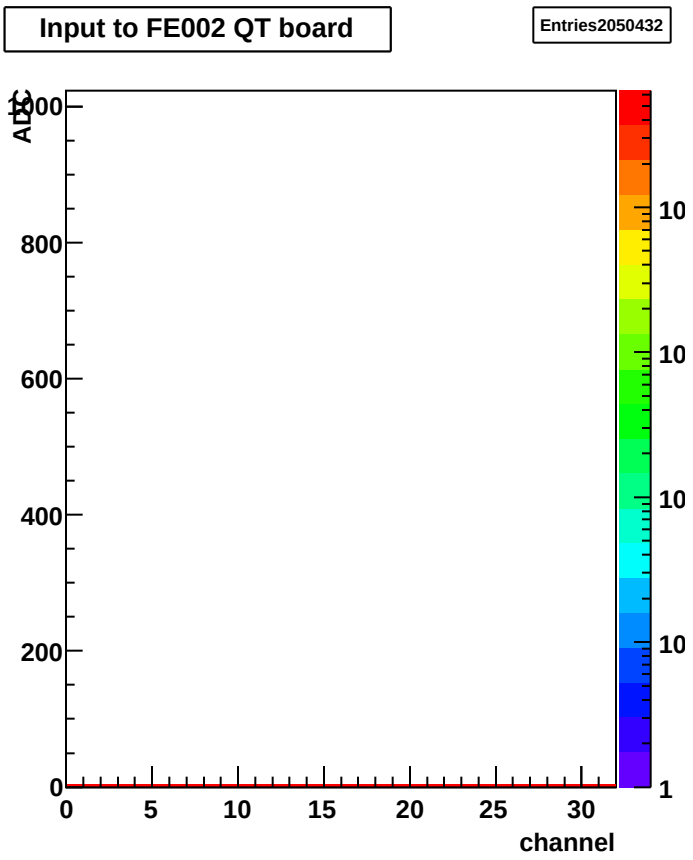

Input to FPD L2 DSM
Entries 64076
CL bits - simulated
64076
SMALL
LARGE-S
LARGE-N

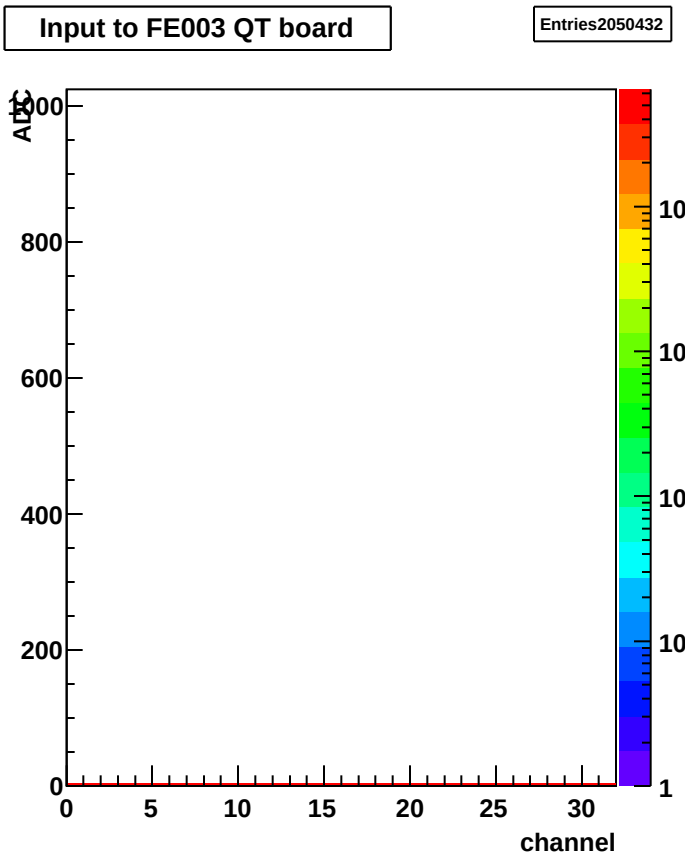

Input to FPD L2 DSM
Entries 192228
HT bits
64076
64076
64076
SMALL
LARGE-S
LARGE-N

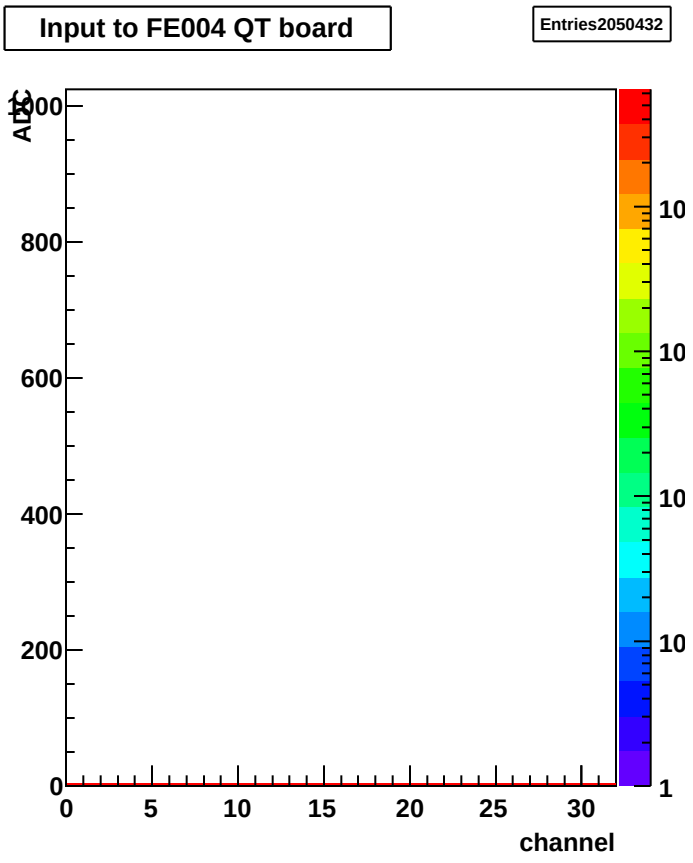

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

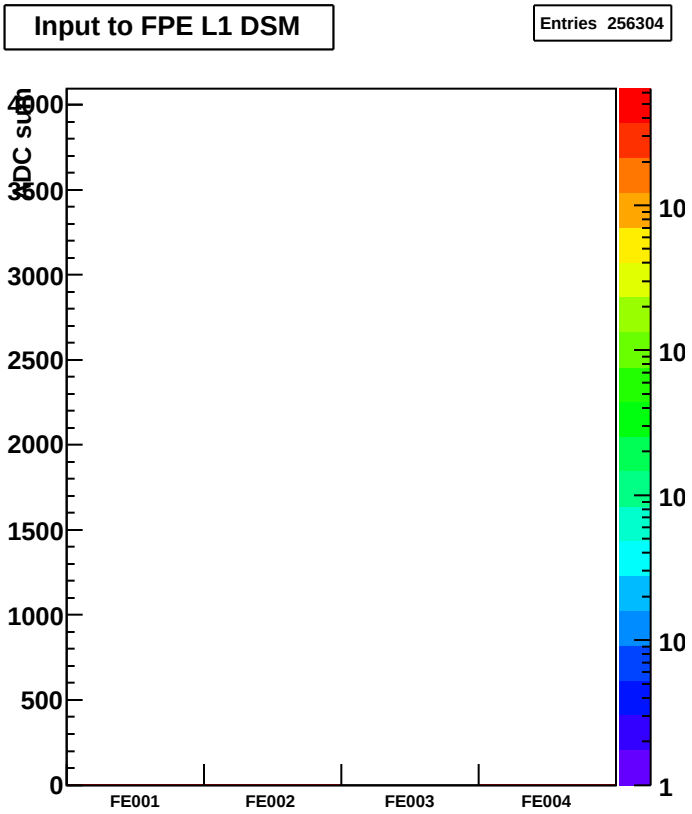

Input to FPD L2 DSM
Entries 256304
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

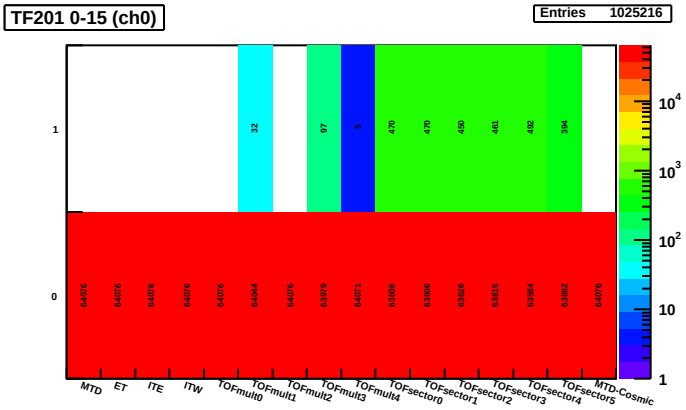

Input to FE001 QT board
Entries2050432
ADC
channel

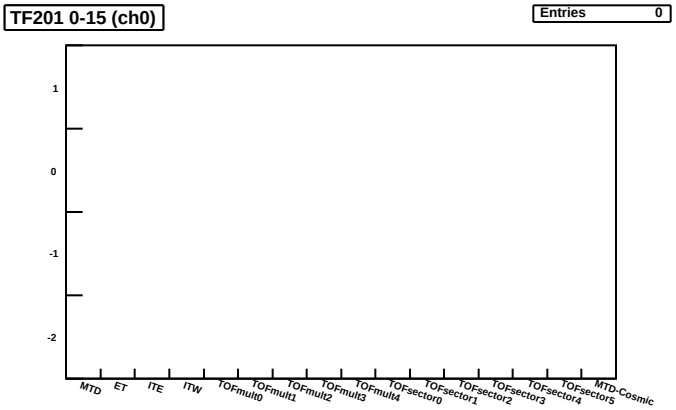

Input to FE002 QT board
Entries2050432
ADC
channel

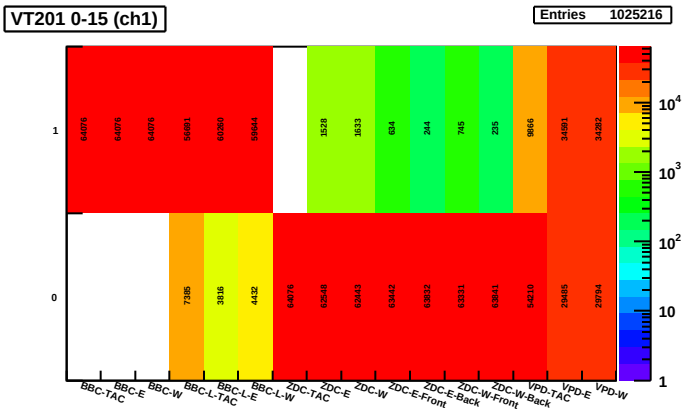

Input to FE003 QT board
Entries2050432
ADC
channel

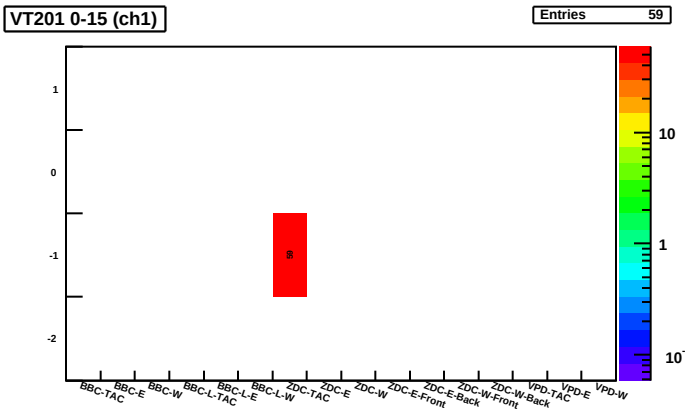

Input to FE004 QT board
Entries2050432
ADC
channel

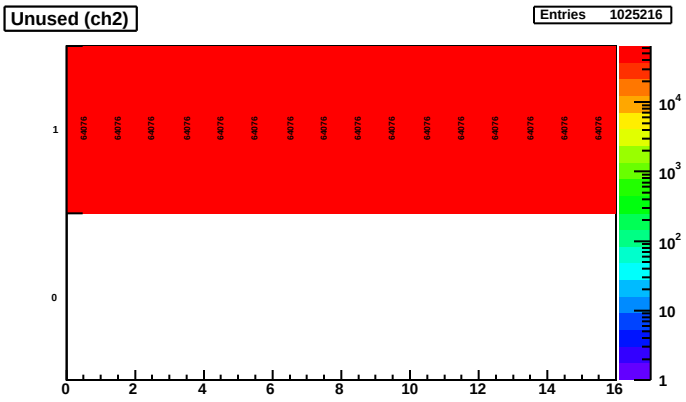

Input to FPE L1 DSM
Entries 256304
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

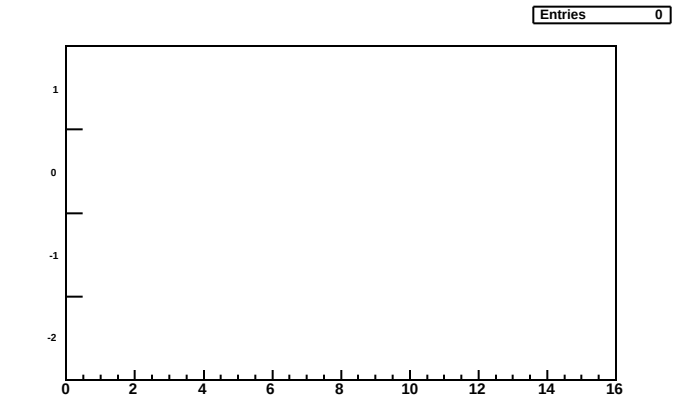

TF201 0-15 (ch0)
Entries 1025216
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

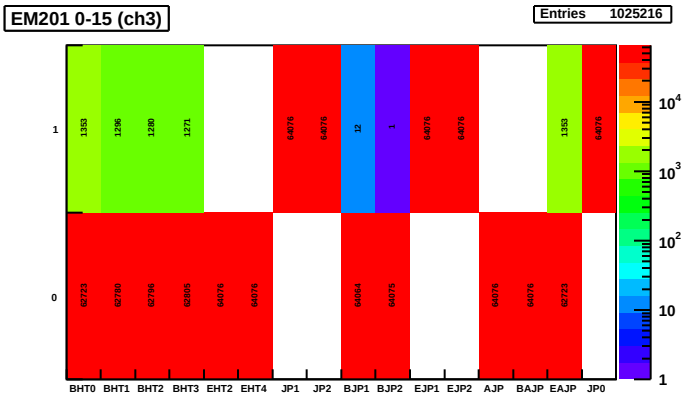

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

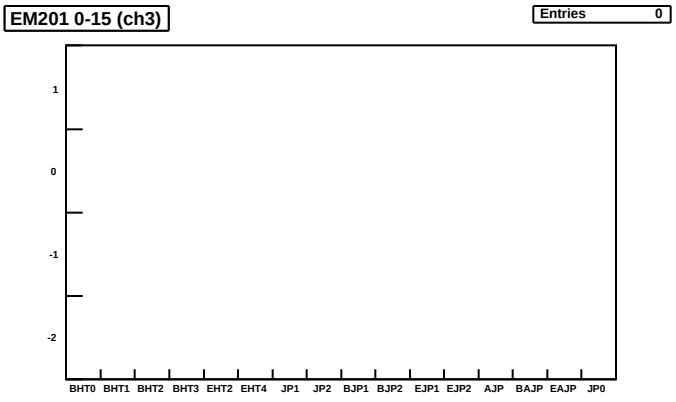

VT201 0-15 (ch1)
Entries 1025216
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 59
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

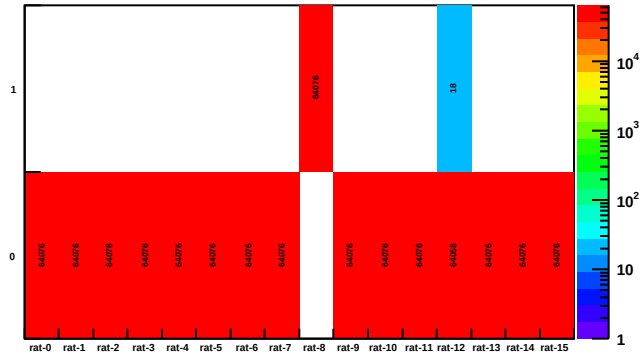

Unused (ch2)
Entries 1025216

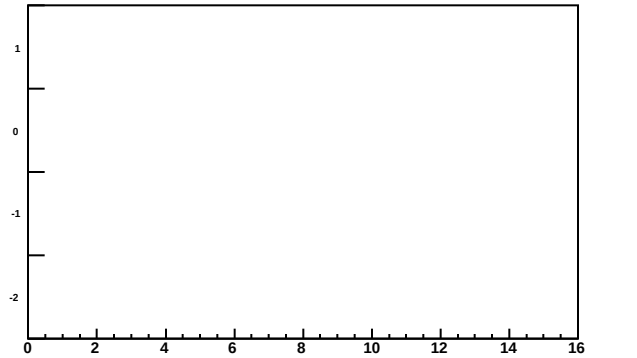

Entries 0


EM201 0-15 (ch3)
Entries 1025216
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

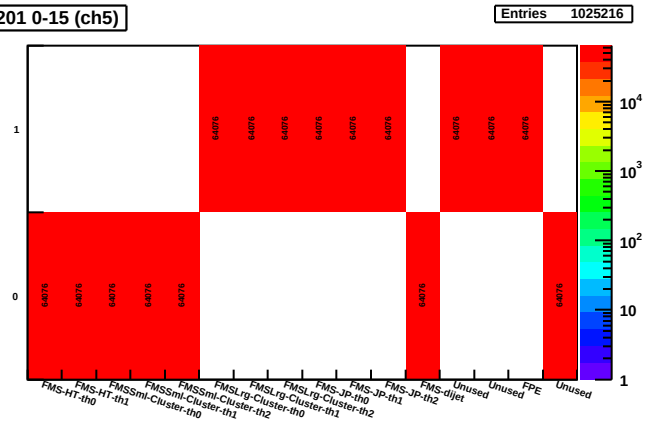

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

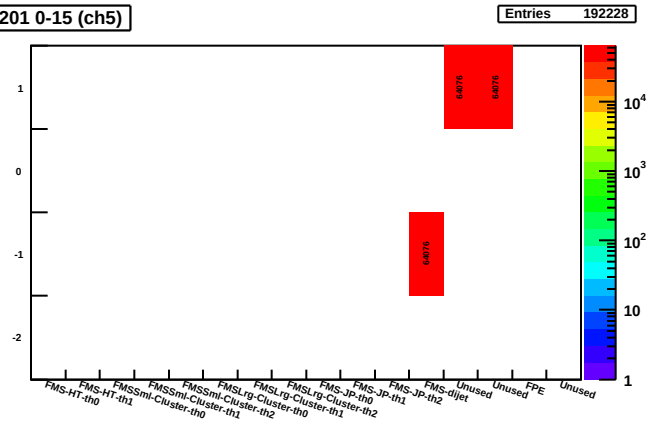




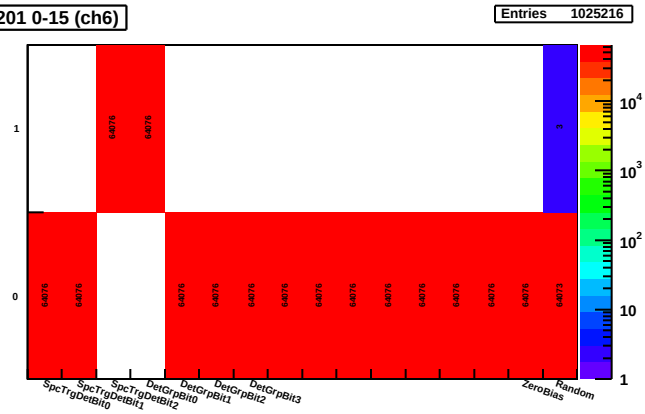
FP201 0-15 (ch5)

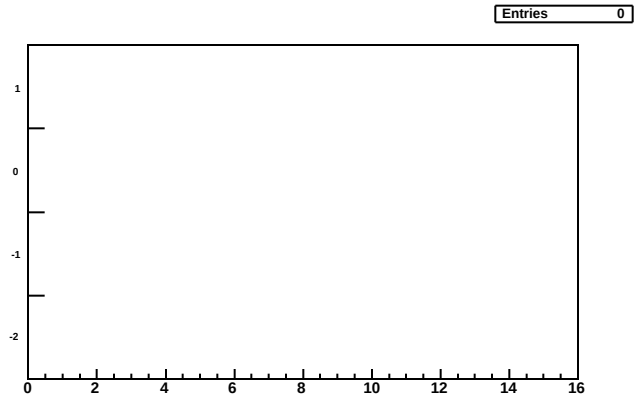
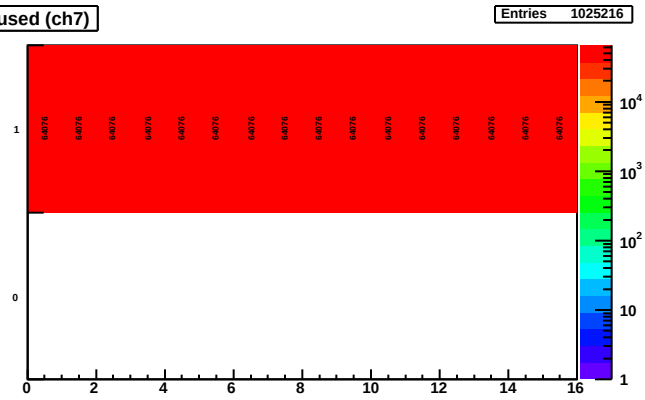
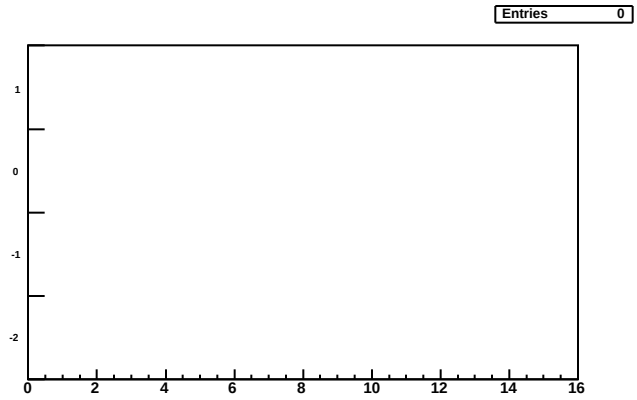


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)