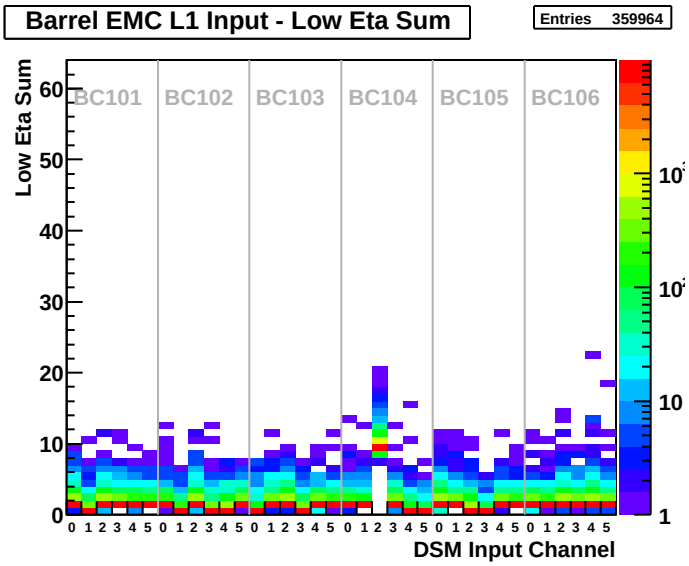
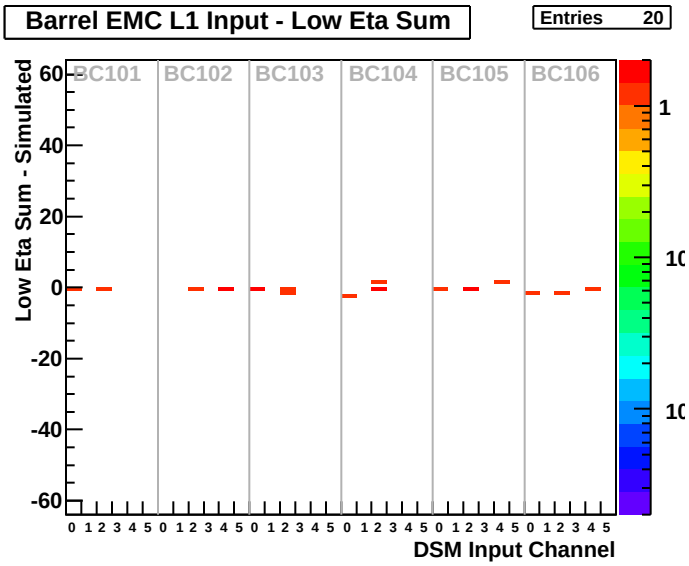
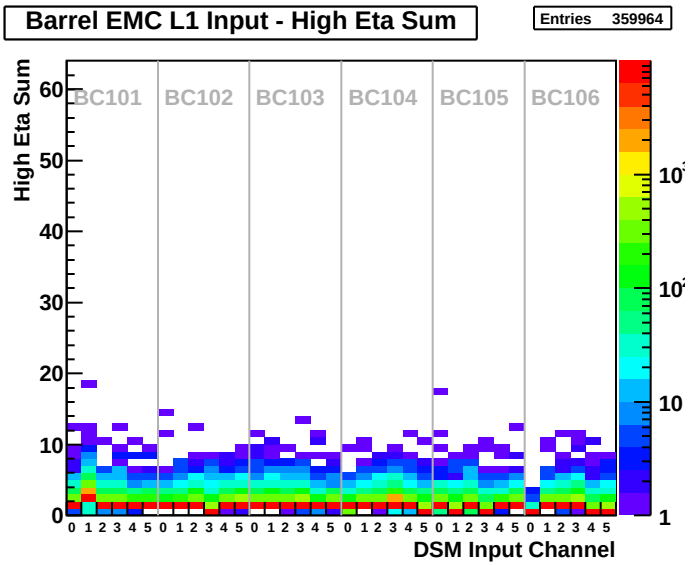
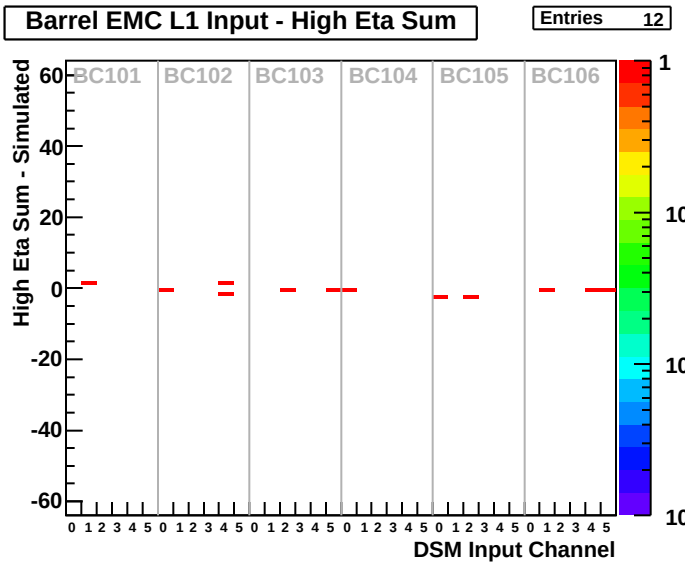
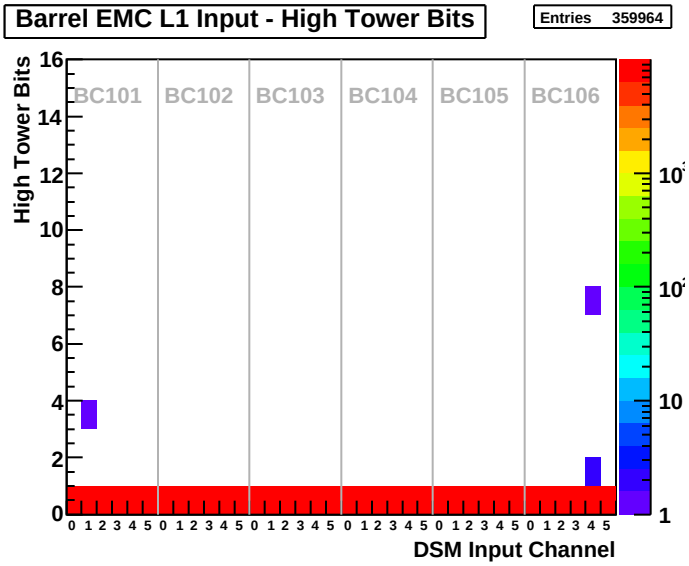
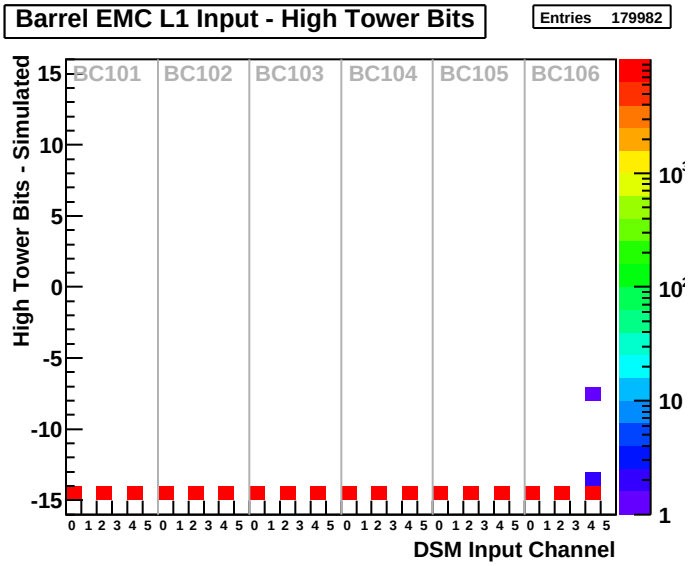

Barrel EMC L1 Input - Low Eta Sum
Entries 359964
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

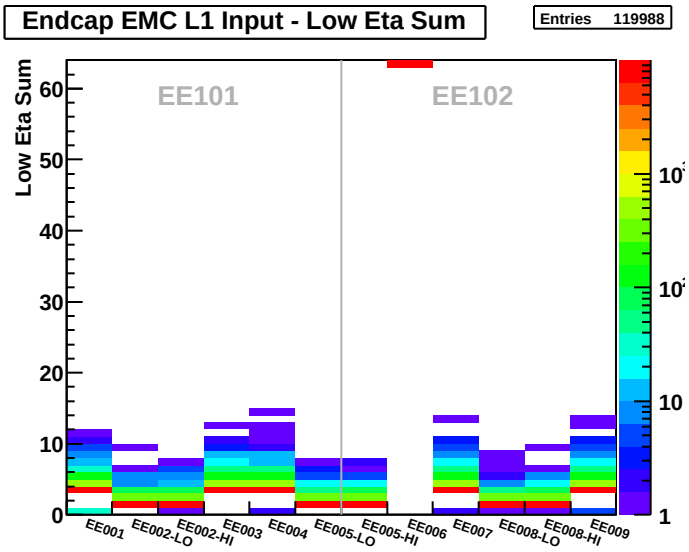

Barrel EMC L1 Input - Low Eta Sum
Entries 20
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

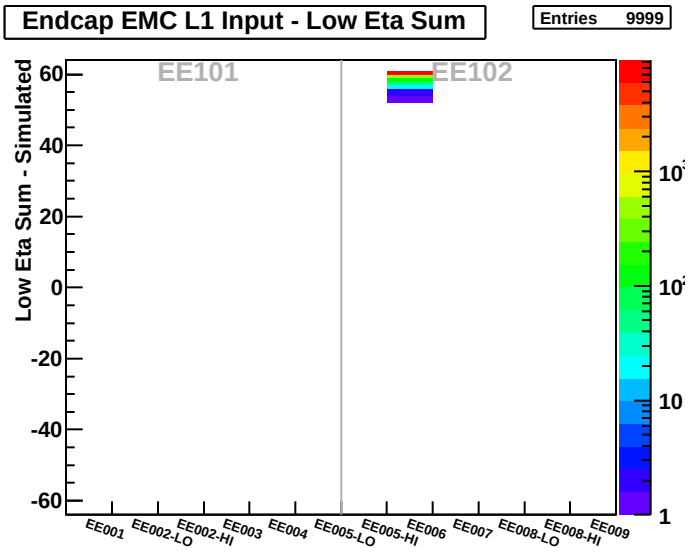

Barrel EMC L1 Input - High Eta Sum
Entries 359964
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

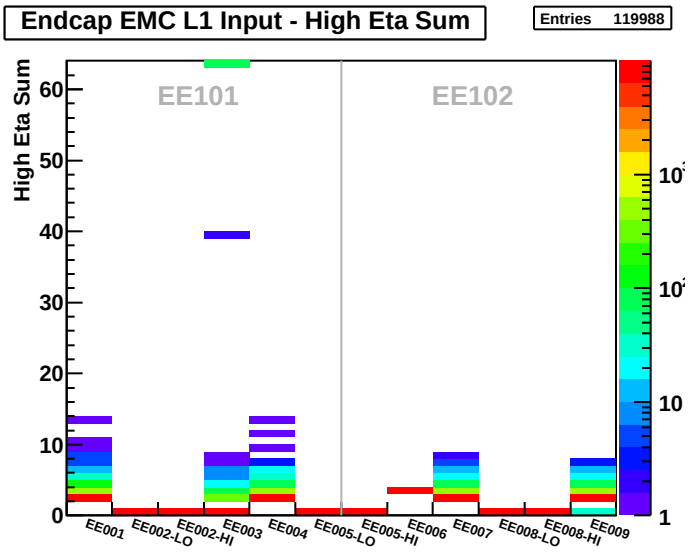

Barrel EMC L1 Input - High Eta Sum
Entries 12
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

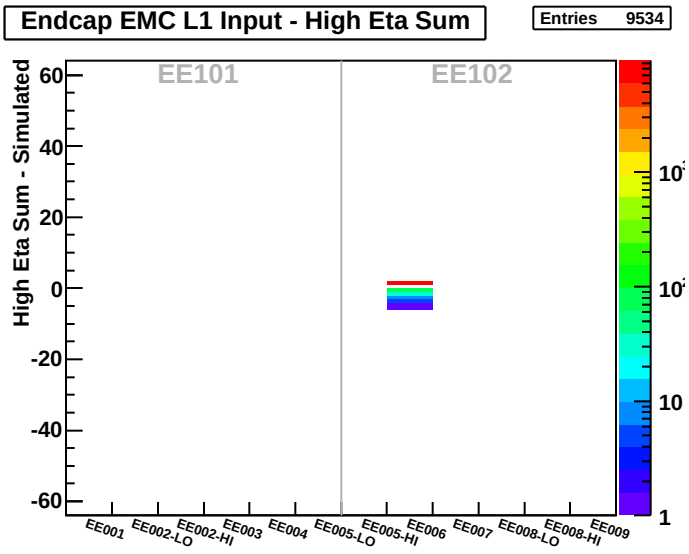

Barrel EMC L1 Input - High Tower Bits
Entries 359964
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

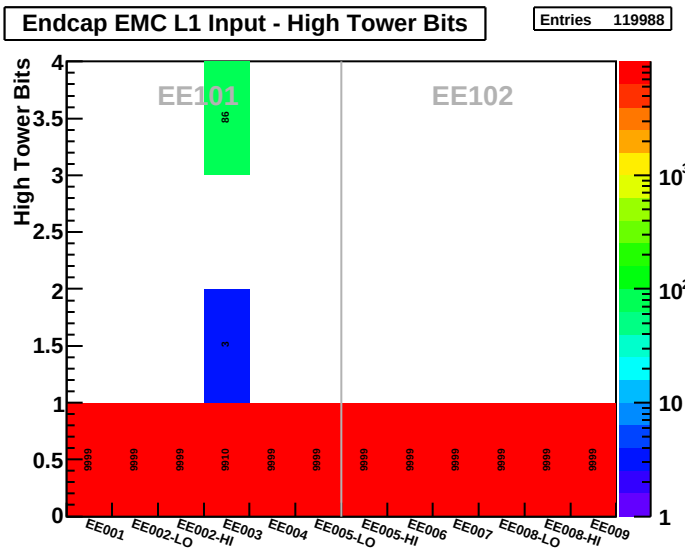

Barrel EMC L1 Input - High Tower Bits
Entries 179982
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

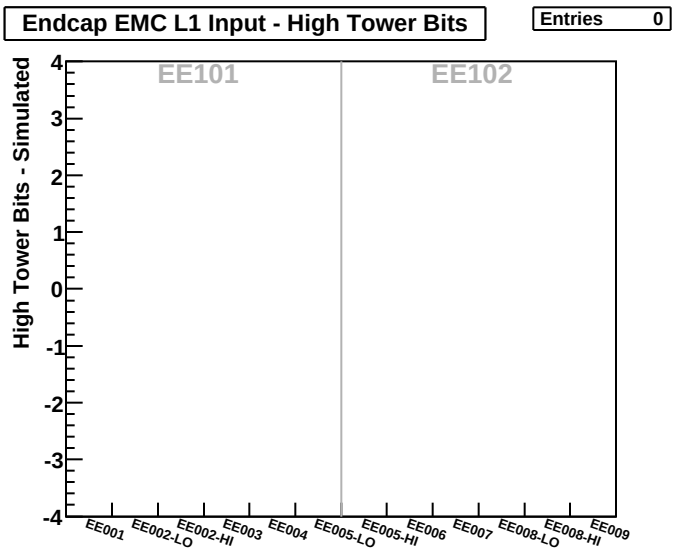

Endcap EMC L1 Input - Low Eta Sum
Entries 119988
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

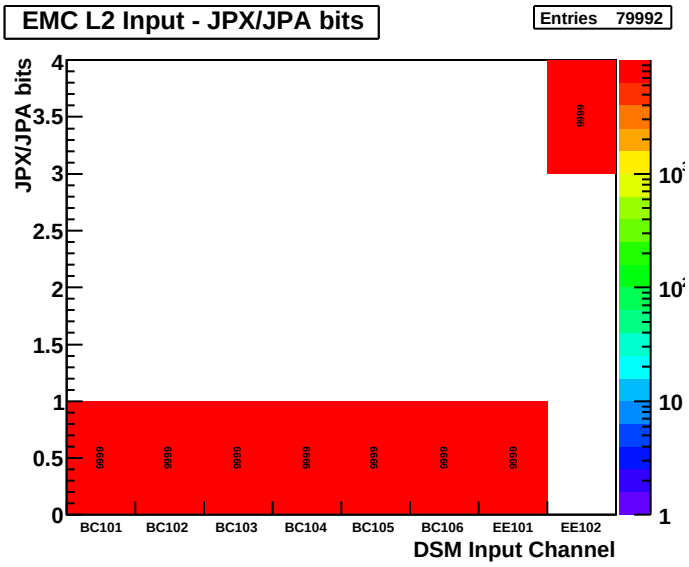

Endcap EMC L1 Input - Low Eta Sum
Entries 9999
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

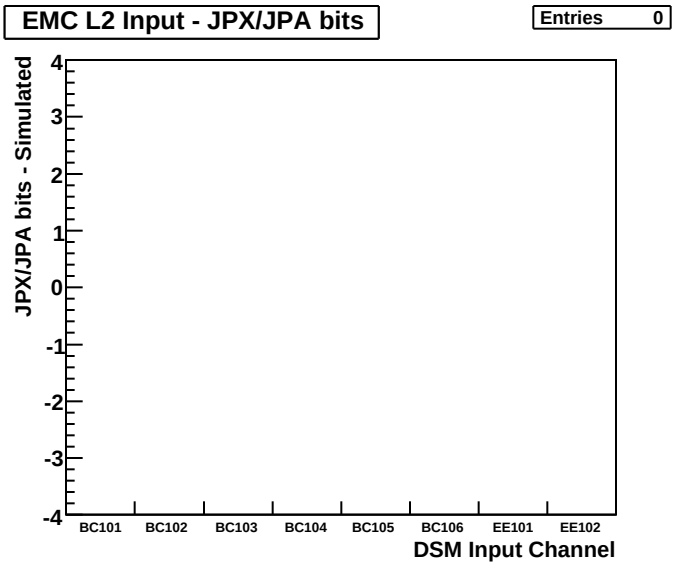

Endcap EMC L1 Input - High Eta Sum
Entries 119988
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

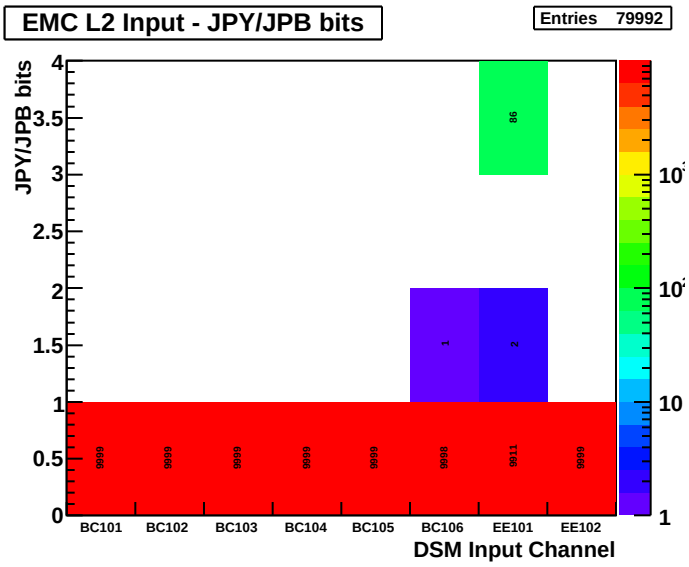

Endcap EMC L1 Input - High Eta Sum
Entries 9534
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

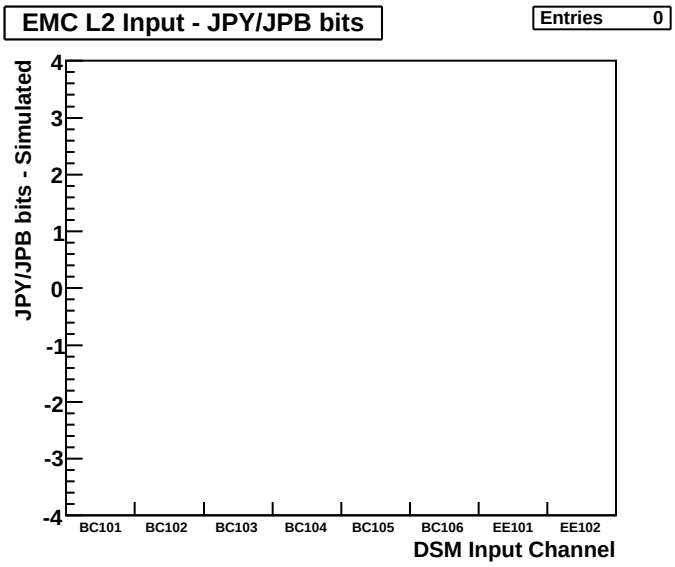

Endcap EMC L1 Input - High Tower Bits
Entries 119988
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

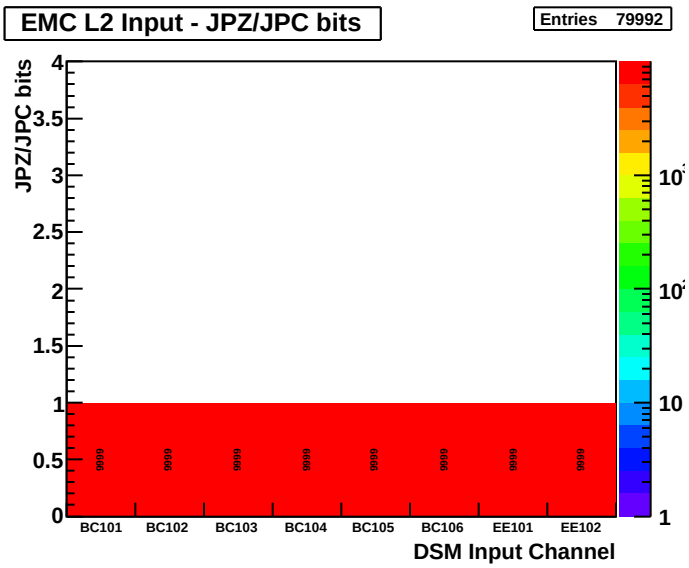

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

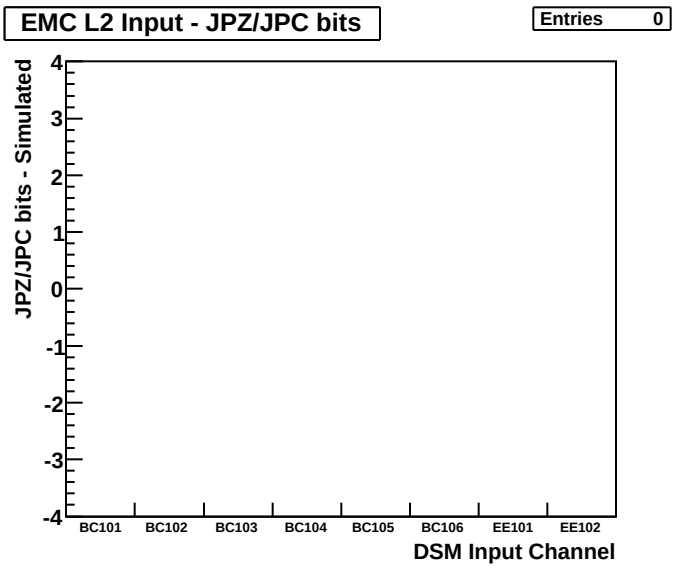

EMC L2 Input - JPX/JPA bits
Entries 79992
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

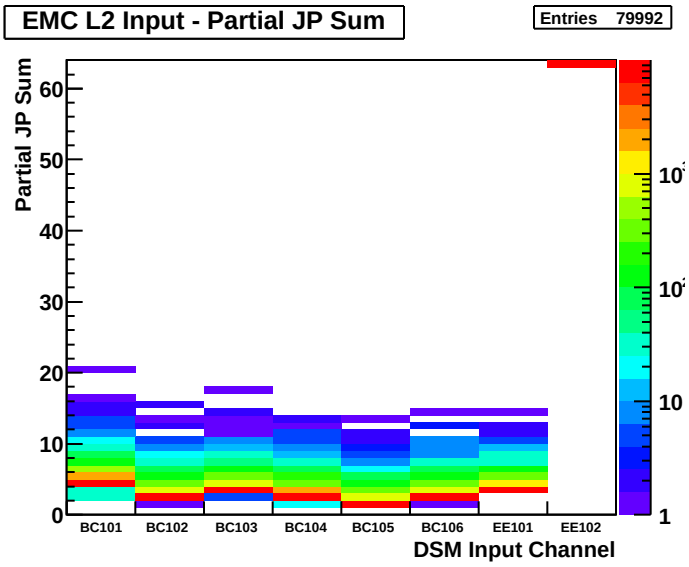

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

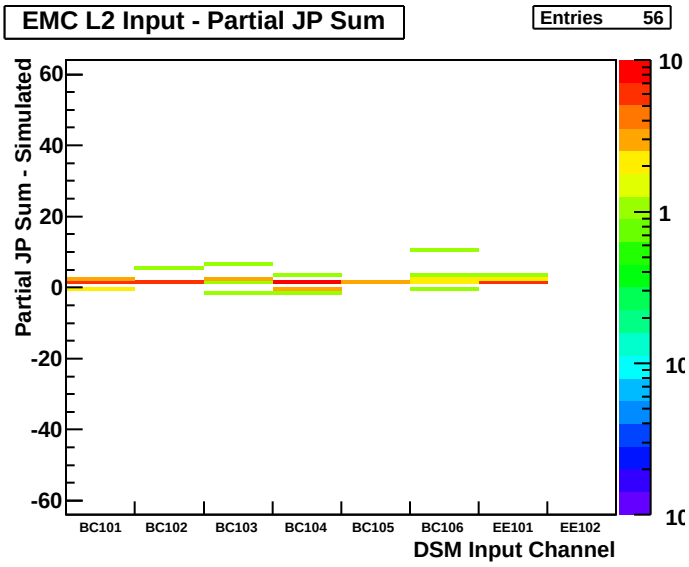

EMC L2 Input - JPY/JPB bits
Entries 79992
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

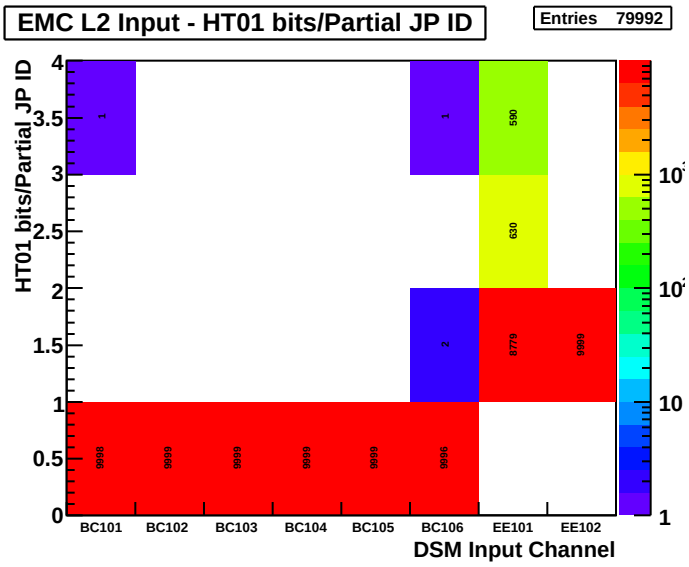

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

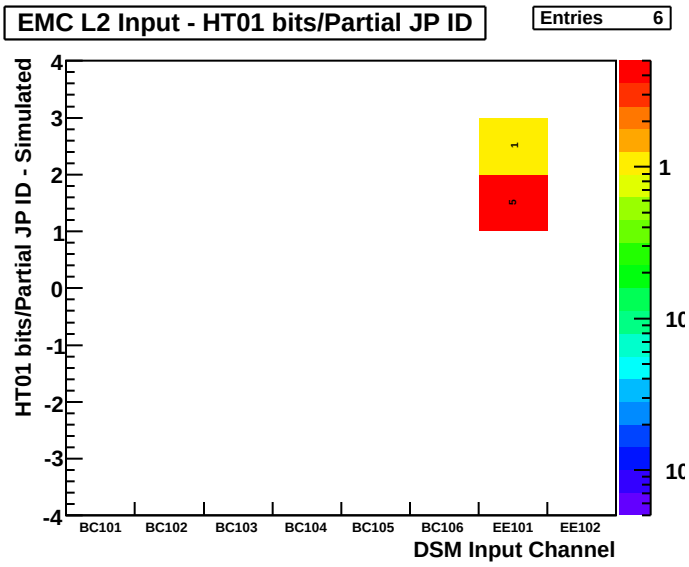

EMC L2 Input - JPZ/JPC bits
Entries 79992
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

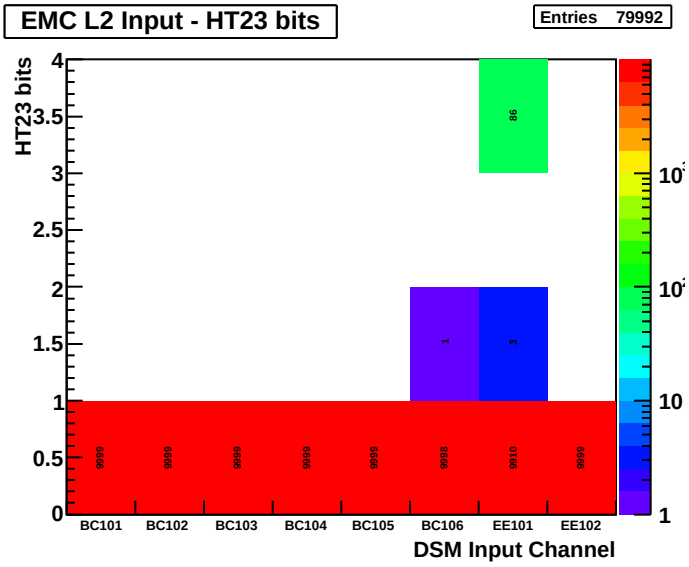

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

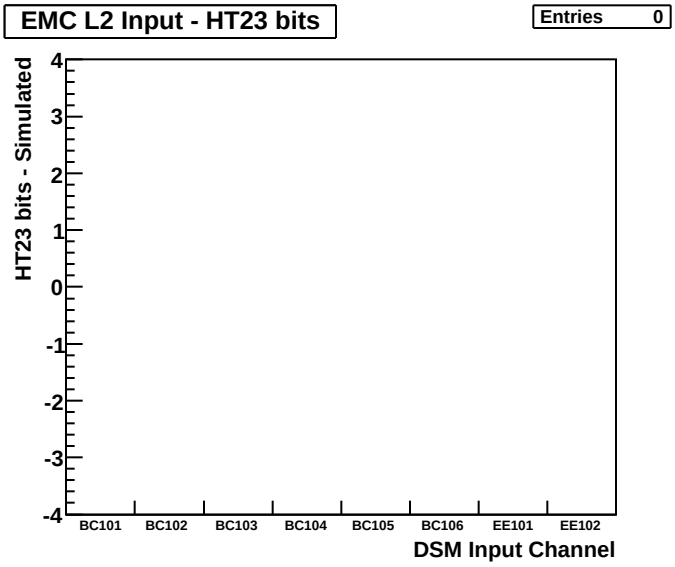

EMC L2 Input - Partial JP Sum
Entries 79992
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

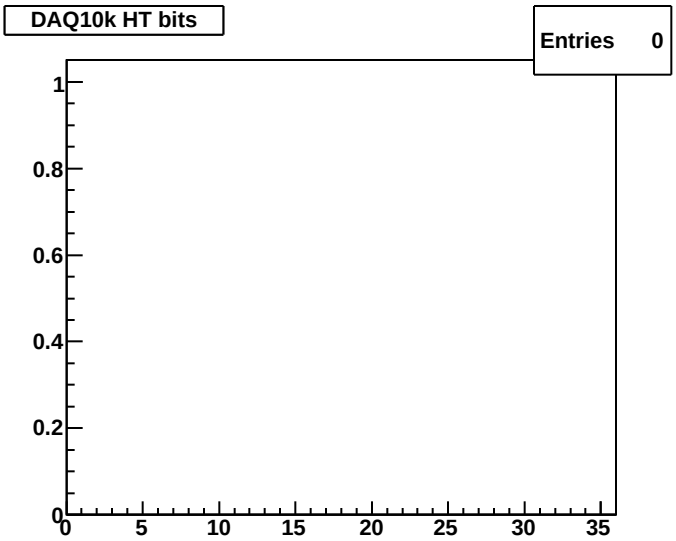

EMC L2 Input - Partial JP Sum
Entries 56
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

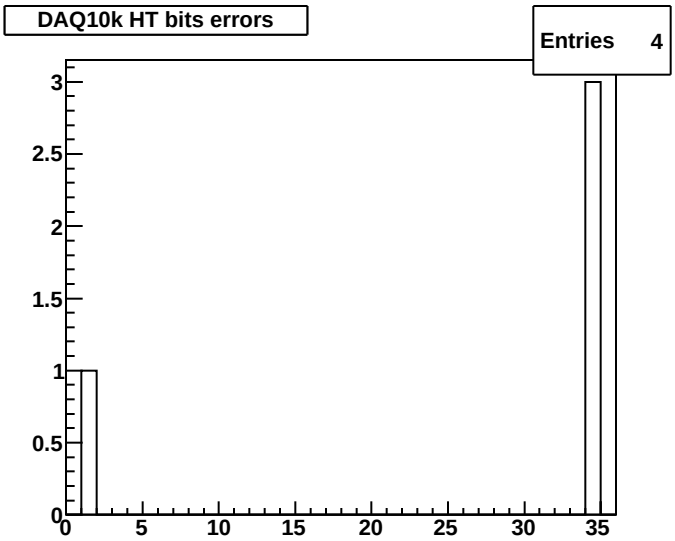

EMC L2 Input - HT01 bits/Partial JP ID
Entries 79992
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

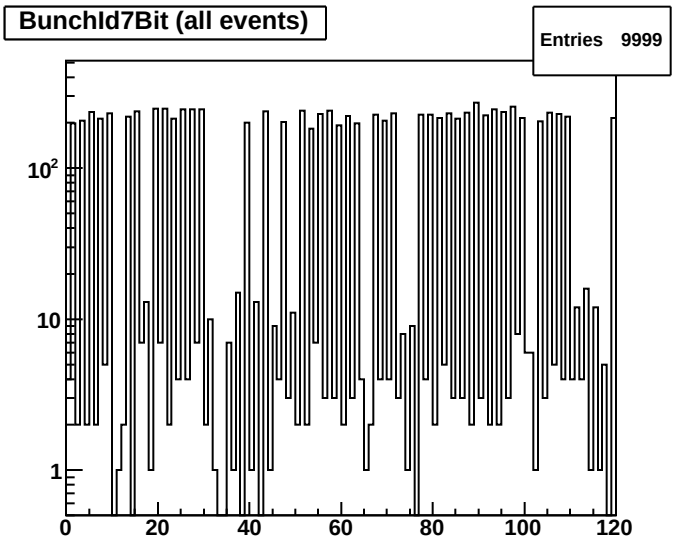

EMC L2 Input - HT01 bits/Partial JP ID
Entries 6
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

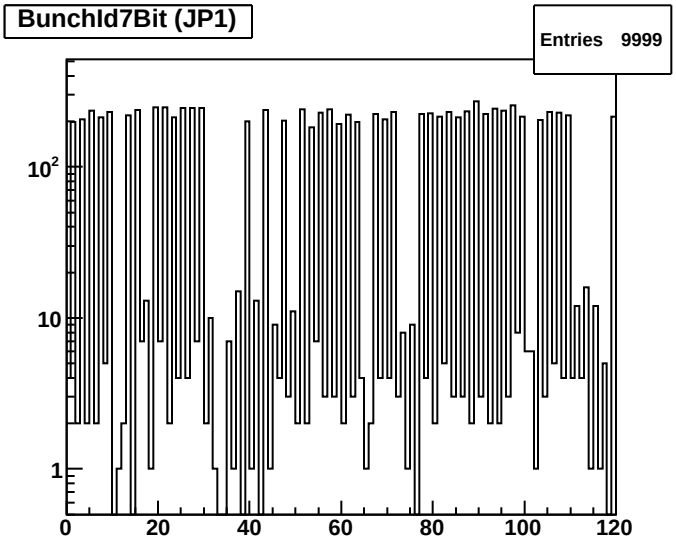

EMC L2 Input - HT23 bits
Entries 79992
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

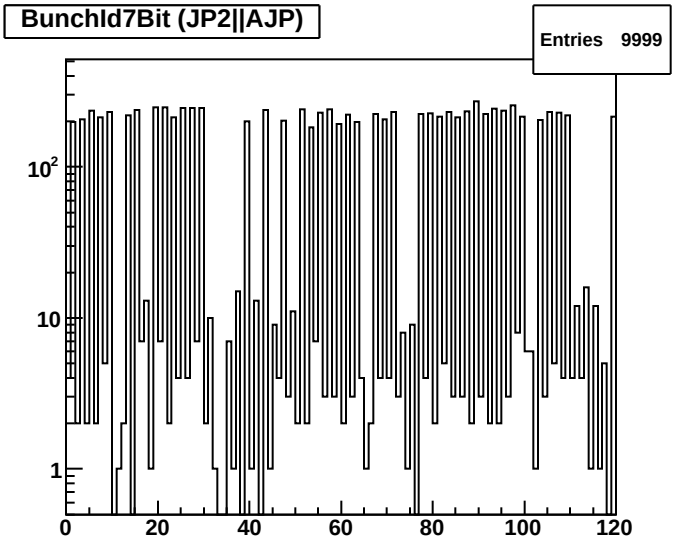

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

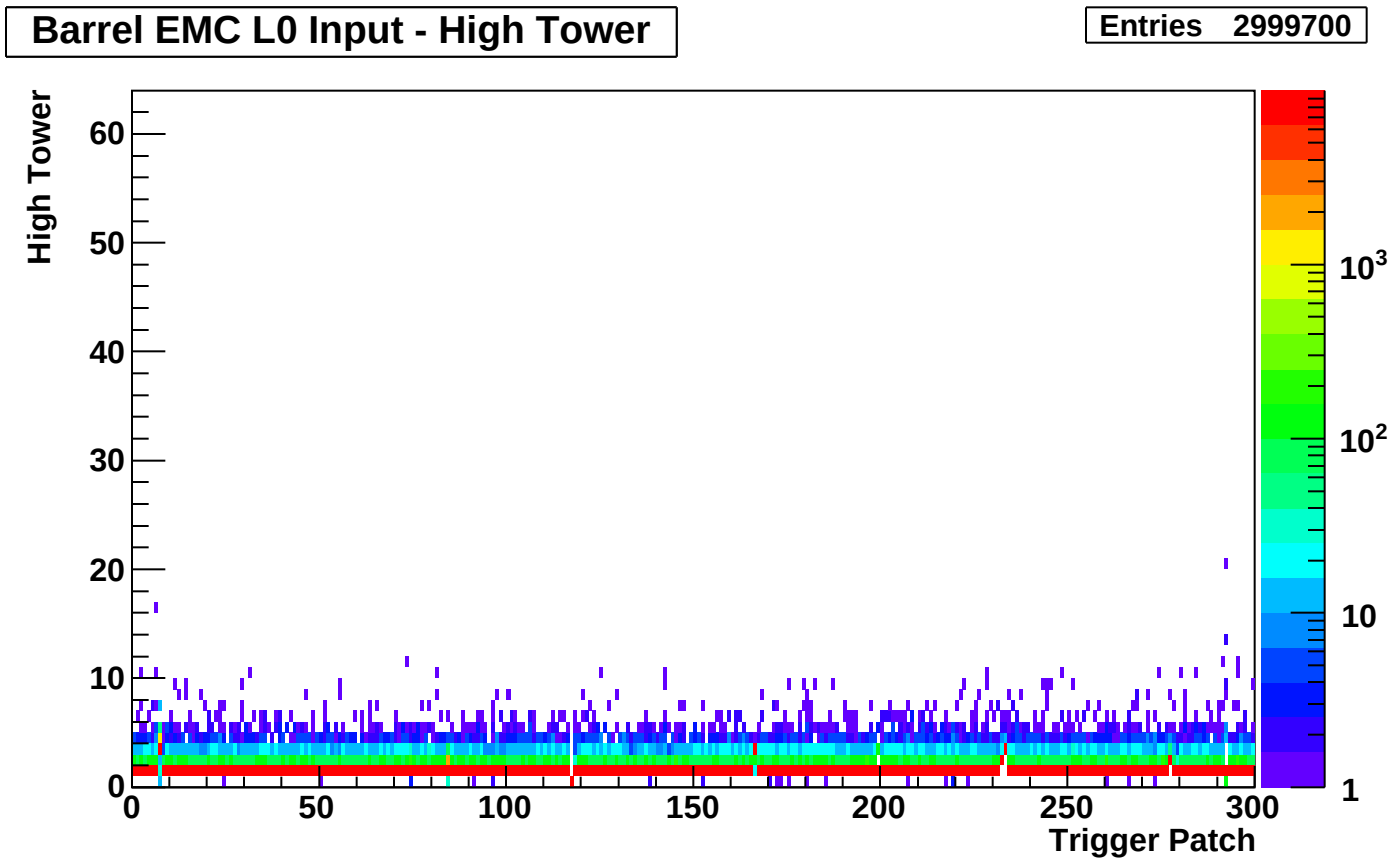

DAQ10k HT bits
Entries 0

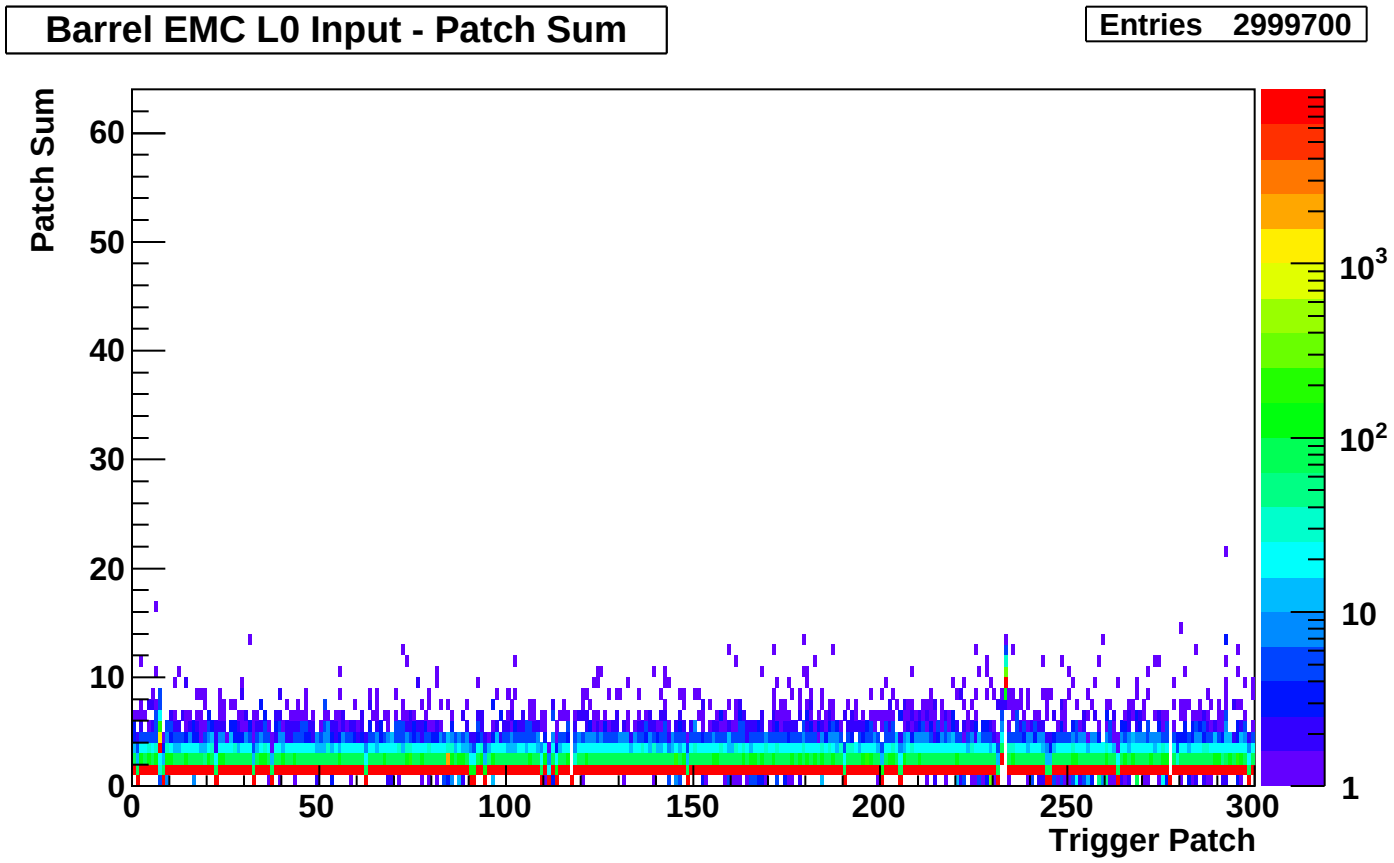

DAQ10k HT bits errors
Entries 4

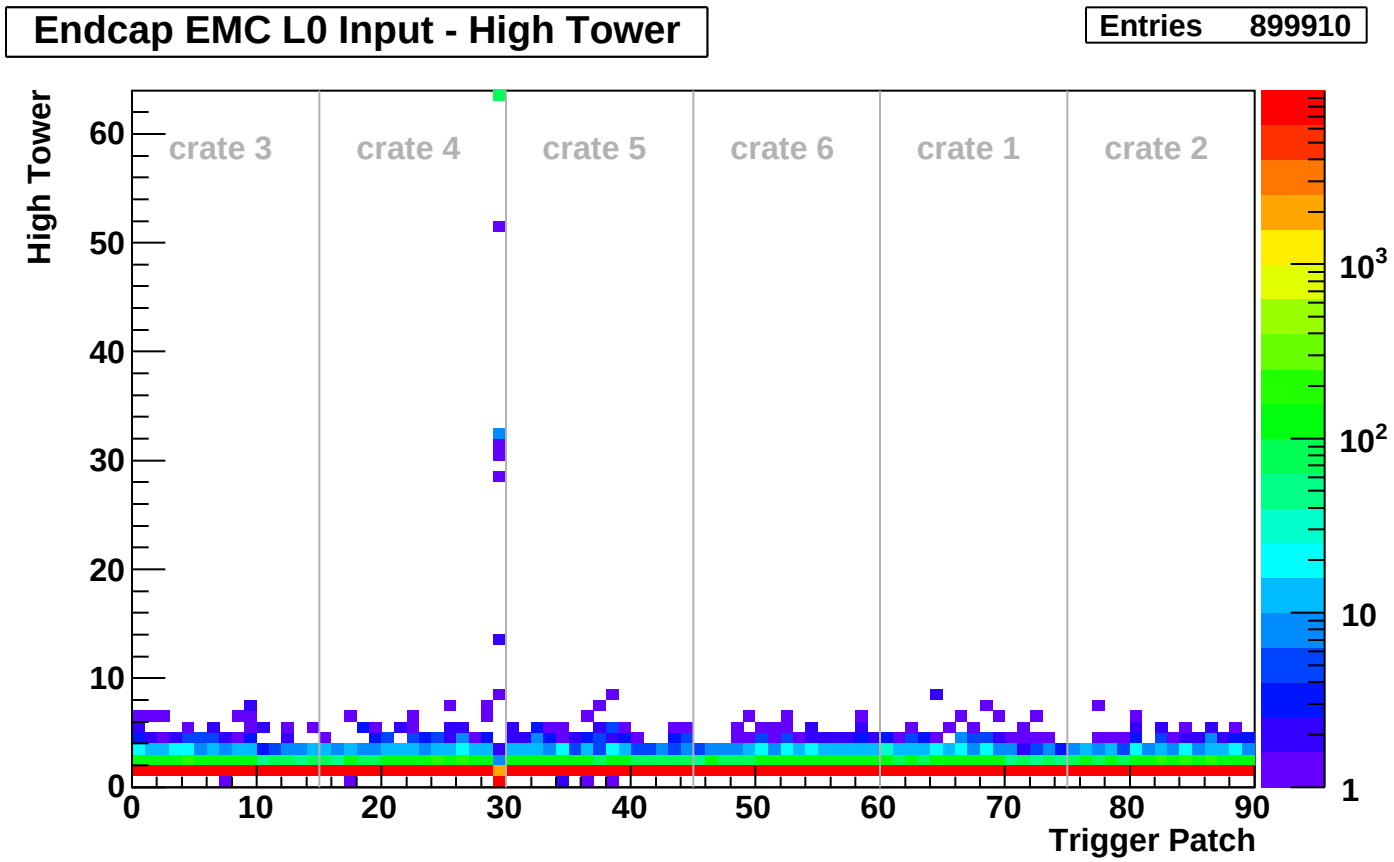

BunchId7Bit (all events)
Entries 9999

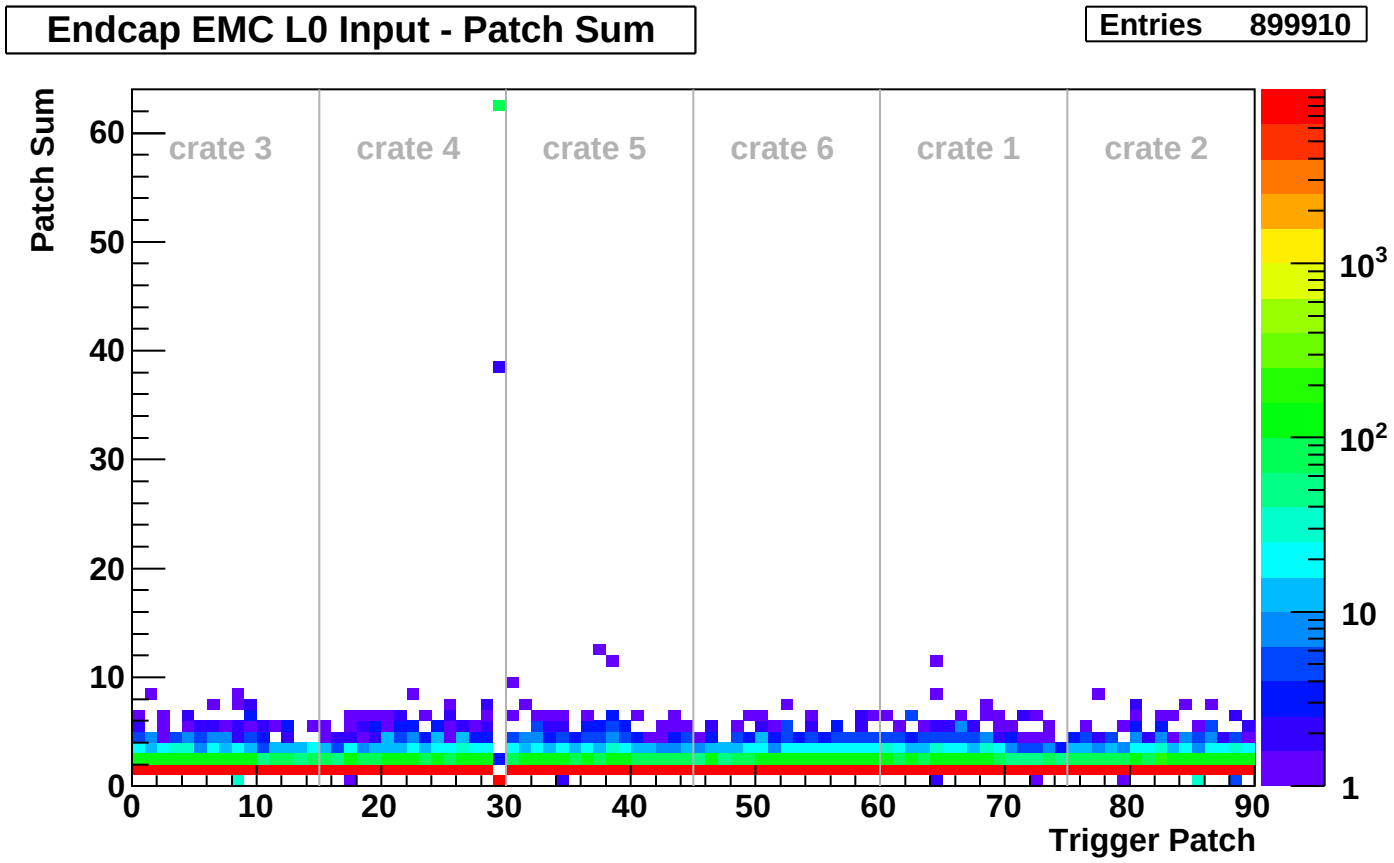

BunchId7Bit (JP1)
Entries 9999

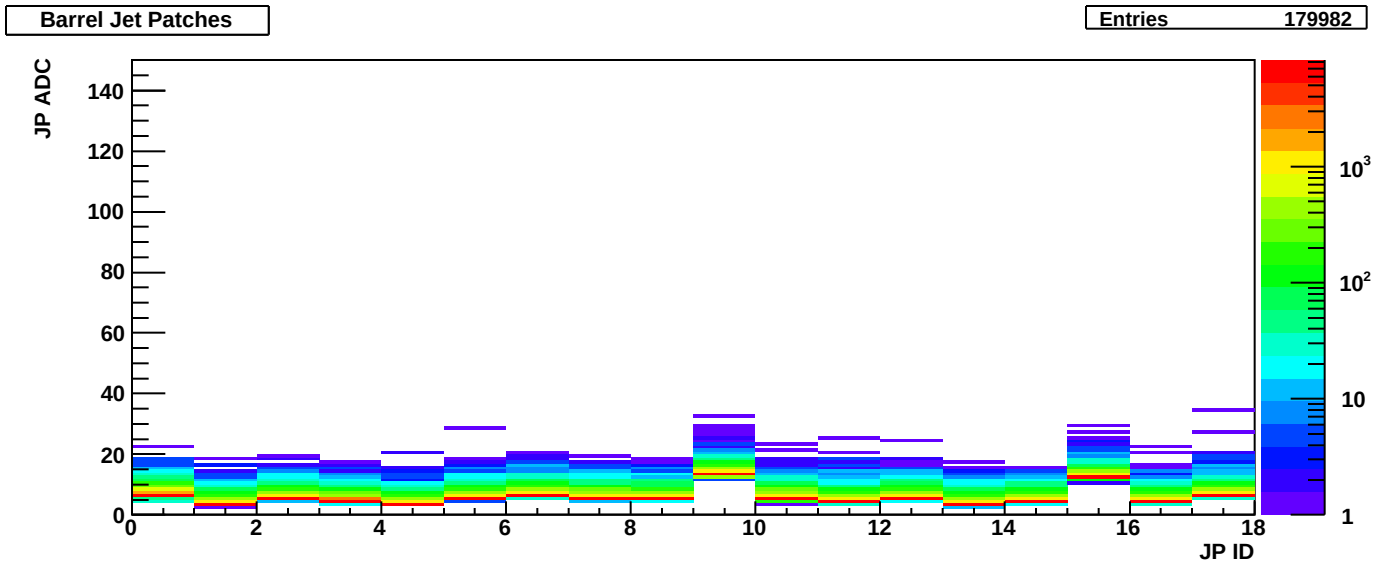

BunchId7Bit (JP2||AJP)
Entries 9999

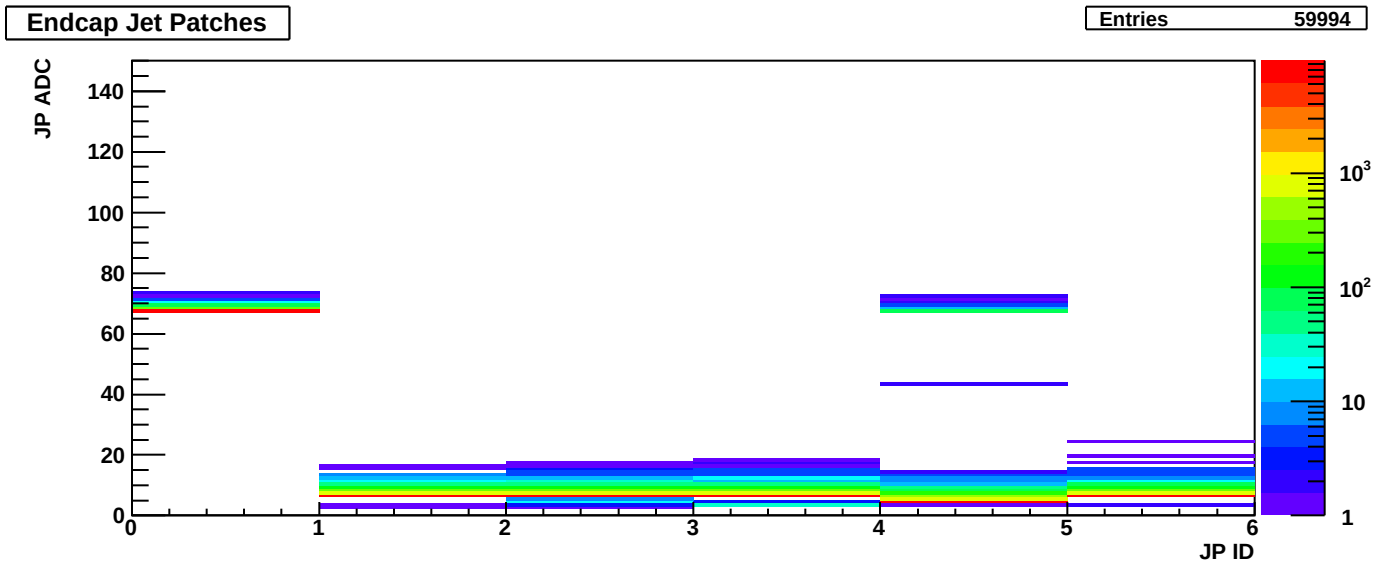

Barrel EMC L0 Input - High Tower
Entries 2999700
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3

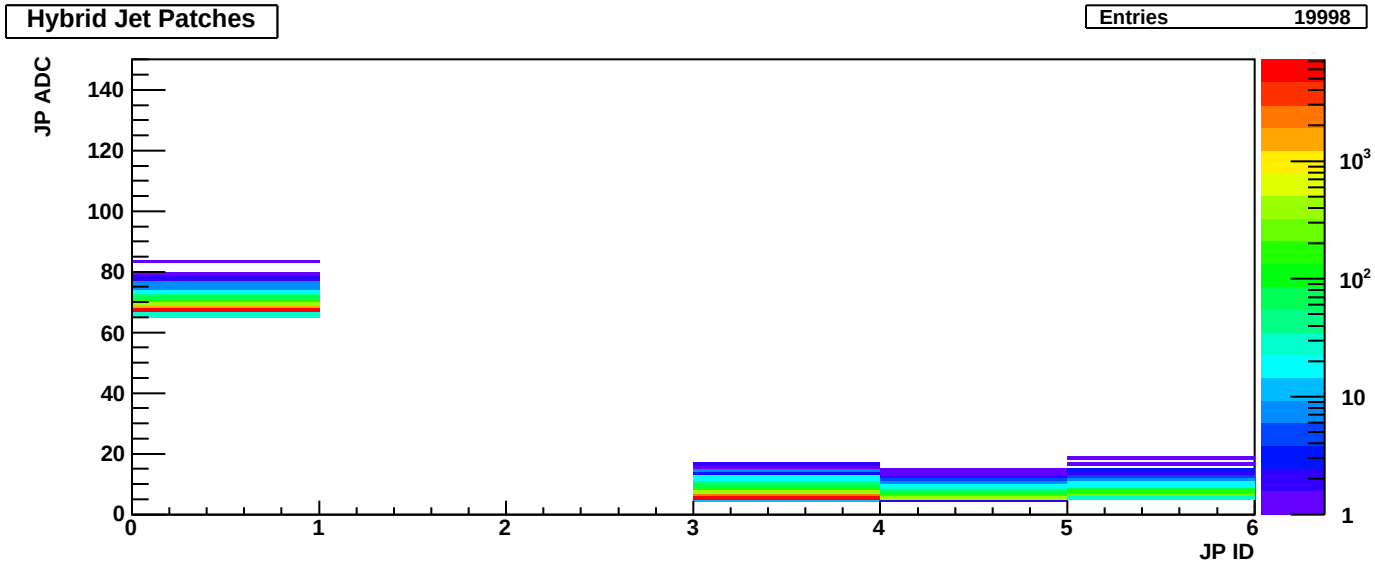

Barrel EMC L0 Input - Patch Sum
Entries 2999700
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3

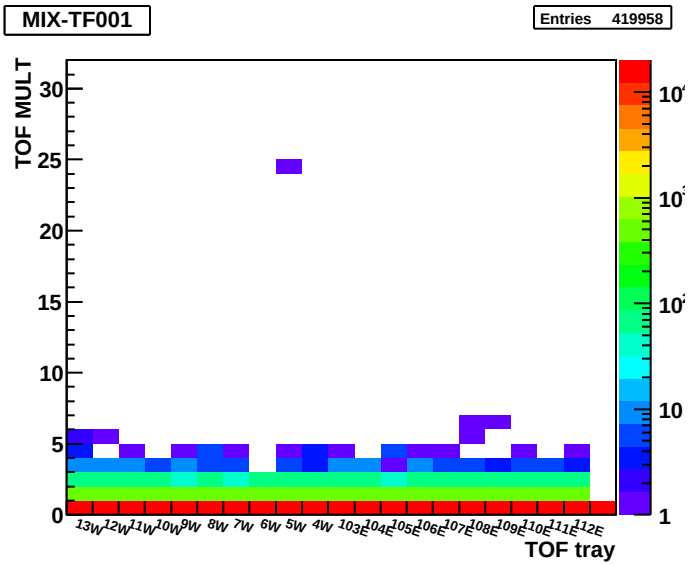

Endcap EMC L0 Input - High Tower
Entries 899910
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

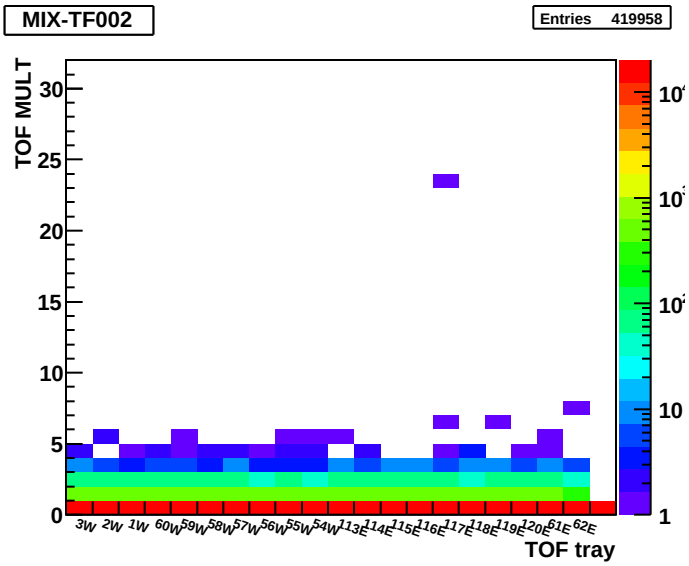

Endcap EMC L0 Input - Patch Sum
Entries 899910
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

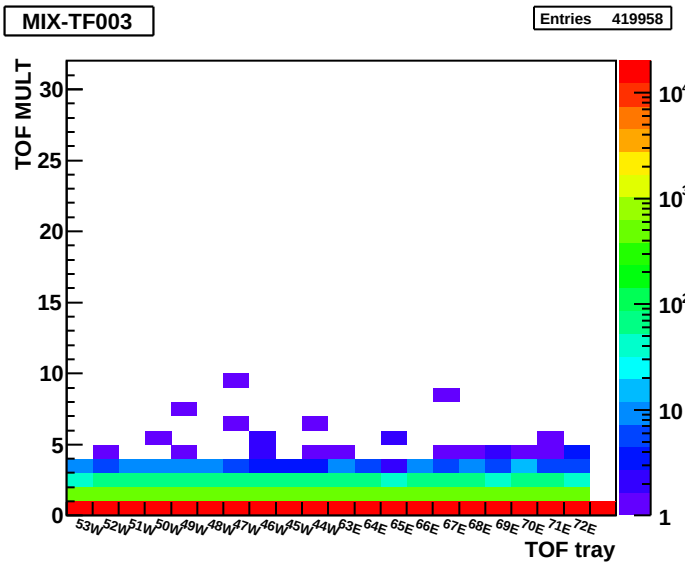

Barrel Jet Patches
Entries 179982
JP ADC
JP ID

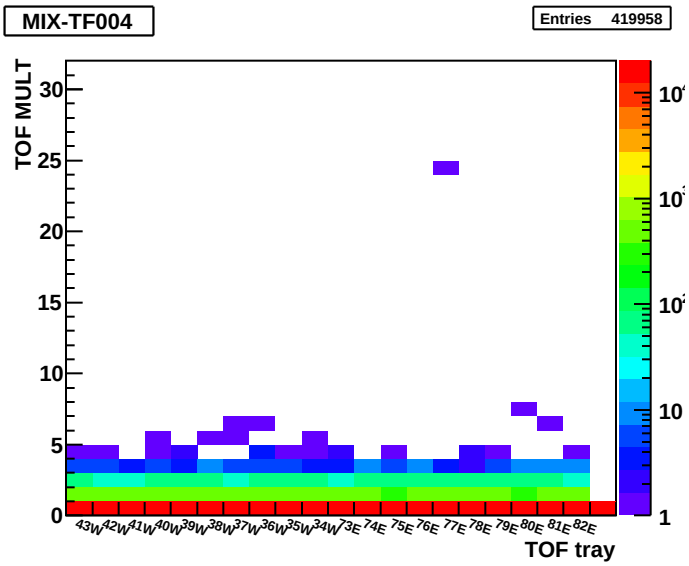

Endcap Jet Patches
Entries 59994
JP ADC
JP ID

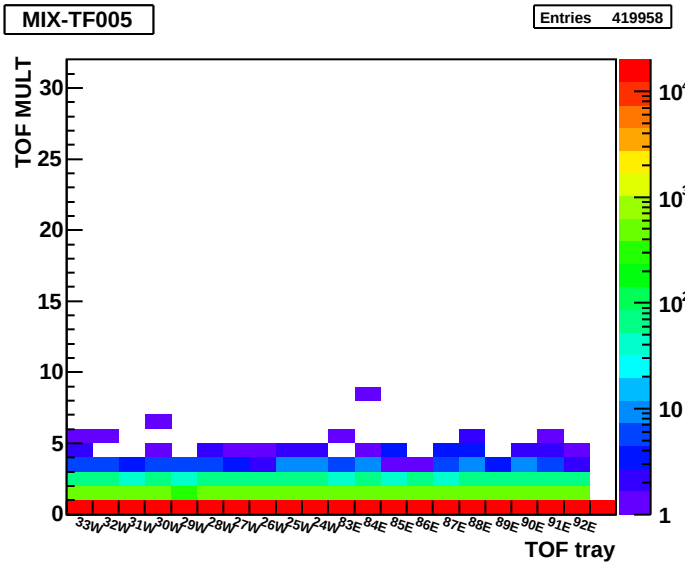

Hybrid Jet Patches
Entries 19998
JP ADC
JP ID

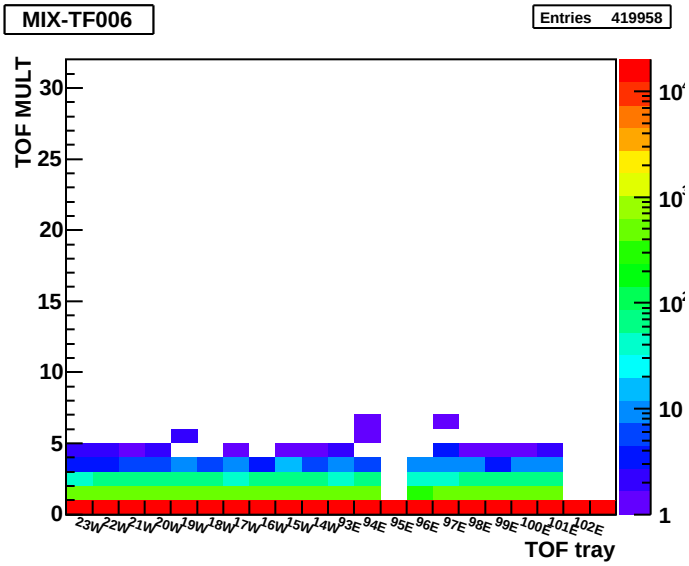

MIX-TF001
Entries 419958
TOF MULT
TOF tray

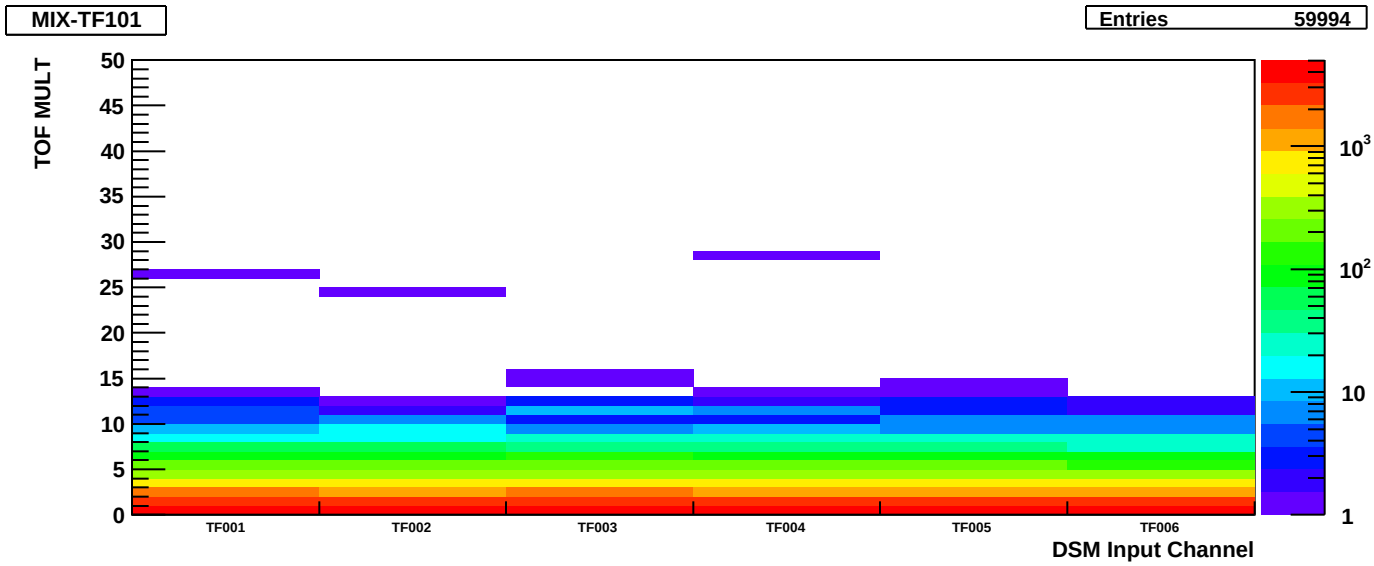

MIX-TF002
Entries 419958
TOF MULT
TOF tray

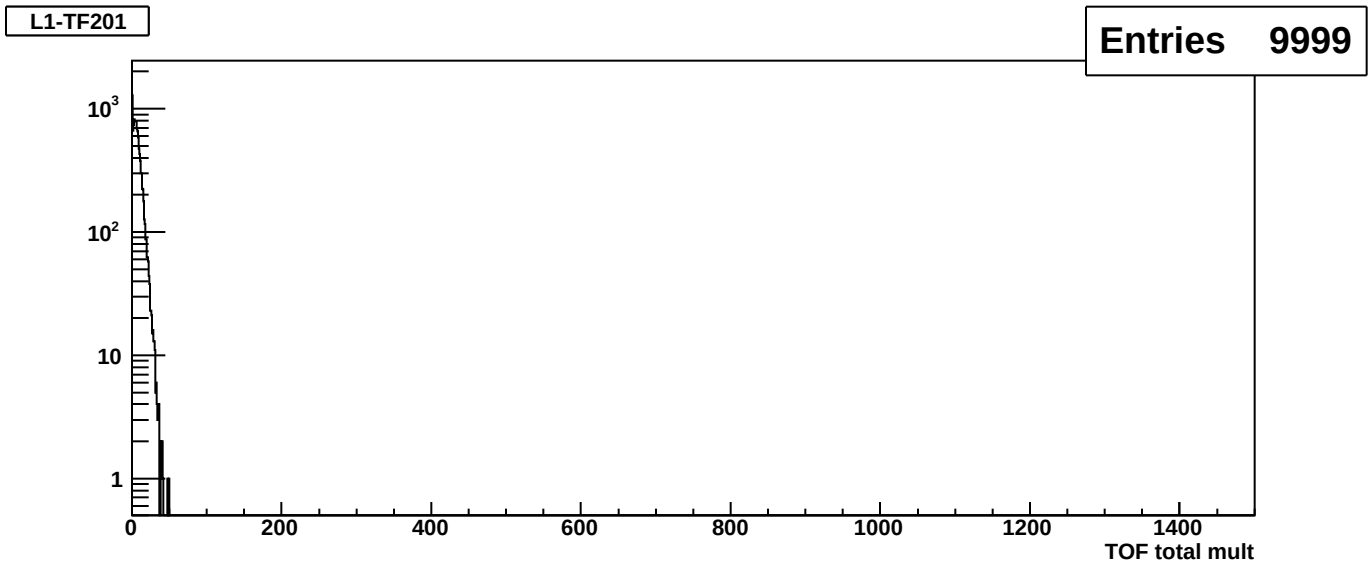

MIX-TF003
Entries 419958
TOF MULT
TOF tray

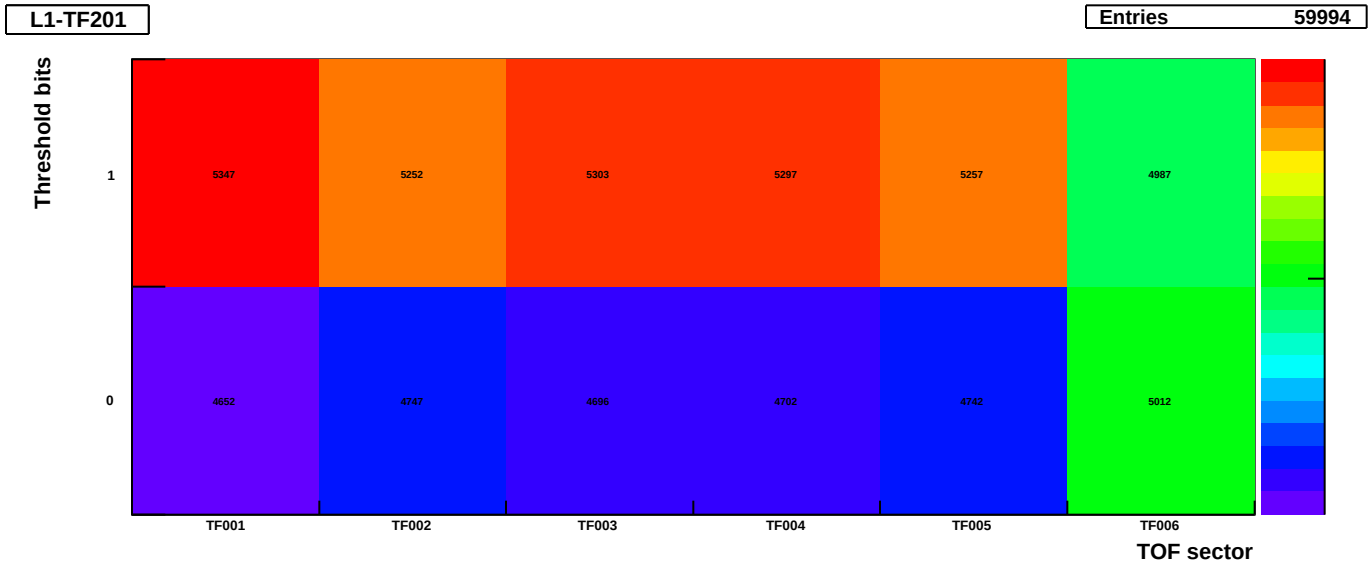

MIX-TF004
Entries 419958
TOF MULT
TOF tray

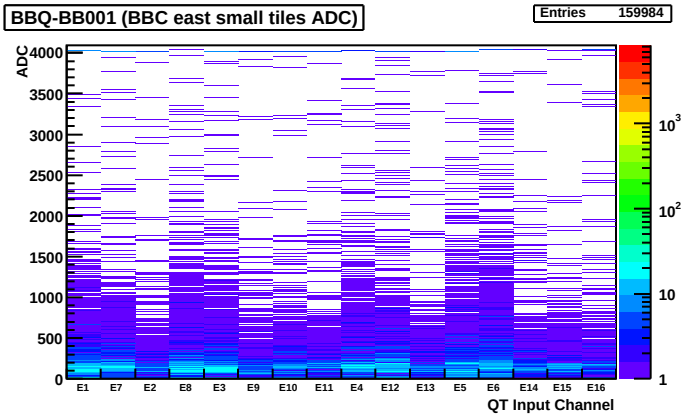

MIX-TF005
Entries 419958
TOF MULT
TOF tray

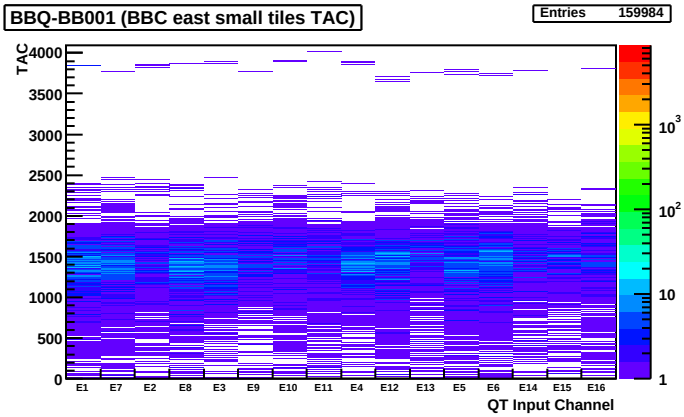

MIX-TF006
Entries 419958
TOF MULT
TOF tray

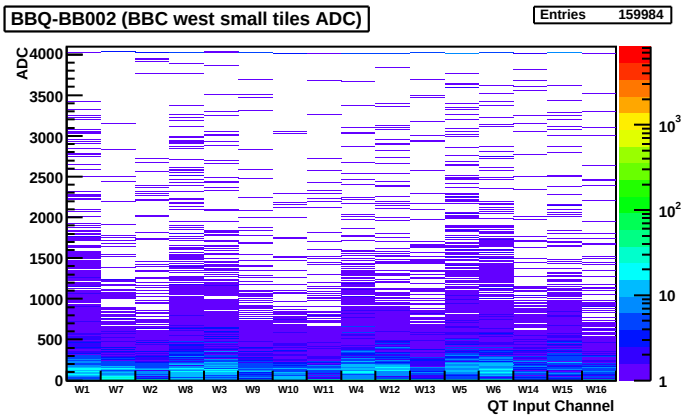

MIX-TF101
Entries 59994
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3
10^2
10
1

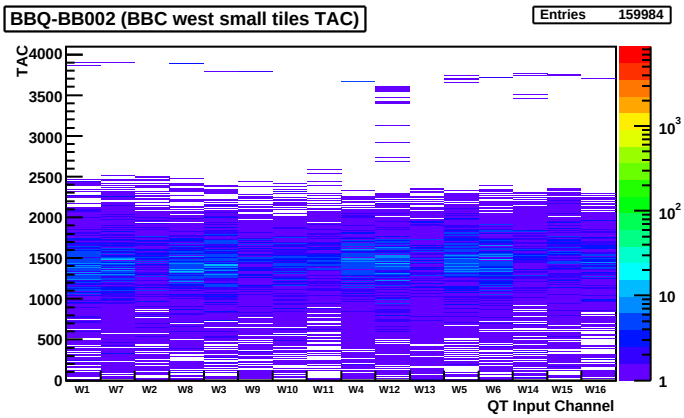

L1-TF201
Entries 9999
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

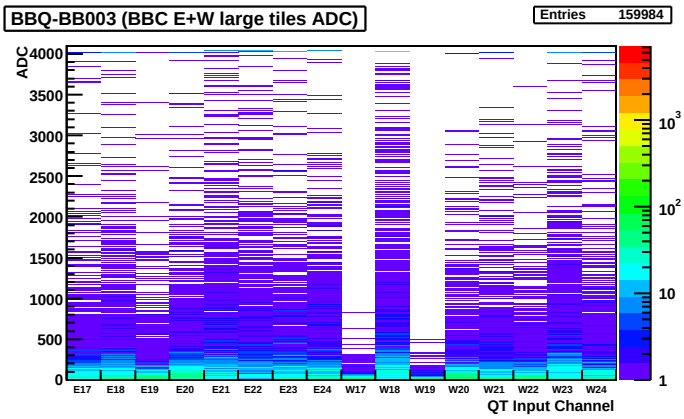

L1-TF201
Entries 59994
Threshold bits
1
0
5347
5252
5303
5297
5257
4987
4652
4747
4696
4702
4742
5012
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

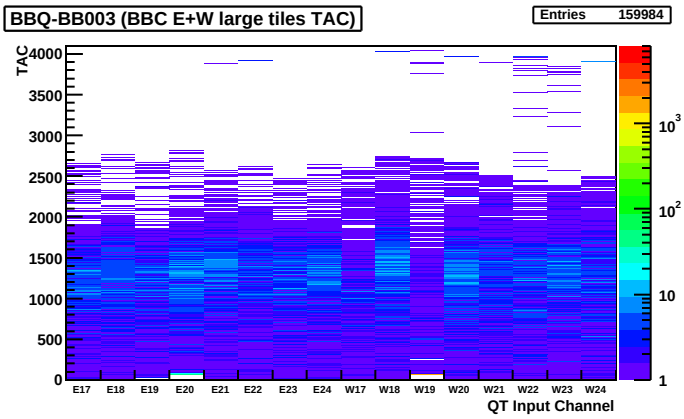

BBQ-BB001 (BBC east small tiles ADC)
Entries 159984
ADC
QT Input Channel

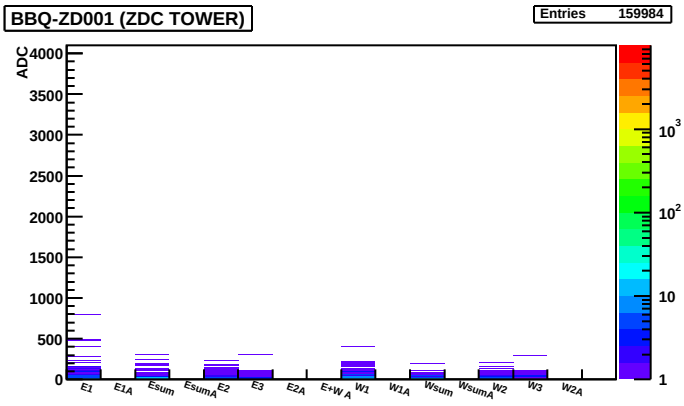

BBQ-BB001 (BBC east small tiles TAC)
Entries 159984
TAC
QT Input Channel

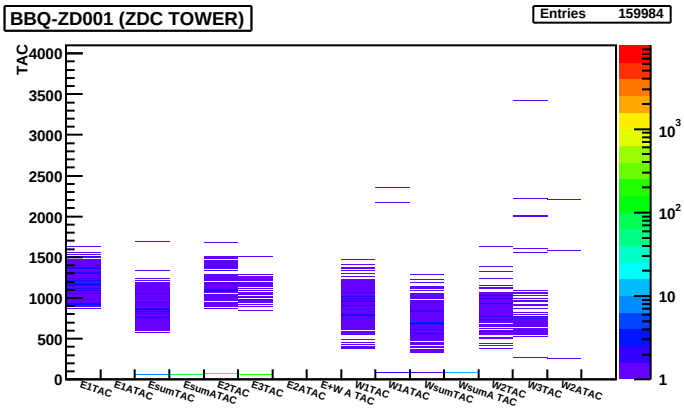

BBQ-BB002 (BBC west small tiles ADC)
Entries 159984
ADC
QT Input Channel

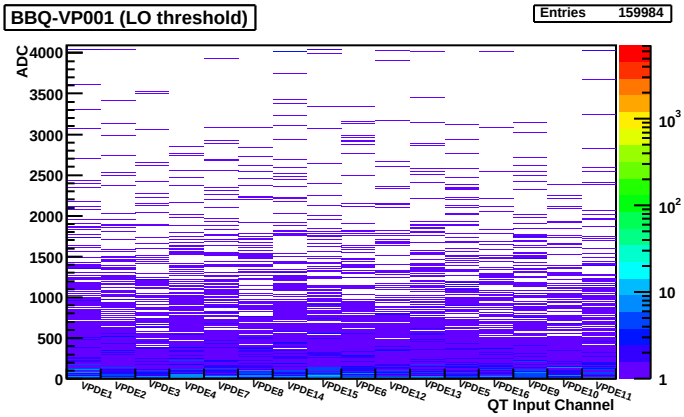

BBQ-BB002 (BBC west small tiles TAC)
Entries 159984
TAC
QT Input Channel

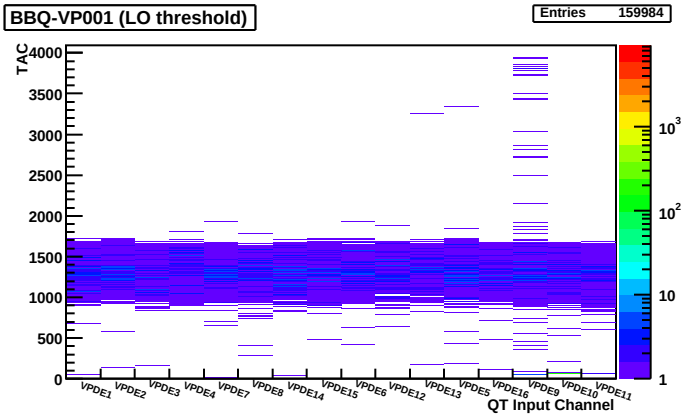

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 159984
ADC
QT Input Channel

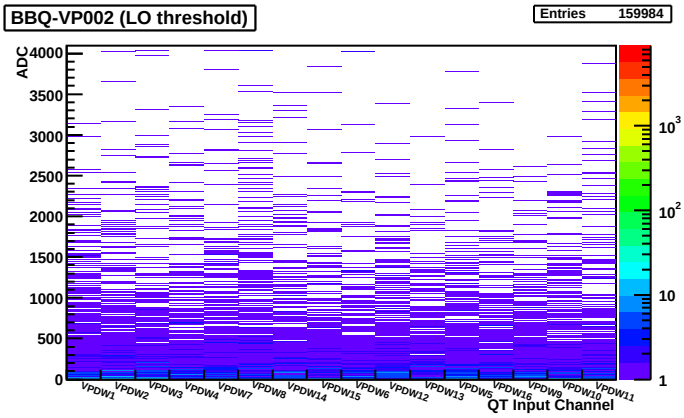

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 159984
TAC
QT Input Channel

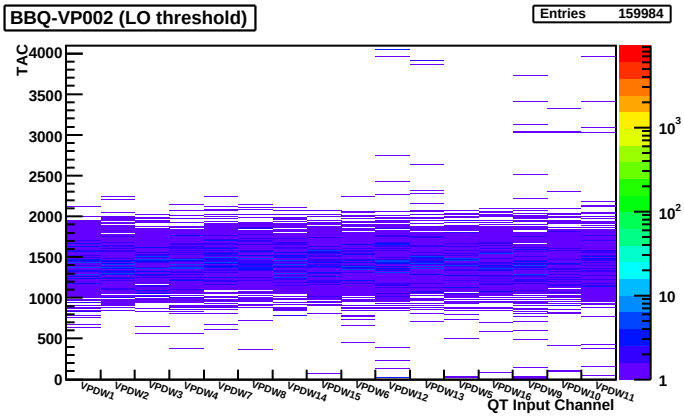

BBQ-ZD001 (ZDC TOWER)
Entries 159984
ADC

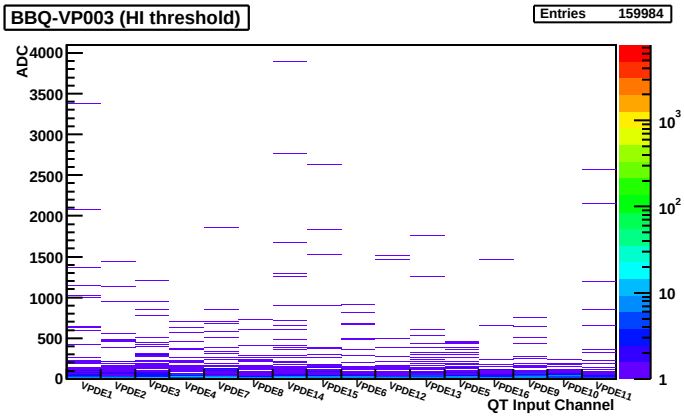

BBQ-ZD001 (ZDC TOWER)
Entries 159984
TAC

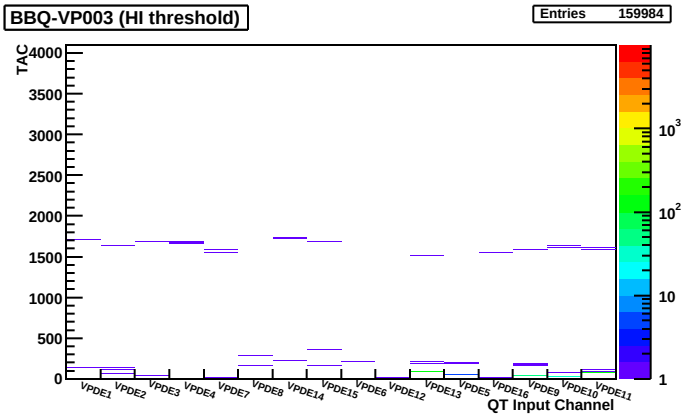

BBQ-VP001 (LO threshold)
Entries 159984
ADC
QT Input Channel

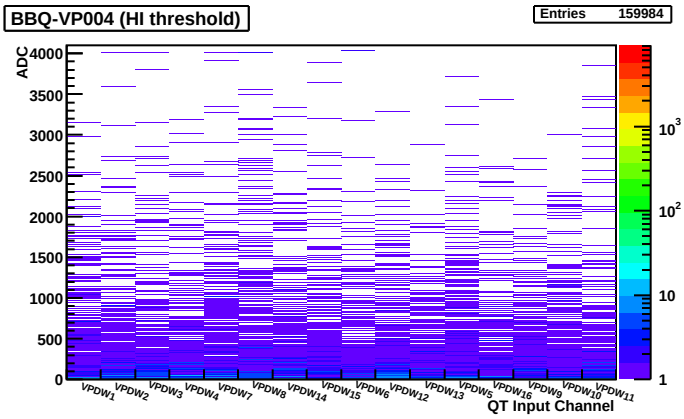

BBQ-VP001 (LO threshold)
Entries 159984
TAC
QT Input Channel

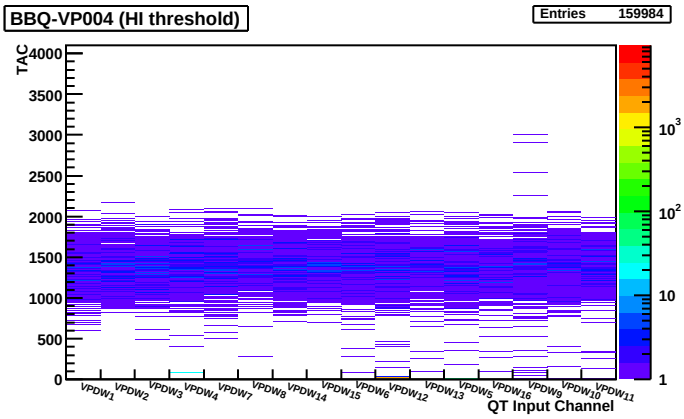

BBQ-VP002 (LO threshold)
Entries 159984
ADC
QT Input Channel

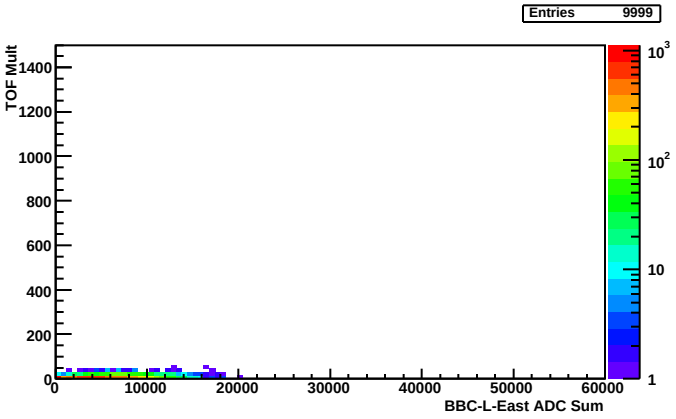

BBQ-VP002 (LO threshold)
Entries 159984
TAC
QT Input Channel

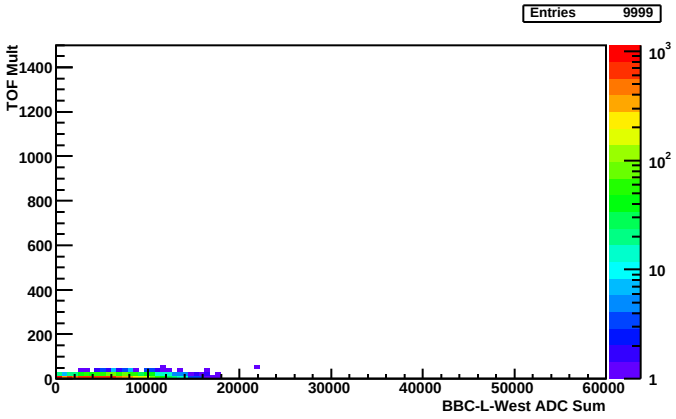

BBQ-VP003 (HI threshold)
Entries 159984
ADC
QT Input Channel

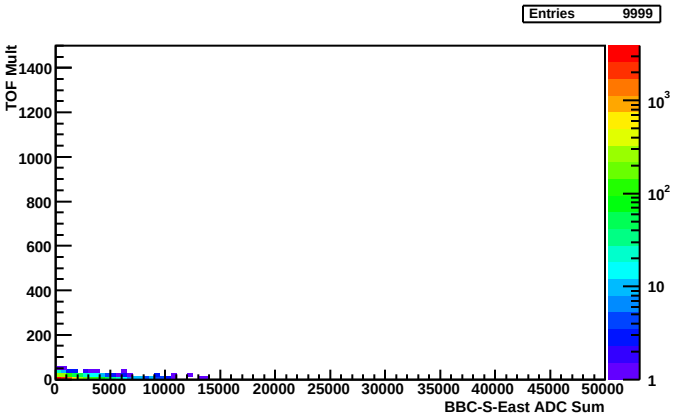

BBQ-VP003 (HI threshold)
Entries 159984
TAC
QT Input Channel

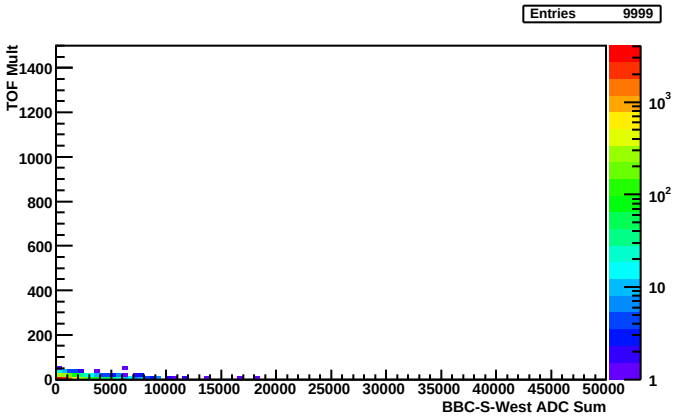

BBQ-VP004 (HI threshold)
Entries 159984
ADC
QT Input Channel

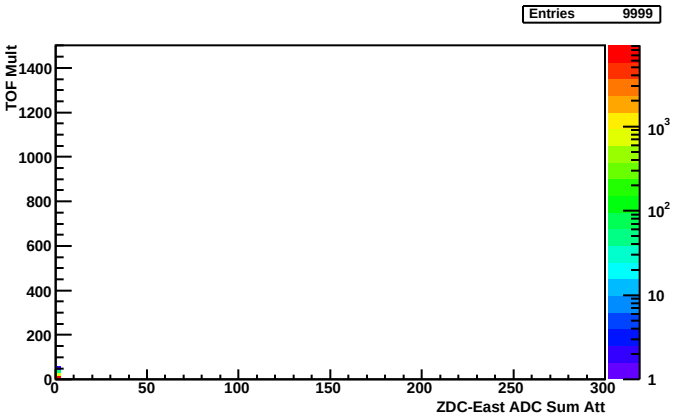

BBQ-VP004 (HI threshold)
Entries 159984
TAC
QT Input Channel

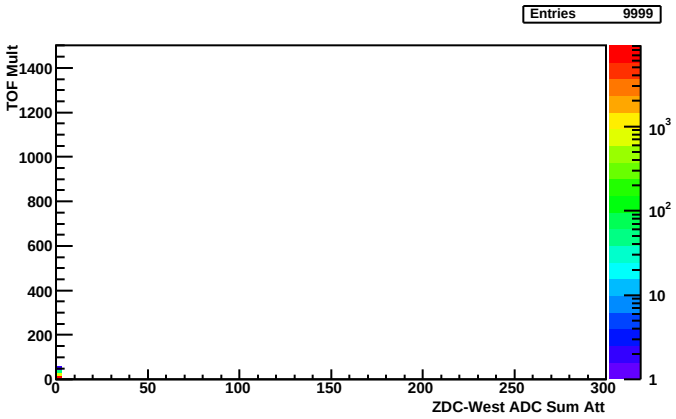

Entries 9999
TOF Mult
BBC-L-East ADC Sum

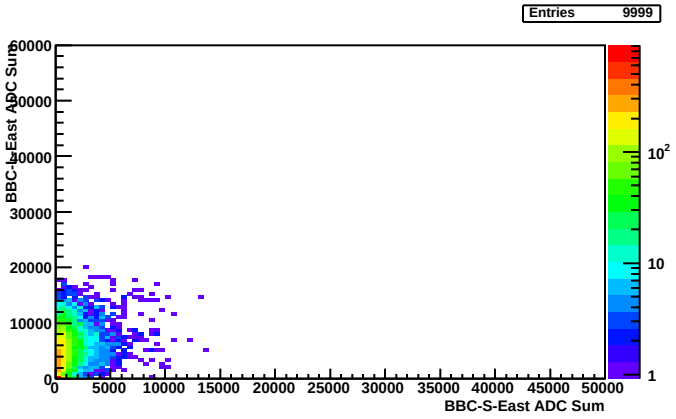

Entries 9999
TOF Mult
BBC-L-West ADC Sum

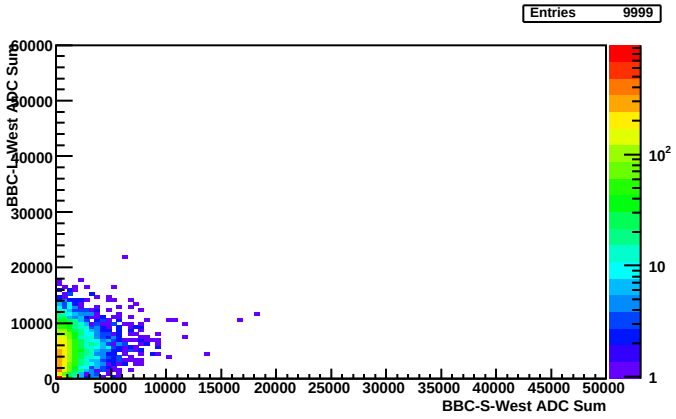

Entries 9999
TOF Mult
BBC-S-East ADC Sum

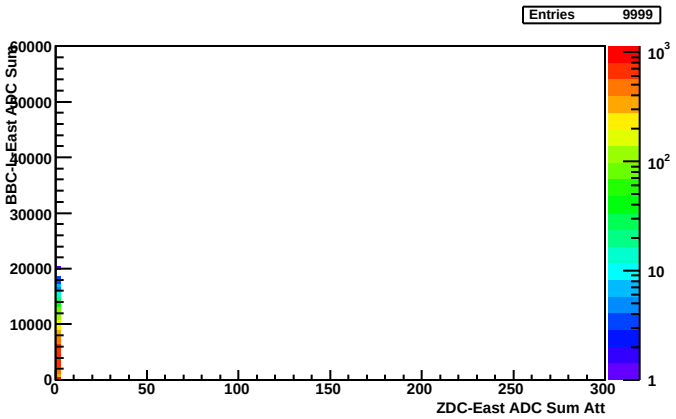

Entries 9999
TOF Mult
BBC-S-West ADC Sum

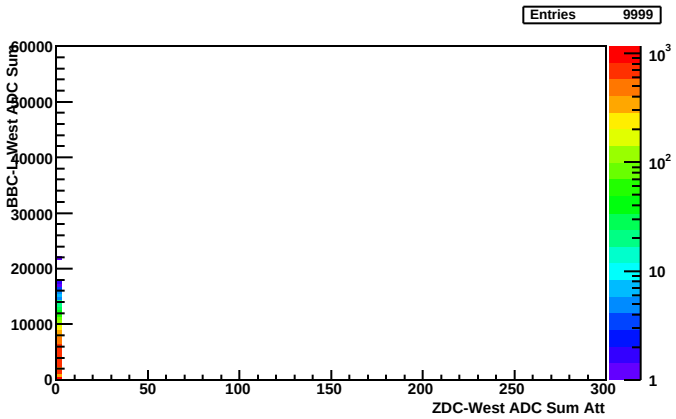

Entries 9999
TOF Mult
ZDC-East ADC Sum Att

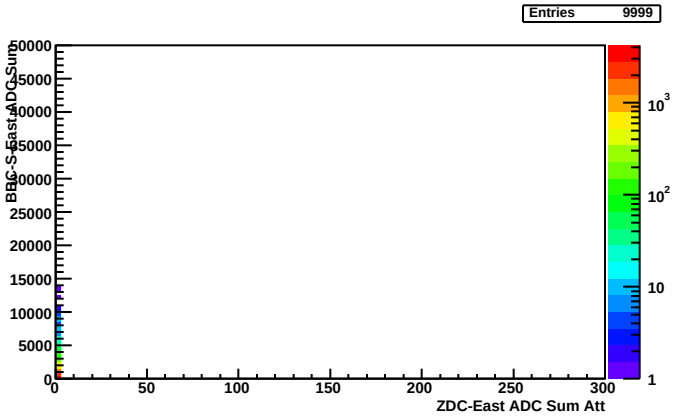

Entries 9999
TOF Mult
ZDC-West ADC Sum Att

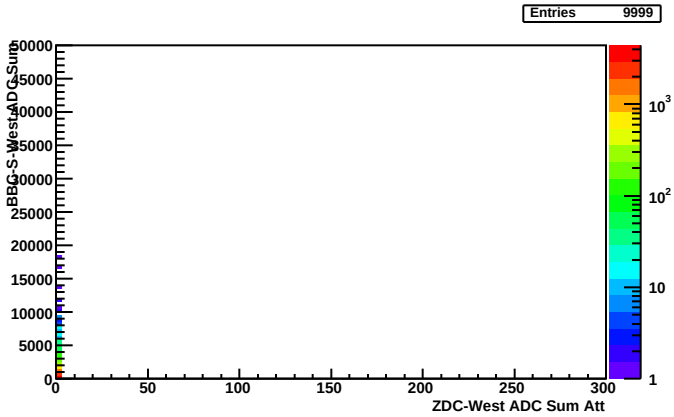

Entries 9999
BBC-L-East ADC Sum
BBC-S-East ADC Sum

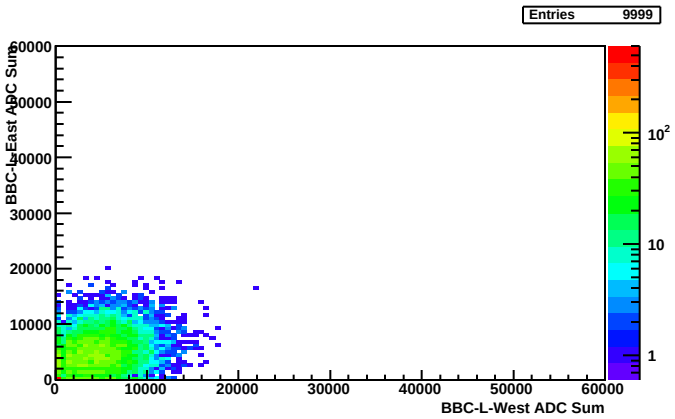

Entries 9999
BBC-L-West ADC Sum
BBC-S-West ADC Sum

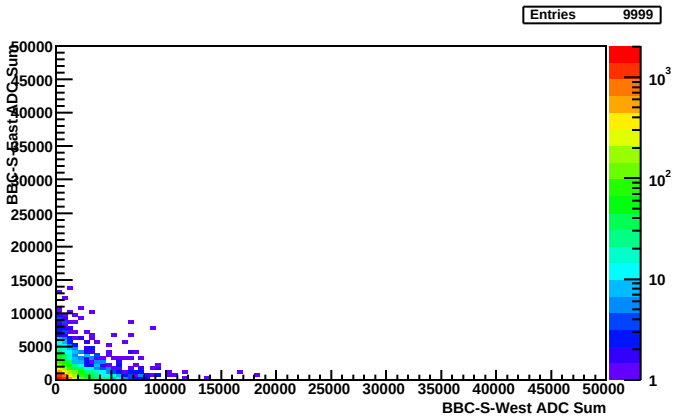

Entries 9999
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

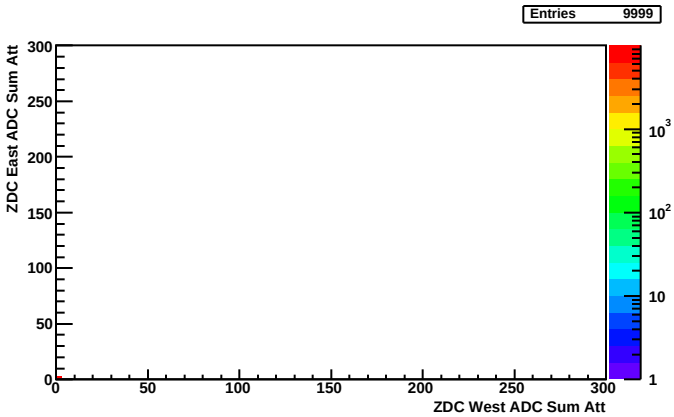

Entries 9999
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

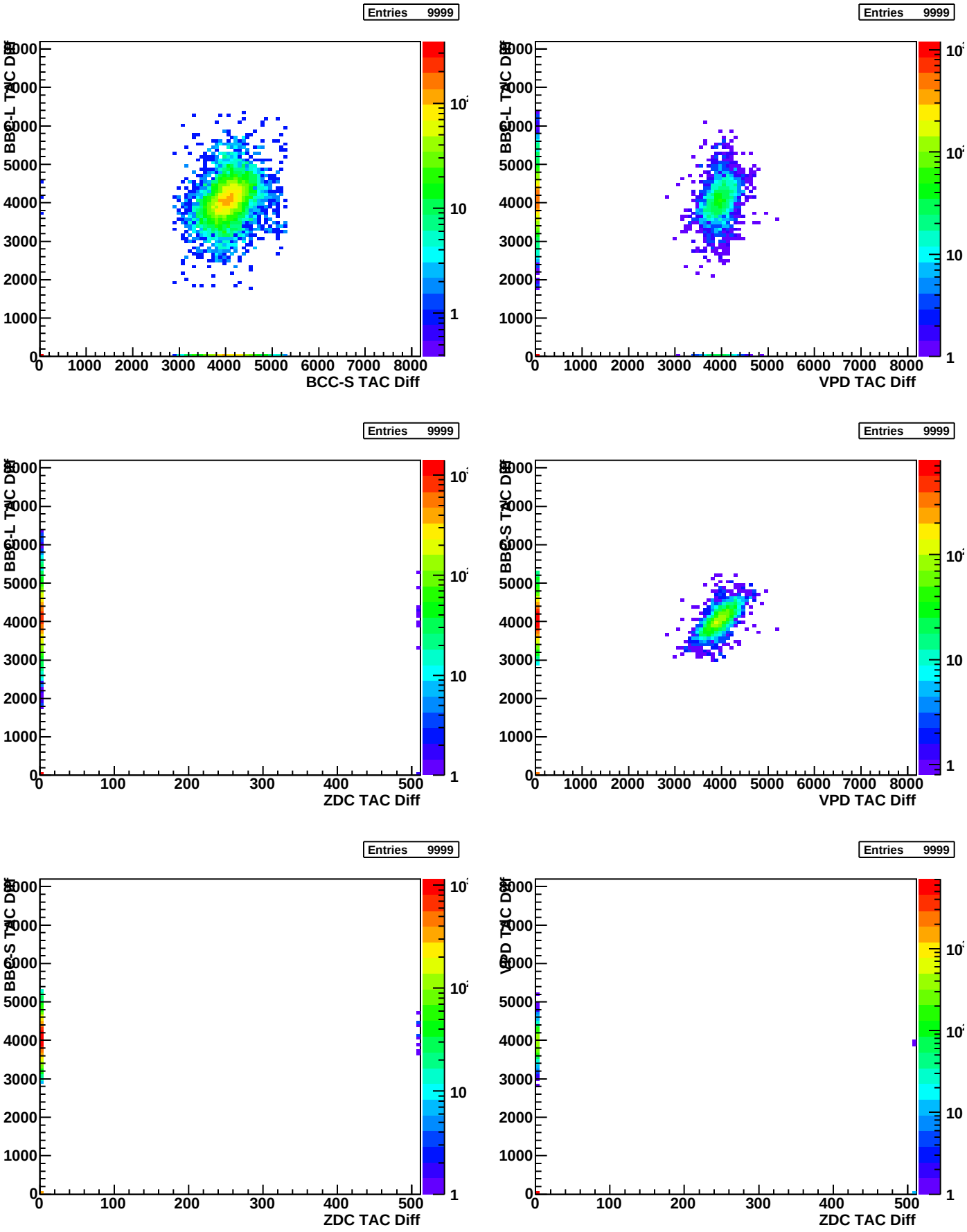

Entries 9999
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

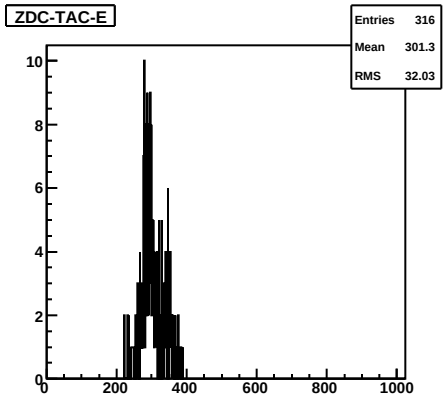

Entries 9999
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

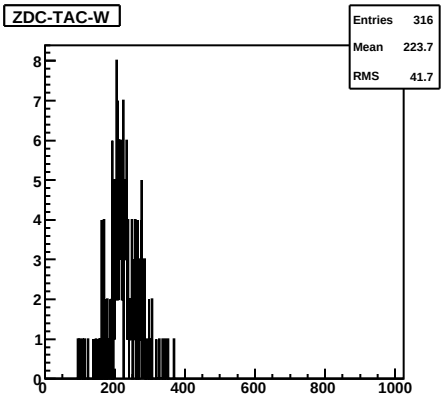

Entries 9999
BBC-L-East ADC Sum
BBC-L-West ADC Sum

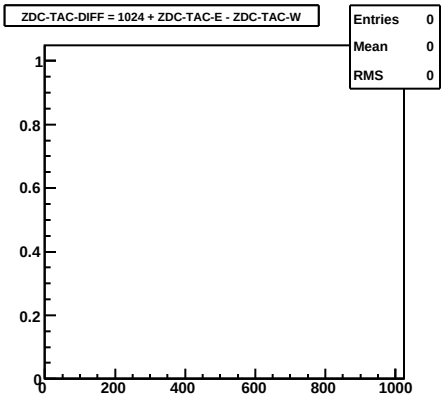

Entries 9999
BBC-S-East ADC Sum
BBC-S-West ADC Sum

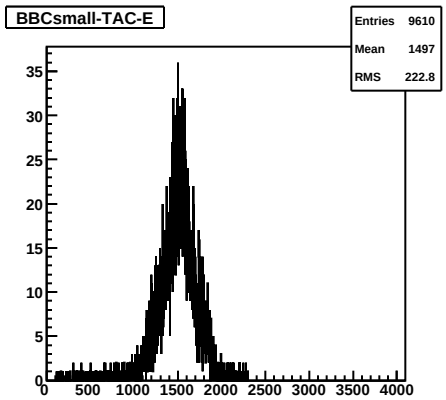

Entries 9999
ZDC East ADC Sum Att
ZDC West ADC Sum Att

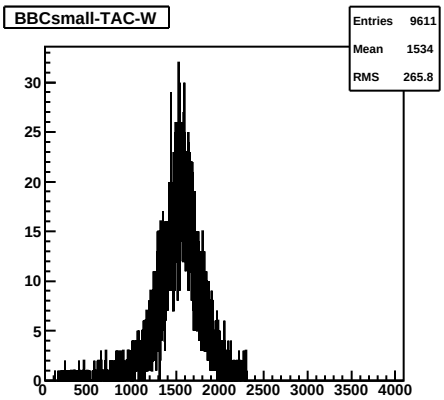

Entries 9999
BBC-L TAC Diff
BCC-S TAC Diff
Entries 9999
BBC-L TAC Diff
VPD TAC Diff
Entries 9999
BBC-L TAC Diff
ZDC TAC Diff
Entries 9999
BBC-S TAC Diff
VPD TAC Diff
Entries 9999
BBC-S TAC Diff
ZDC TAC Diff
Entries 9999
VPD TAC Diff
ZDC TAC Diff

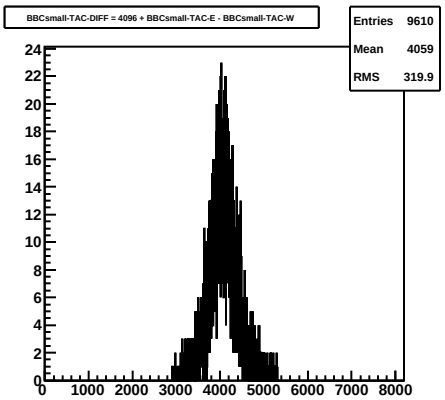

ZDC-TAC-E
Entries 316
Mean 301.3
RMS 32.03

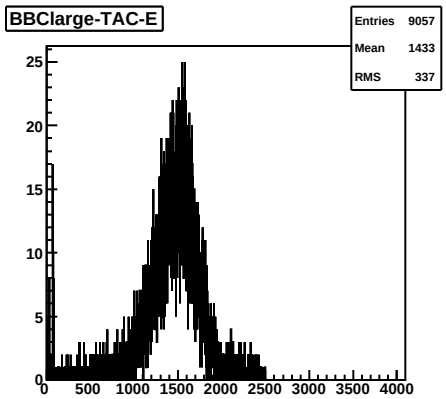

ZDC-TAC-W
Entries 316
Mean 223.7
RMS 41.7

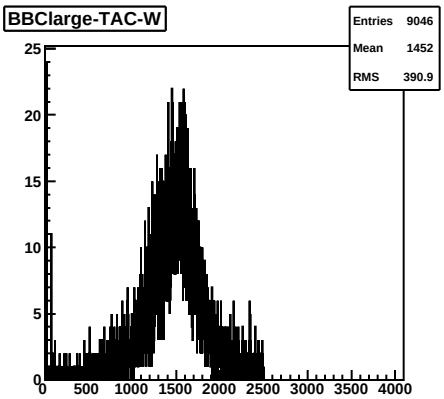

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 0
Mean 0
RMS 0

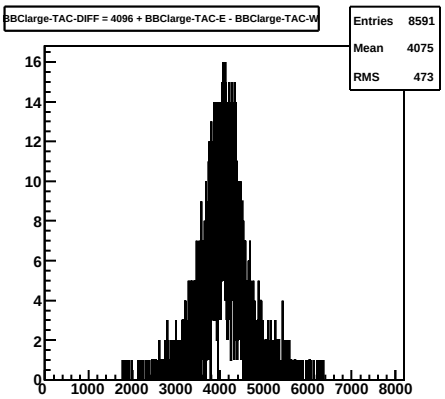

BBCsmall-TAC-E
Entries 9610
Mean 1497
RMS 222.8

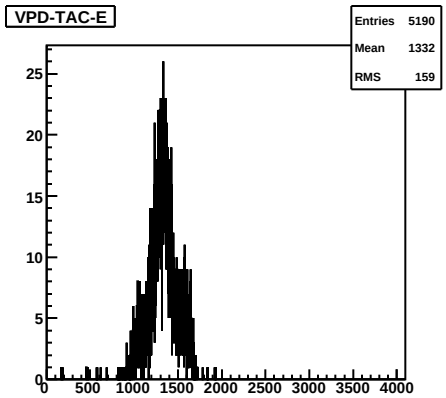

BBCsmall-TAC-W
Entries 9611
Mean 1534
RMS 265.8

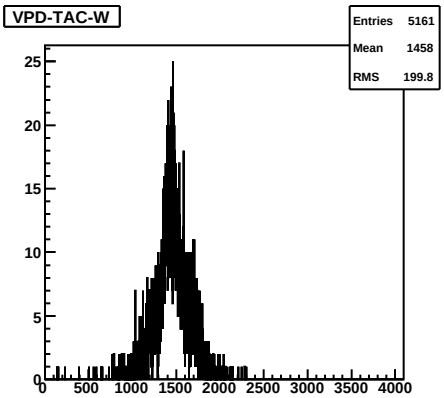

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 9610
Mean 4059
RMS 319.9

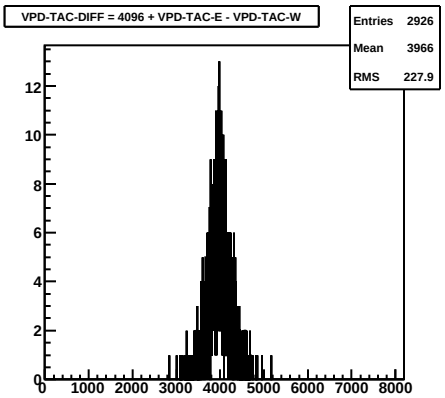

BBClarge-TAC-E
Entries 9057
Mean 1433
RMS 337

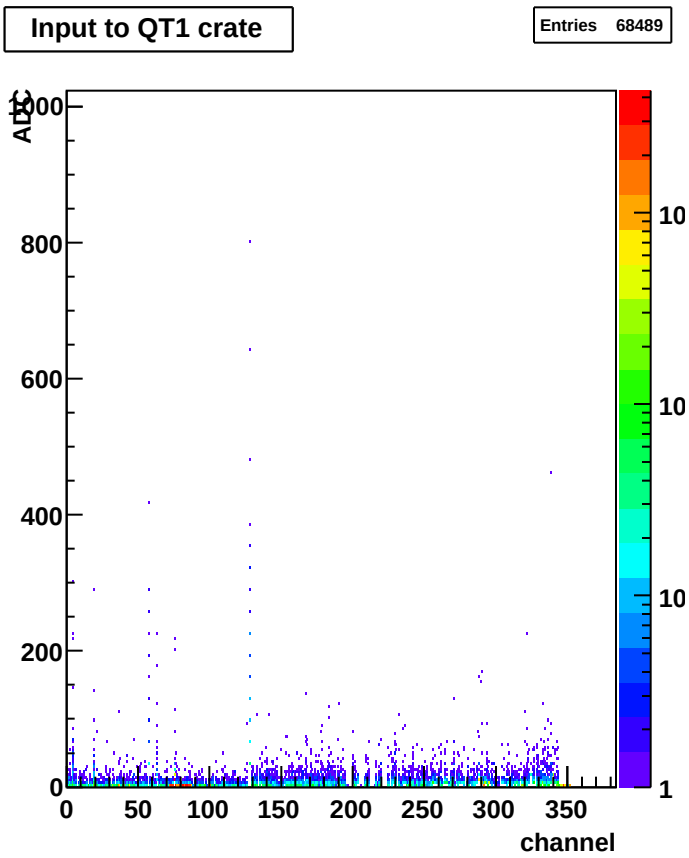

BBClarge-TAC-W
Entries 9046
Mean 1452
RMS 390.9

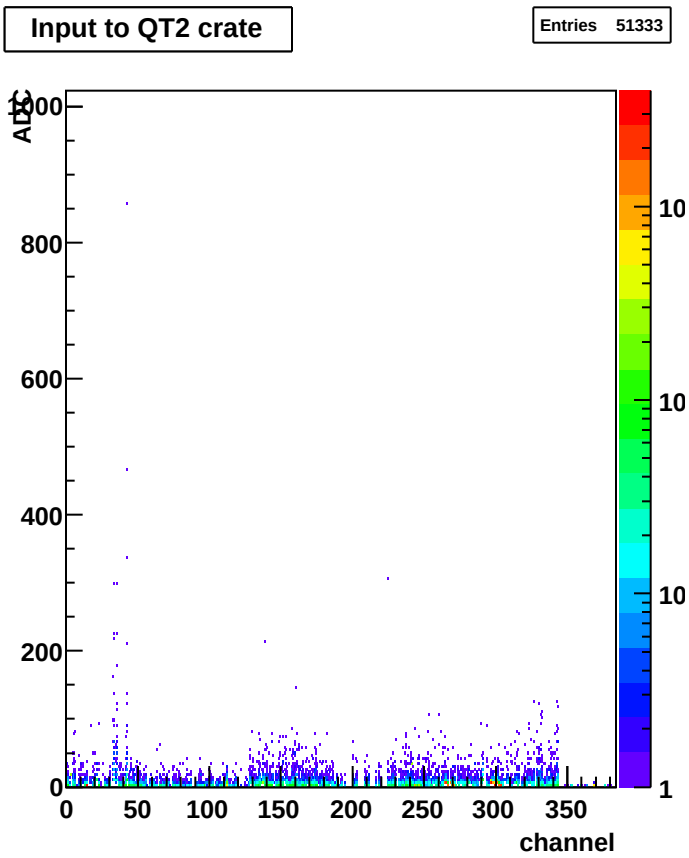

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 8591
Mean 4075
RMS 473

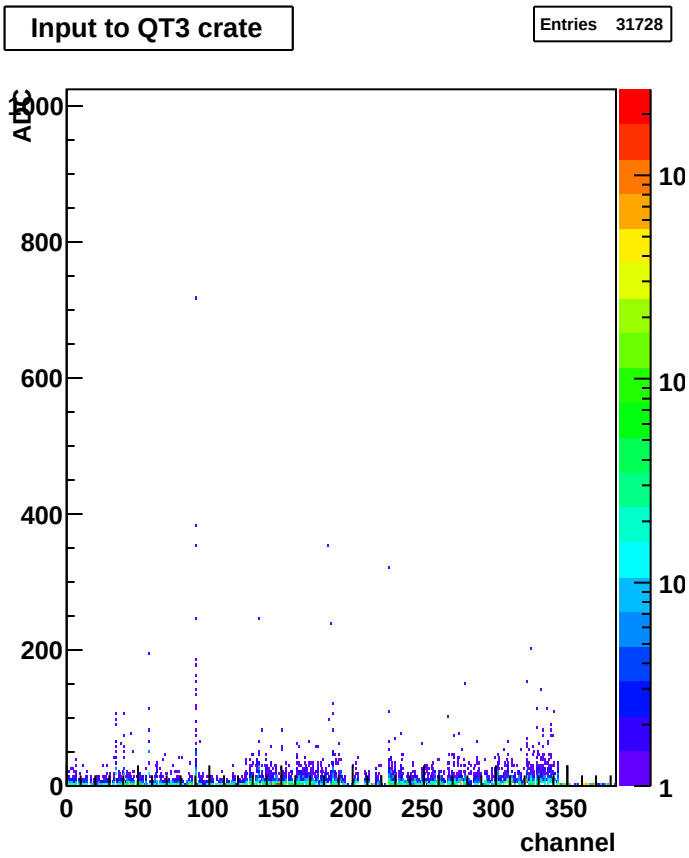

VPD-TAC-E
Entries 5190
Mean 1332
RMS 159

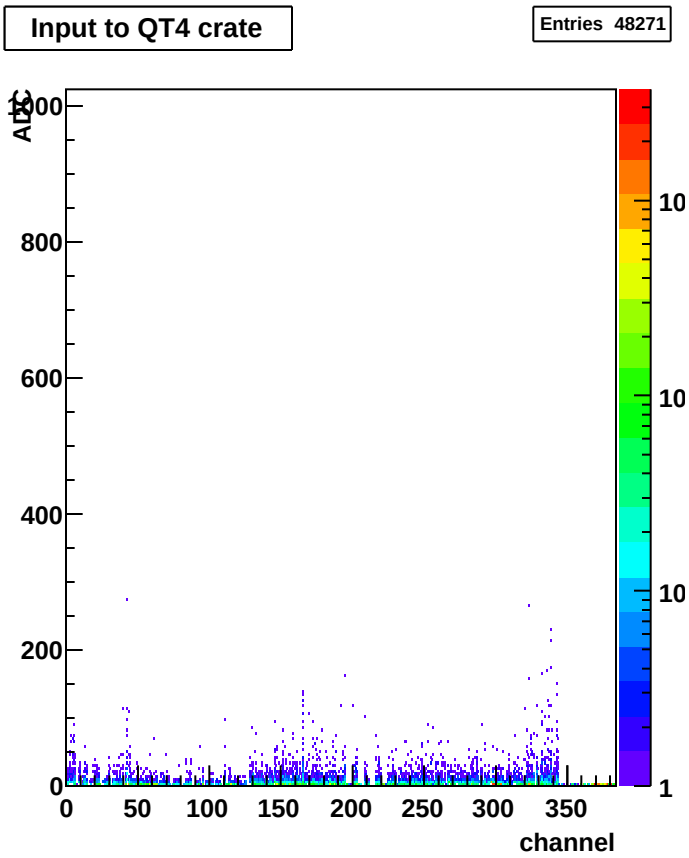

VPD-TAC-W
Entries 5161
Mean 1458
RMS 199.8

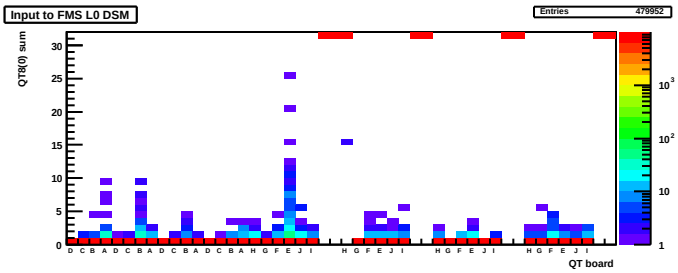

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 2926
Mean 3966
RMS 227.9

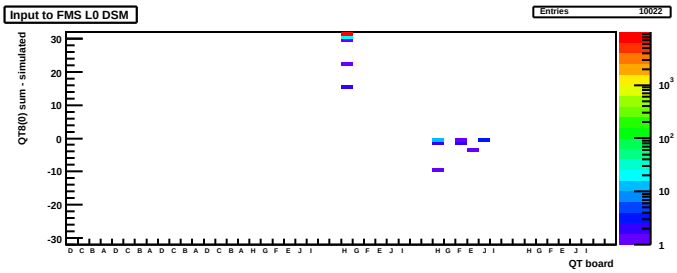

Input to QT1 crate
Entries 68489
ADC
channel

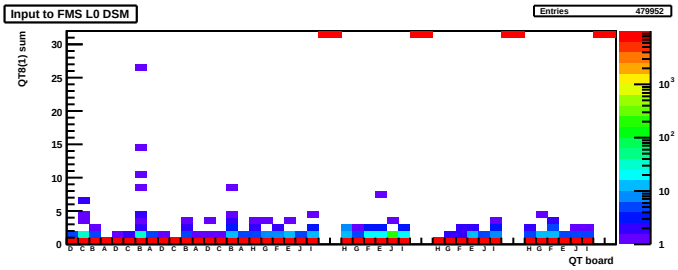

Input to QT2 crate
Entries 51333
ADC
channel

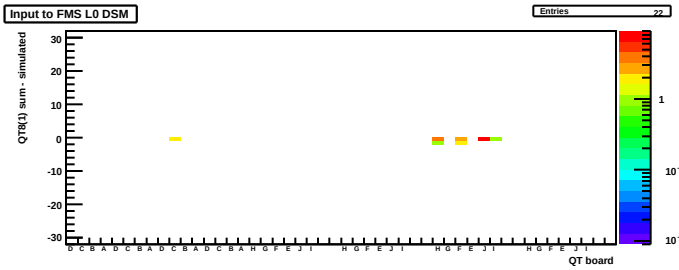

Input to QT3 crate
Entries 31728
ADC
channel

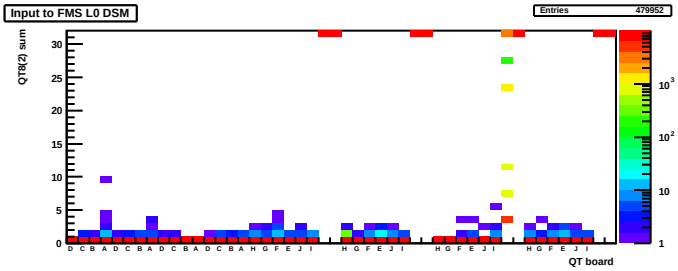

Input to QT4 crate
Entries 48271
ADC
channel

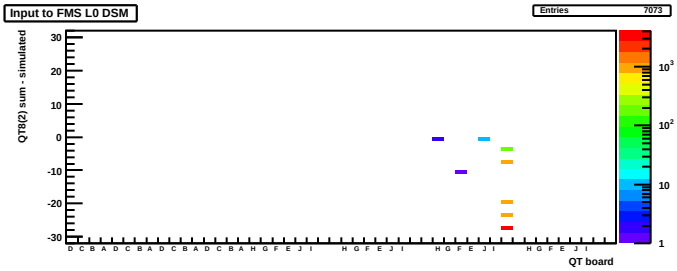

Input to FMS L0 DSM
Entries 479952
QT8(0) sum
QT board

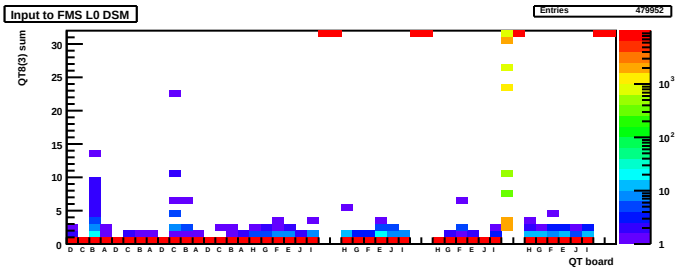

Input to FMS L0 DSM
Entries 10022
QT8(0) sum - simulated
QT board

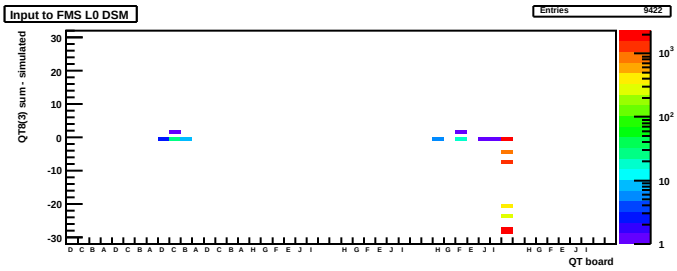

Input to FMS L0 DSM
Entries 479952
QT8(1) sum
QT board

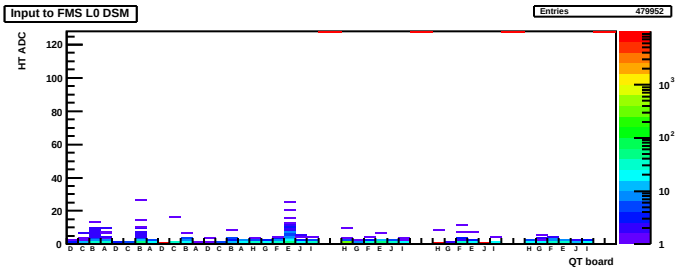

Input to FMS L0 DSM
Entries 22
QT8(1) sum - simulated
QT board

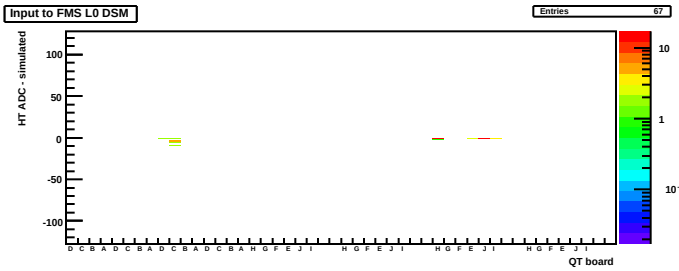

Input to FMS L0 DSM
Entries 479952
QT8(2) sum
QT board

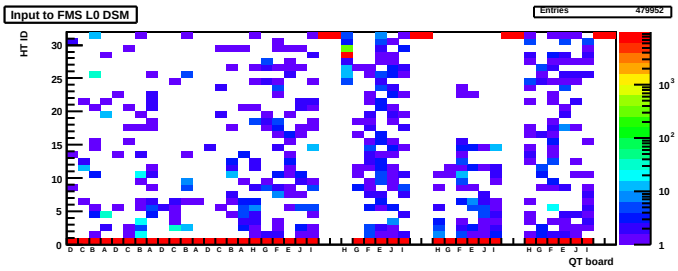

Input to FMS L0 DSM
Entries 7073
QT8(2) sum - simulated
QT board

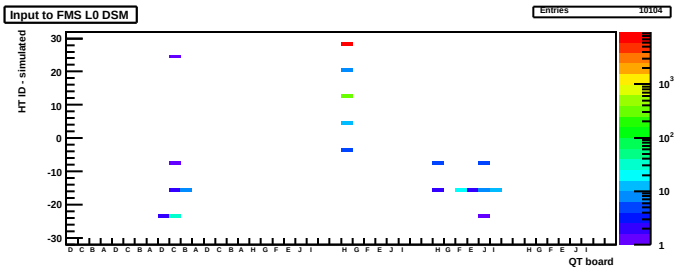

Input to FMS L0 DSM
Entries 479952
QT8(3) sum
QT board

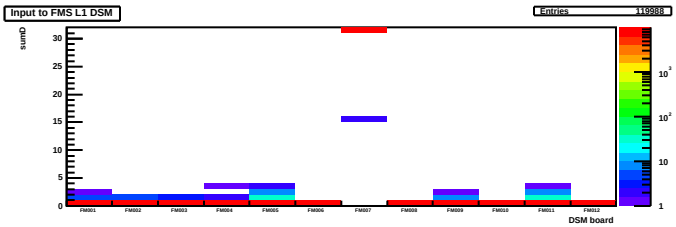

Input to FMS L0 DSM
Entries 9422
QT8(3) sum - simulated
QT board

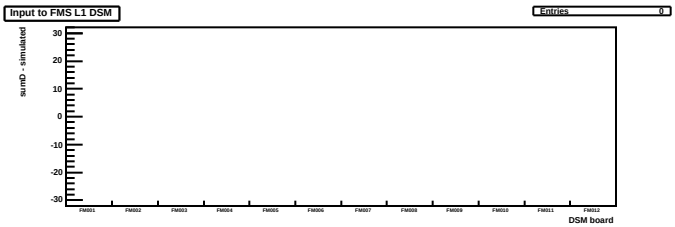

Input to FMS L0 DSM
Entries 479952
HT ADC
QT board

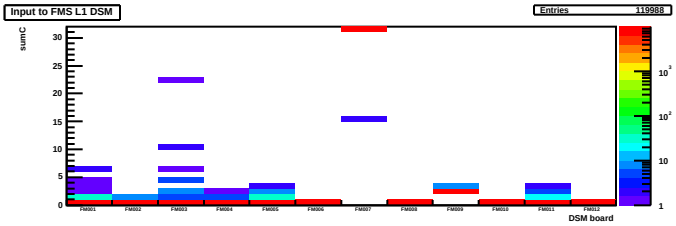

Input to FMS L0 DSM
Entries 67
HT ADC - simulated
QT board

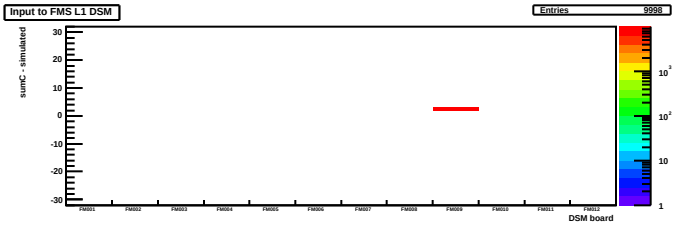

Input to FMS L0 DSM
Entries 479952
HT ID
QT board

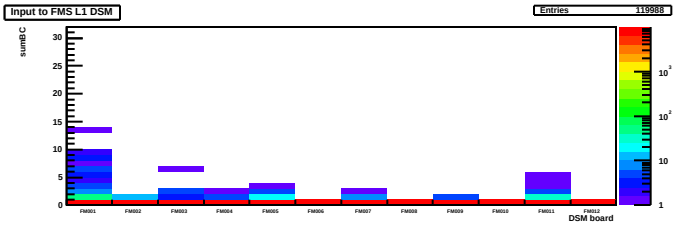

Input to FMS L0 DSM
Entries 10104
HT ID - simulated
QT board

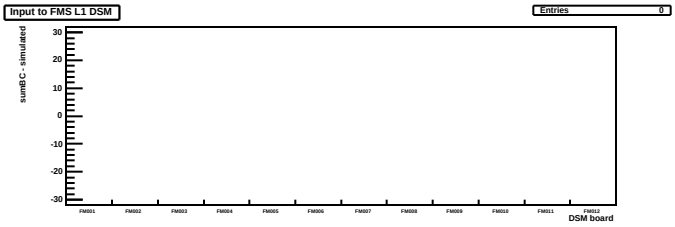

Input to FMS L1 DSM
Entries 119988
sumD
DSM board

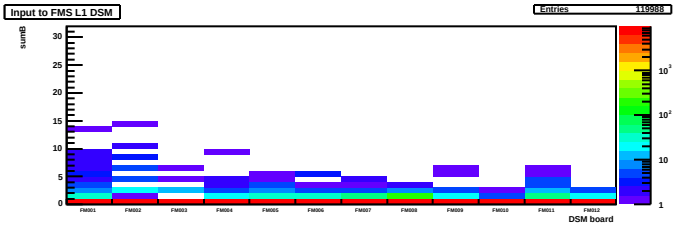

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

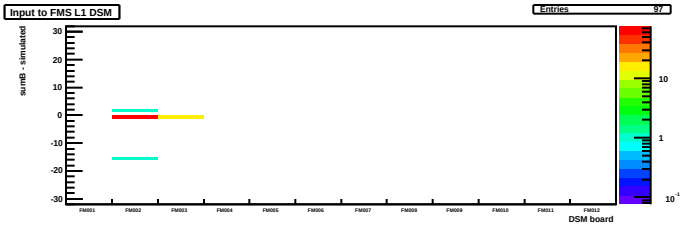

Input to FMS L1 DSM
Entries 119988
sumC
DSM board

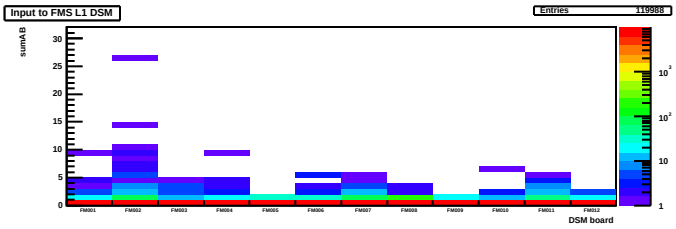

Input to FMS L1 DSM
Entries 9998
sumC - simulated
DSM board

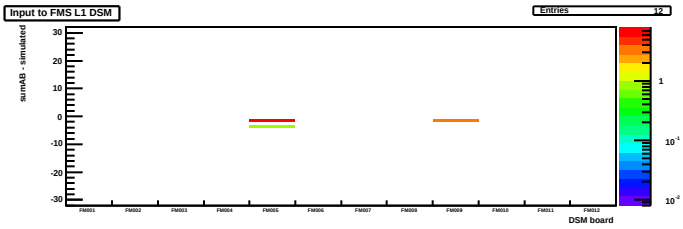

Input to FMS L1 DSM
Entries 119988
sumBC
DSM board

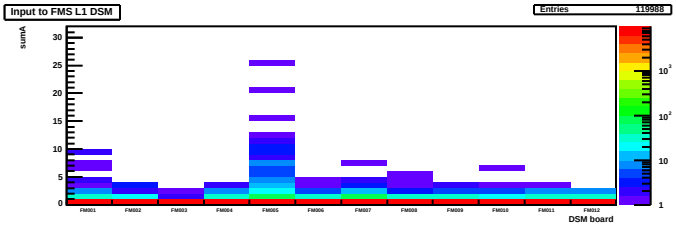

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

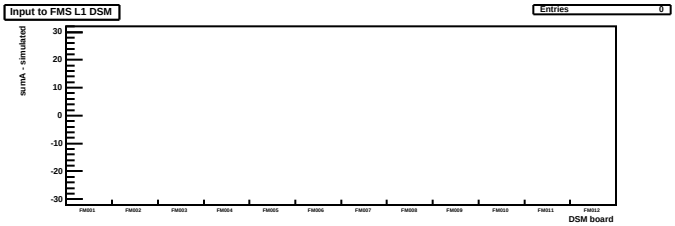

Input to FMS L1 DSM
Entries 119988
sumB
DSM board

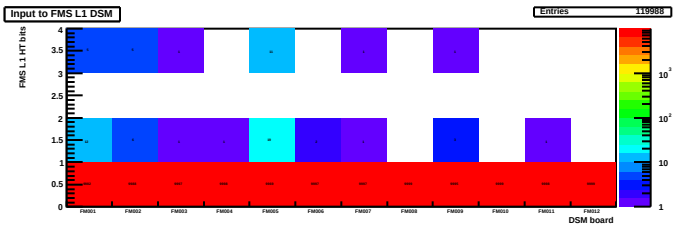

Input to FMS L1 DSM
Entries 97
sumB - simulated
DSM board

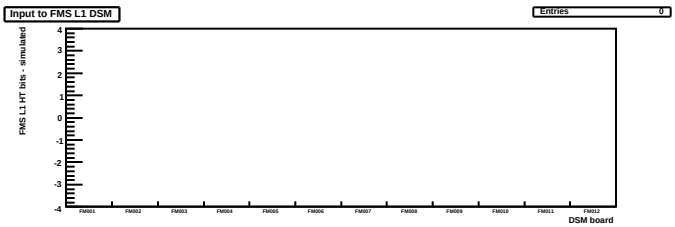

Input to FMS L1 DSM
Entries 119988
sumAB
DSM board

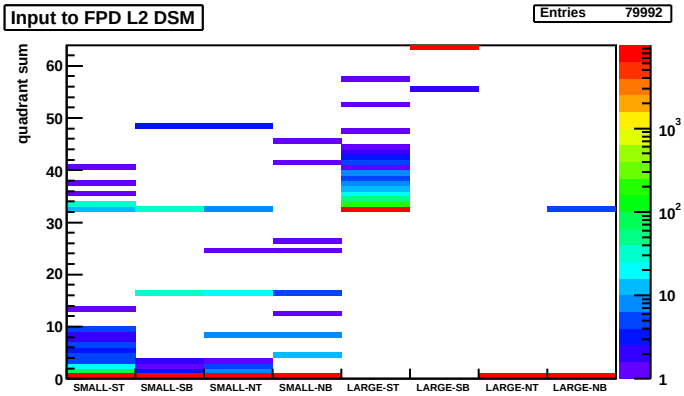

Input to FMS L1 DSM
Entries 12
sumAB - simulated
DSM board

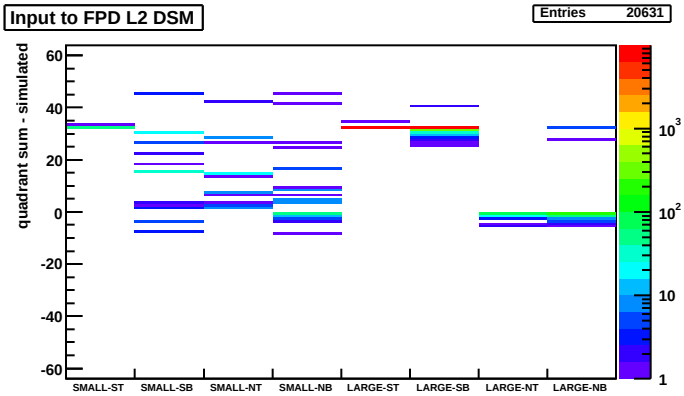

Input to FMS L1 DSM
Entries 119988
sumA
DSM board

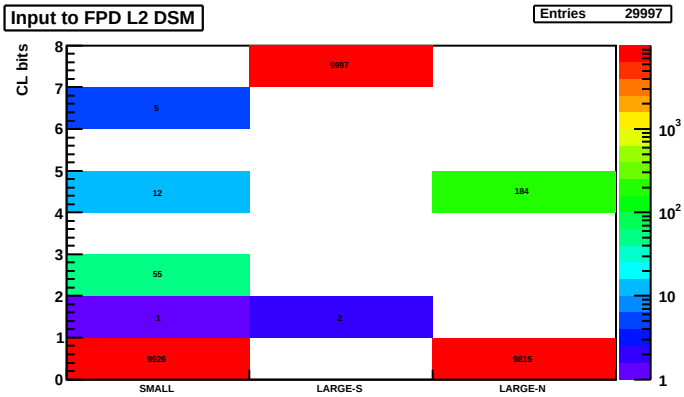

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

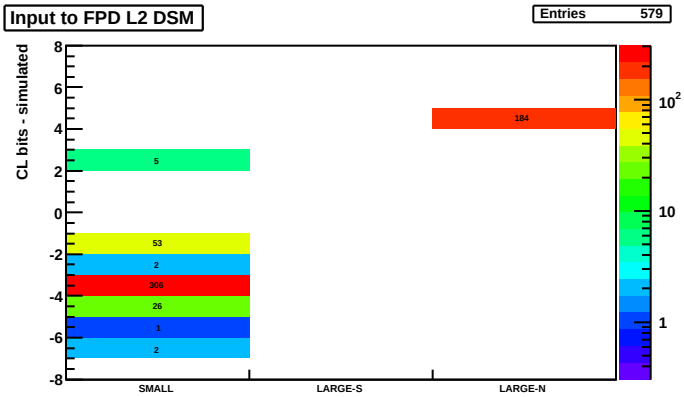

Input to FMS L1 DSM
Entries 119988
FMS L1 HT bits
DSM board

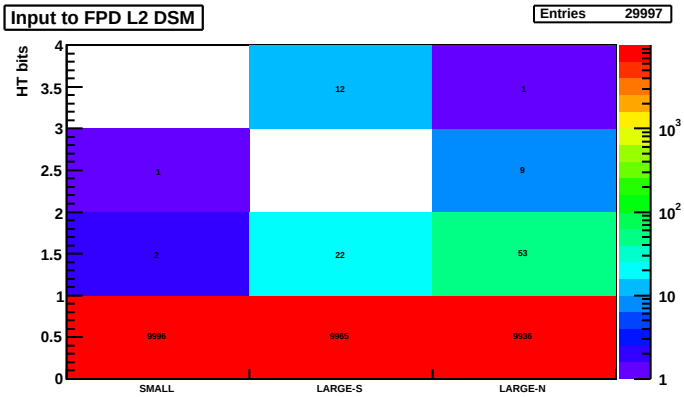

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

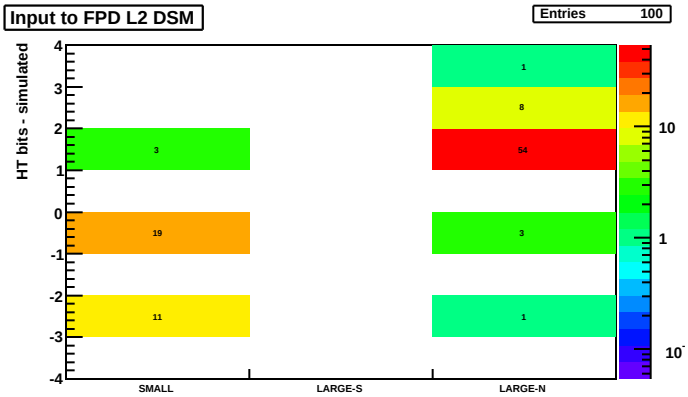

Input to FPD L2 DSM
Entries 79992
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

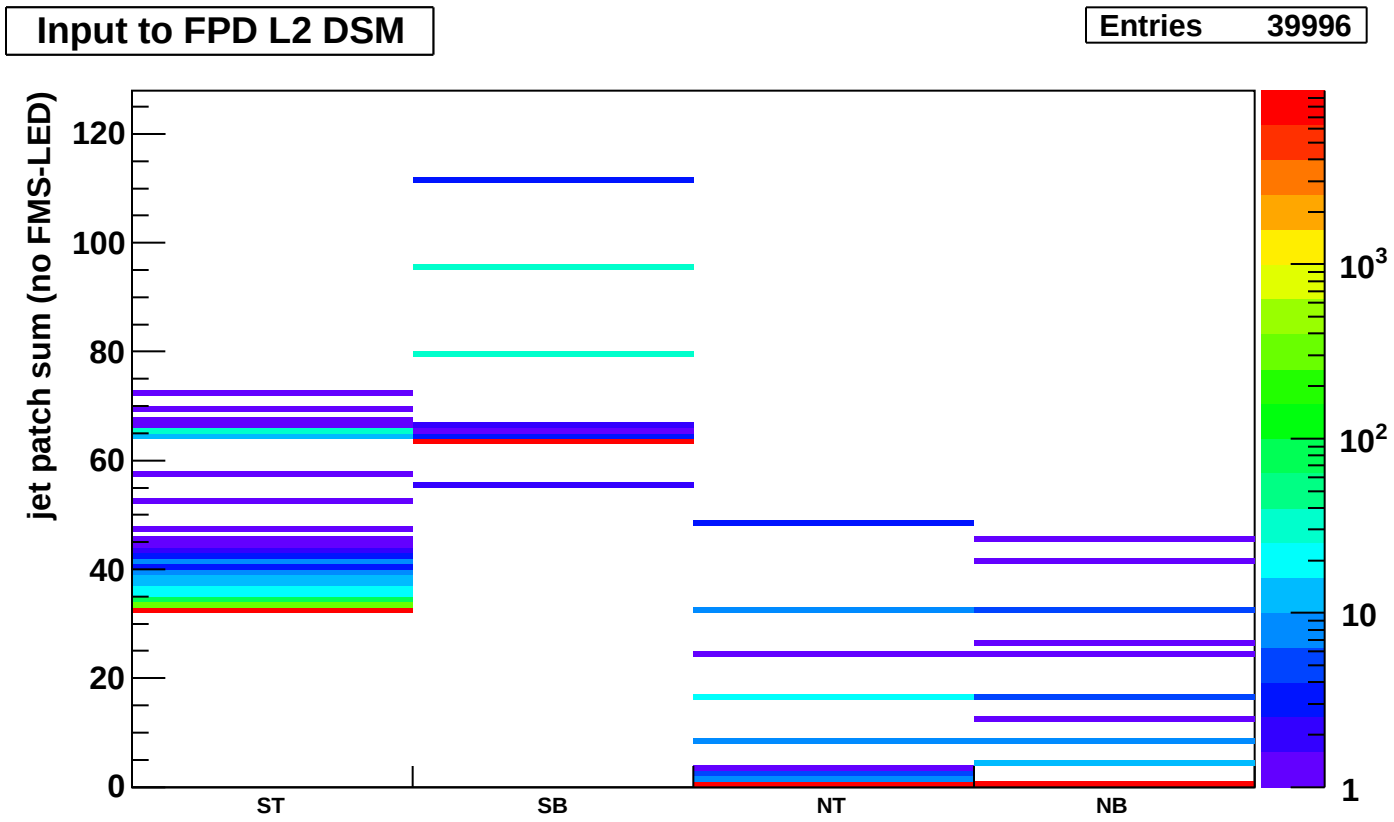

Input to FPD L2 DSM
Entries 20631
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

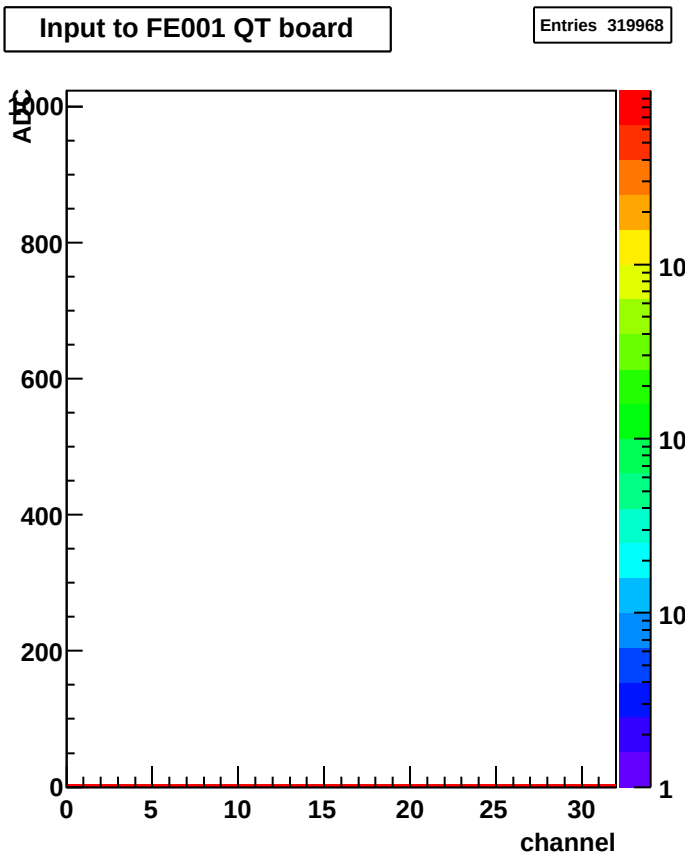

Input to FPD L2 DSM
Entries 29997
CL bits
9997
5
12
184
55
1
2
9926
9815
SMALL
LARGE-S
LARGE-N

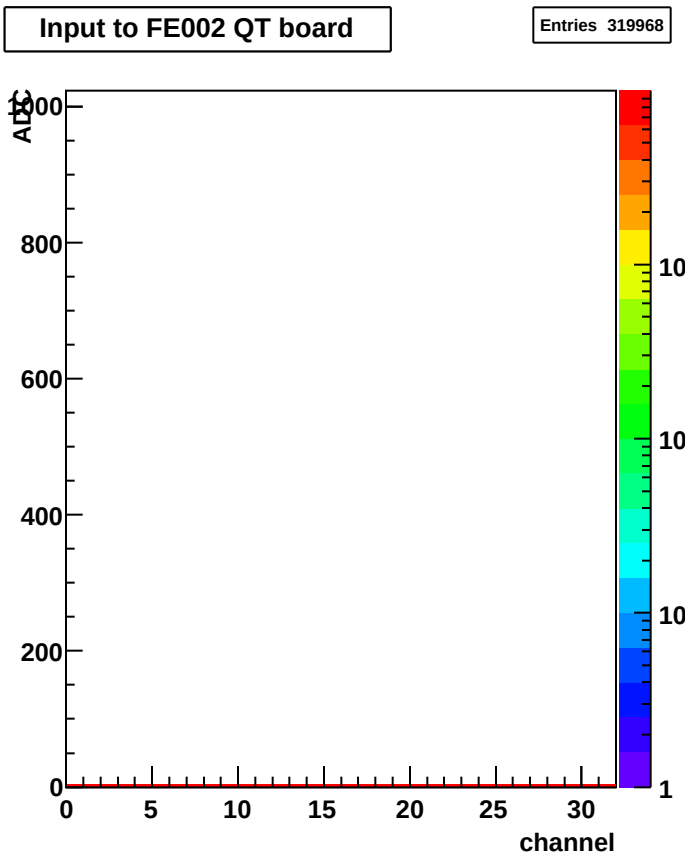

Input to FPD L2 DSM
Entries 579
CL bits - simulated
184
5
53
2
306
26
1
2
SMALL
LARGE-S
LARGE-N

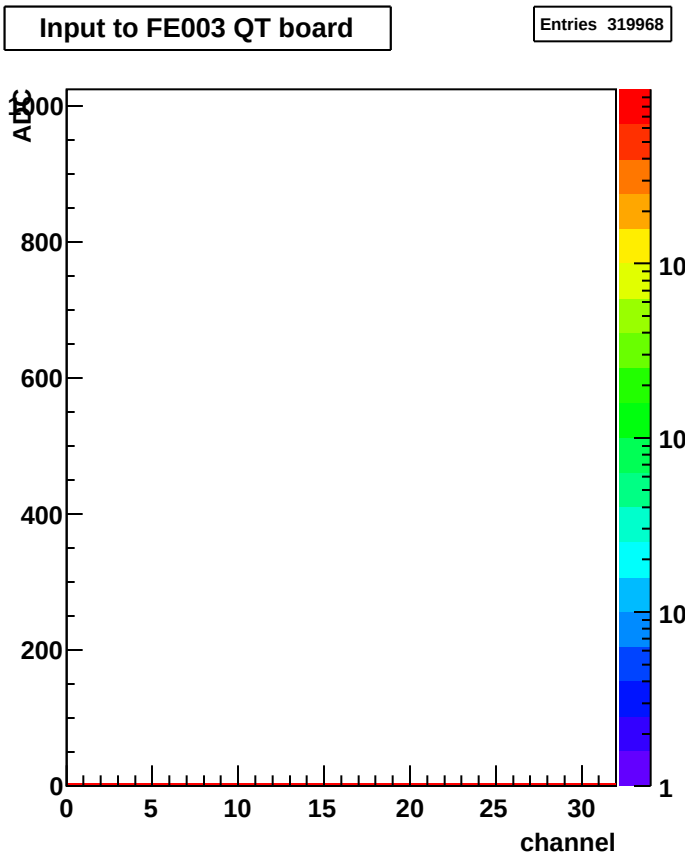

Input to FPD L2 DSM
Entries 29997
HT bits
12
1
1
9
2
22
53
9996
9965
9936
SMALL
LARGE-S
LARGE-N

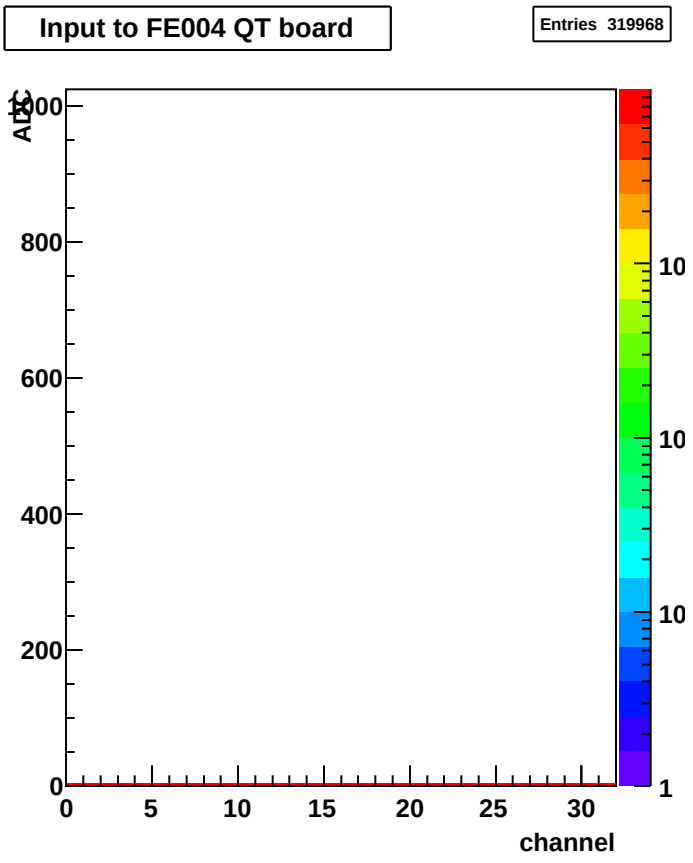

Input to FPD L2 DSM
Entries 100
HT bits - simulated
1
8
3
54
19
3
11
1
SMALL
LARGE-S
LARGE-N

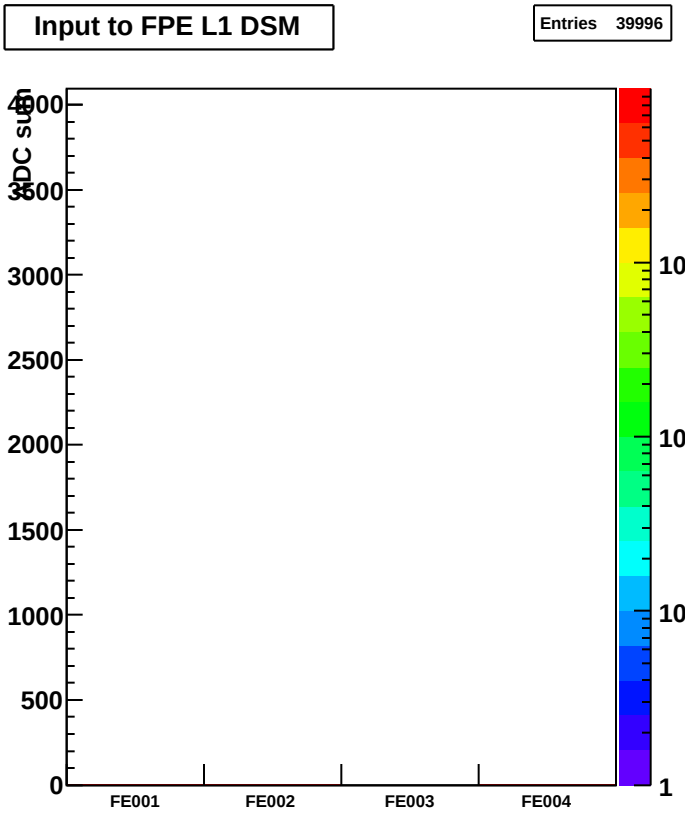

Input to FPD L2 DSM
Entries 39996
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3

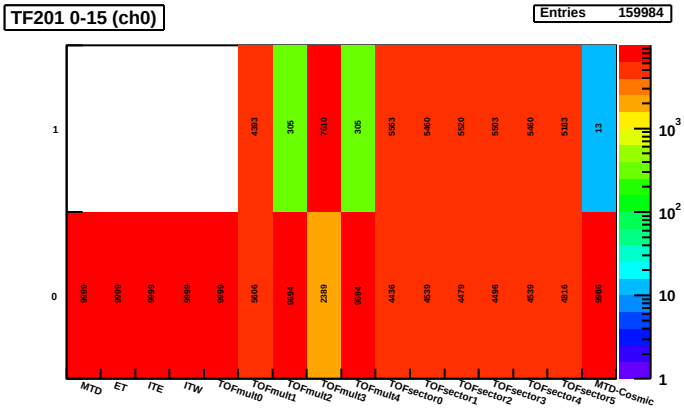

Input to FE001 QT board
Entries 319968
ADC
channel

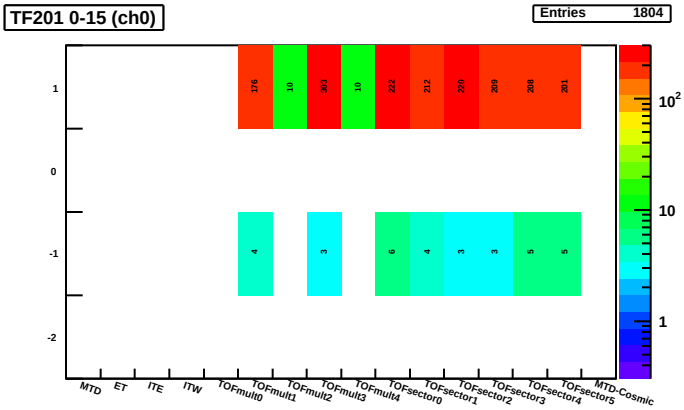

Input to FE002 QT board
Entries 319968
ADC
channel

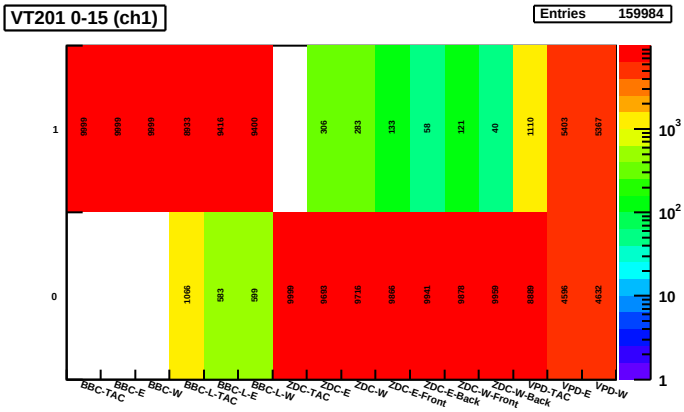

Input to FE003 QT board
Entries 319968
ADC
channel

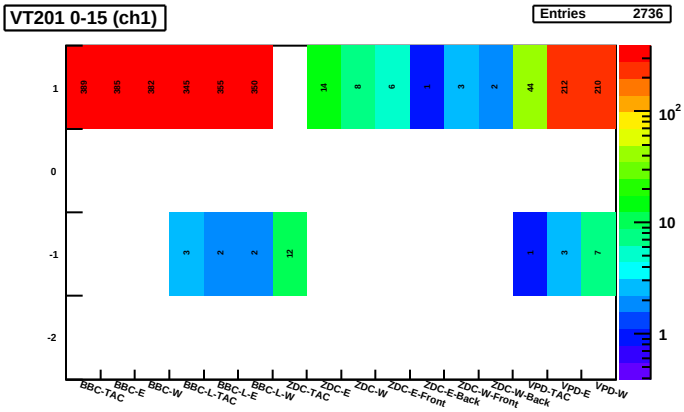

Input to FE004 QT board
Entries 319968
ADC
channel

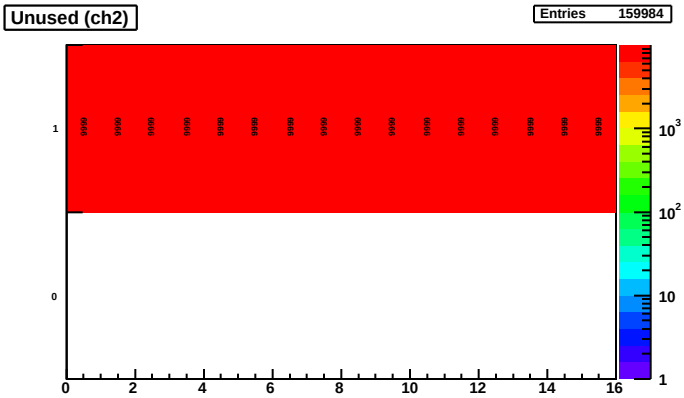

Input to FPE L1 DSM
Entries 39996
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
1

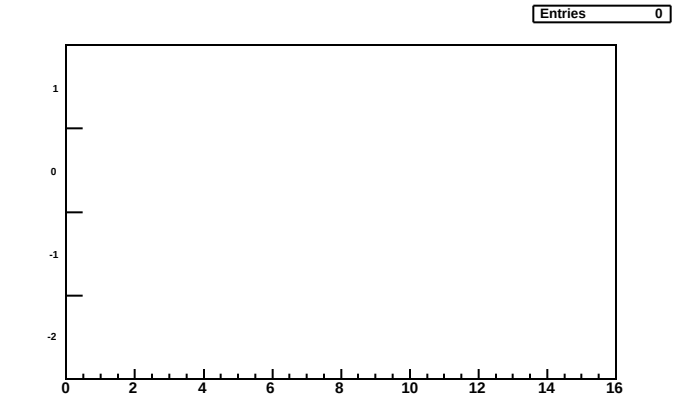

TF201 0-15 (ch0)
Entries 159984
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

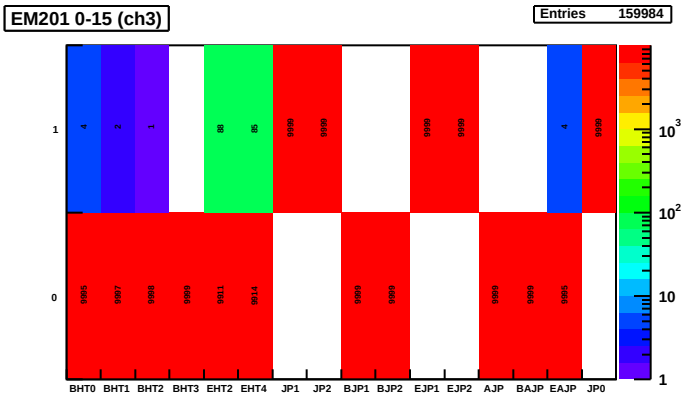

TF201 0-15 (ch0)
Entries 1804
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

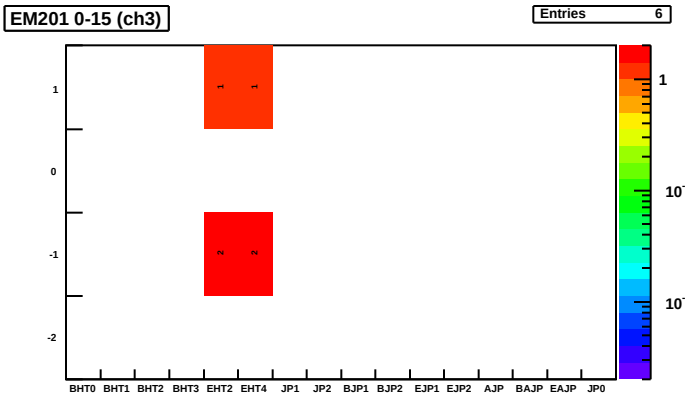

VT201 0-15 (ch1)
Entries 159984
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 2736
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

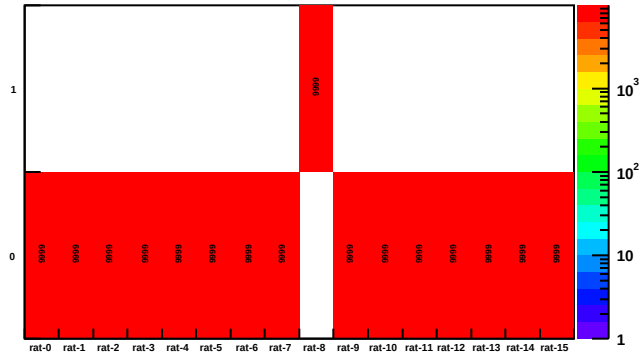

Unused (ch2)
Entries 159984

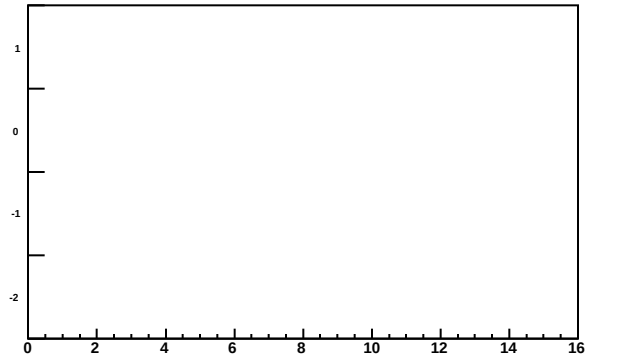

Entries 0


EM201 0-15 (ch3)
Entries 159984
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

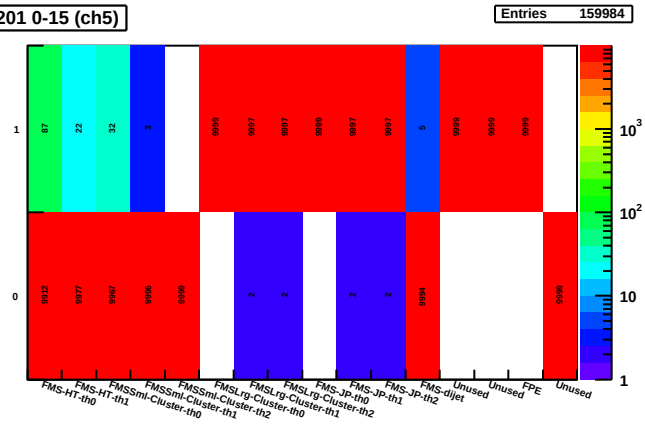

EM201 0-15 (ch3)
Entries 6
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

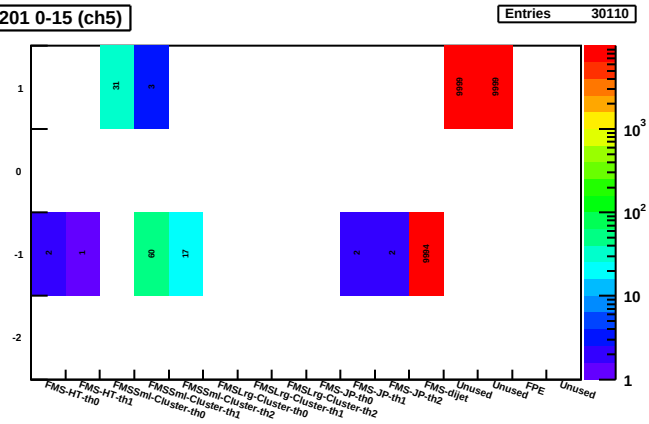




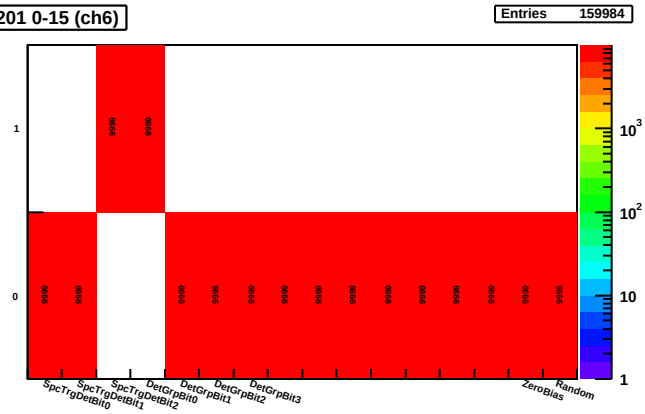
FP201 0-15 (ch5)

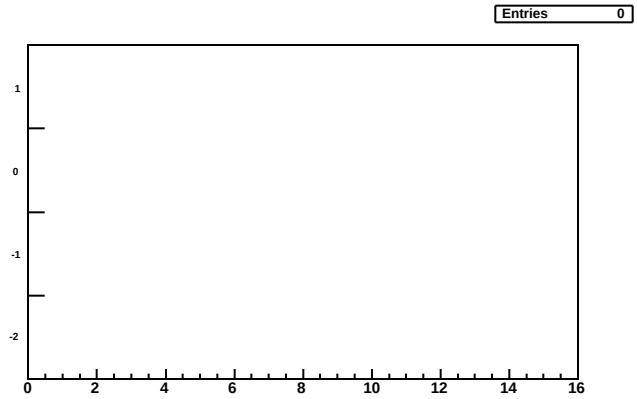
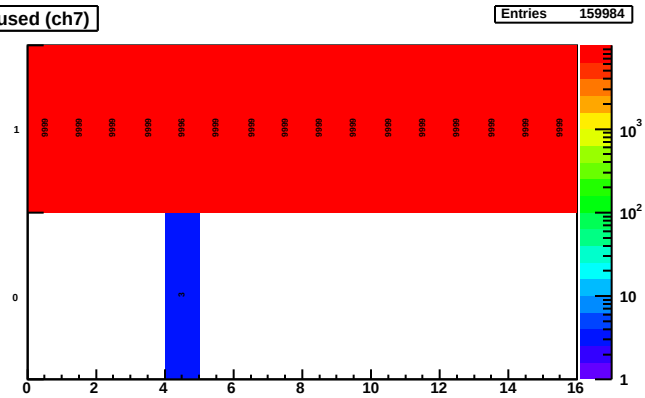
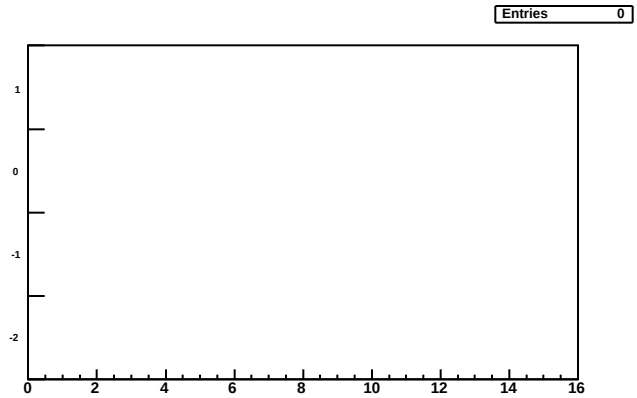


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)