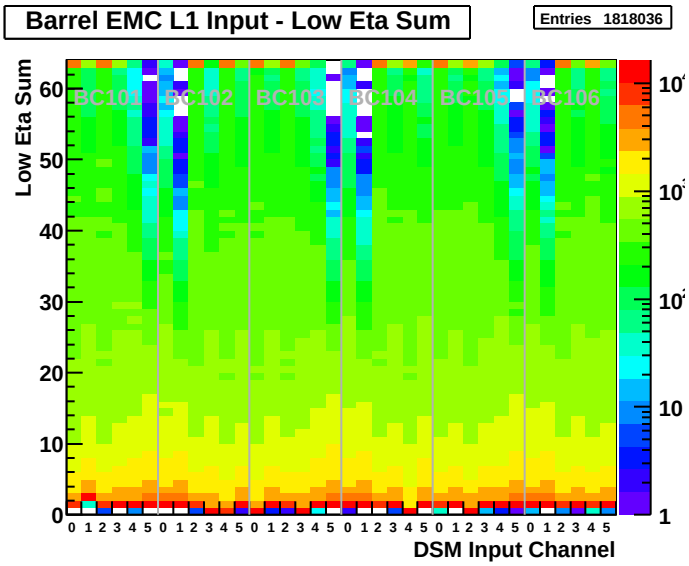
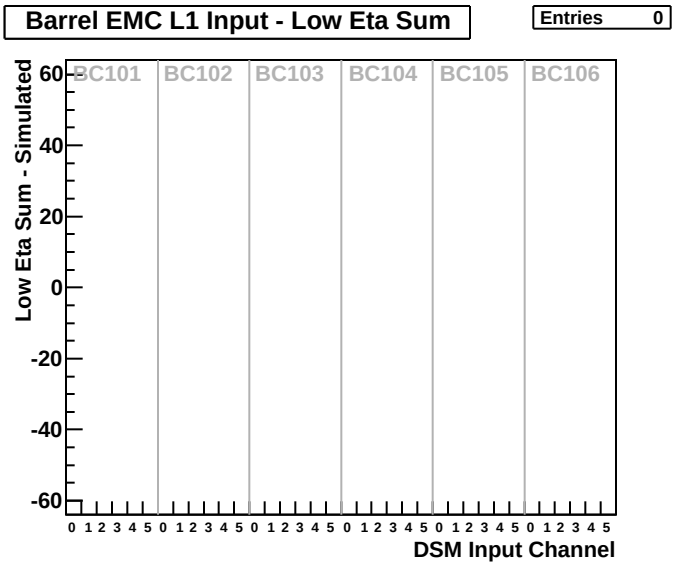
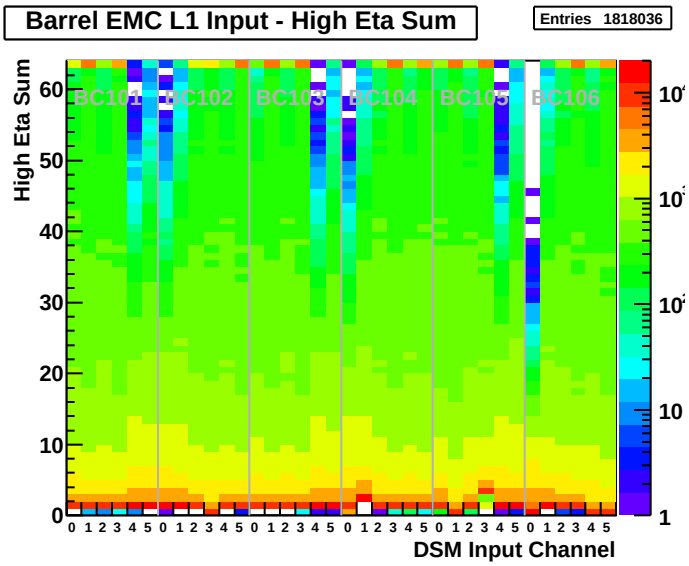
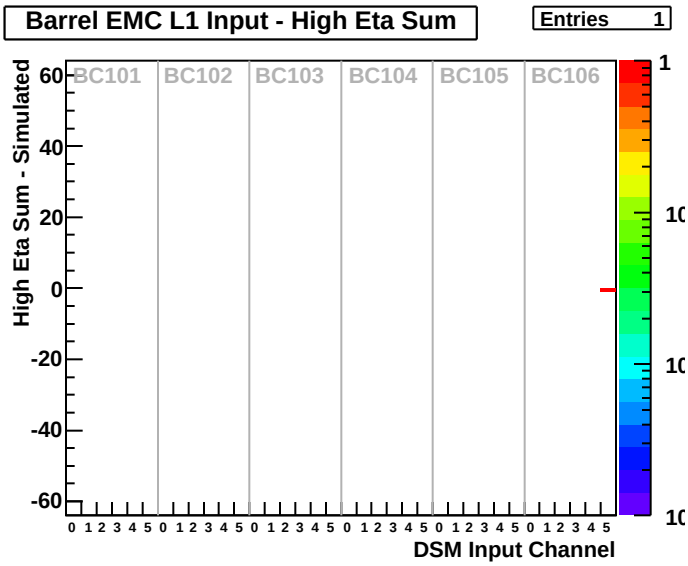
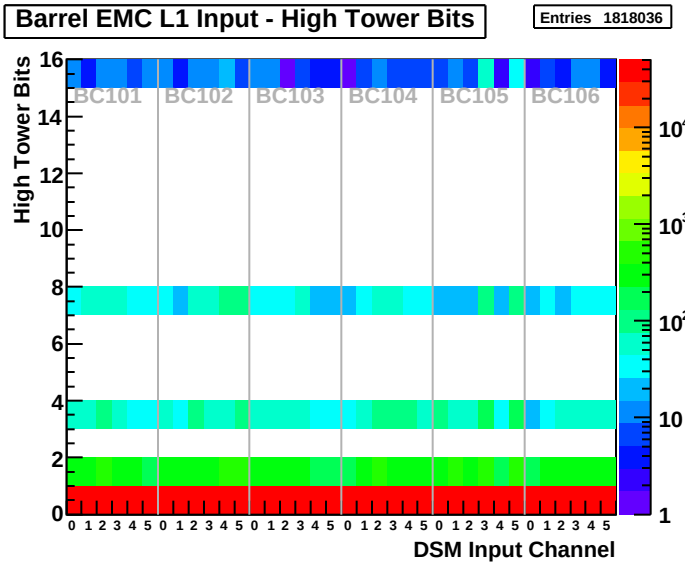
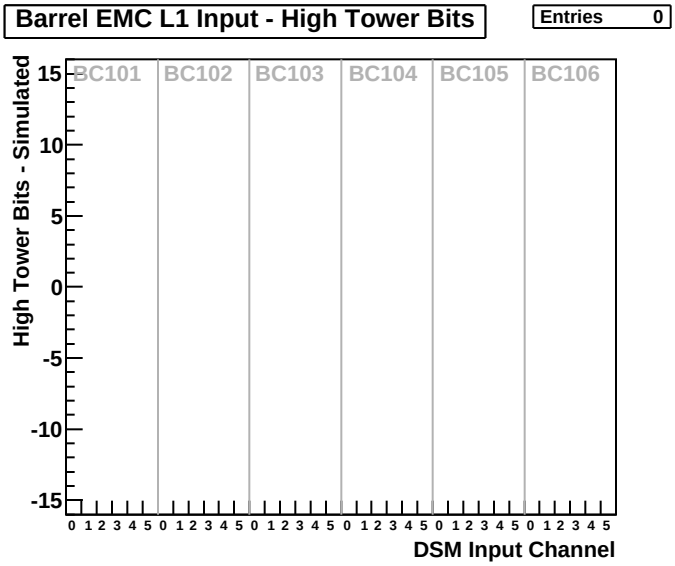

Barrel EMC L1 Input - Low Eta Sum
Entries 1818036
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

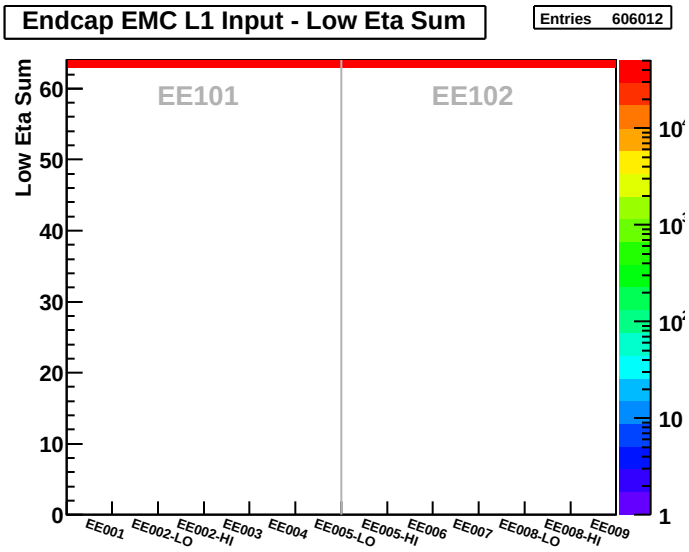

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

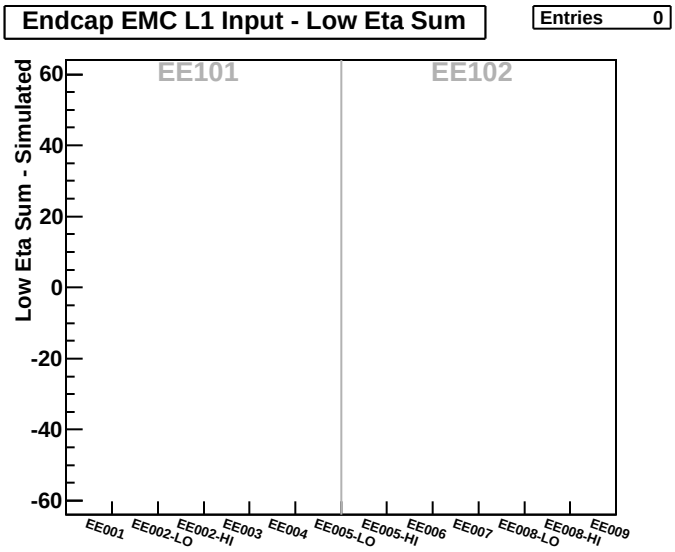

Barrel EMC L1 Input - High Eta Sum
Entries 1818036
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

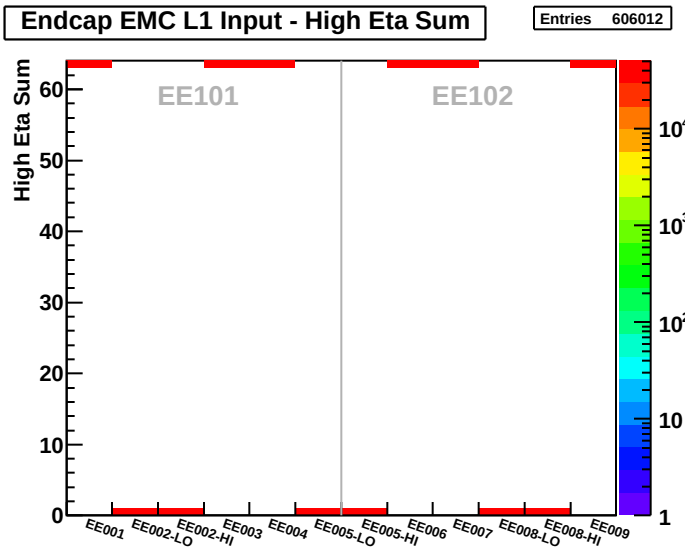

Barrel EMC L1 Input - High Eta Sum
Entries 1
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

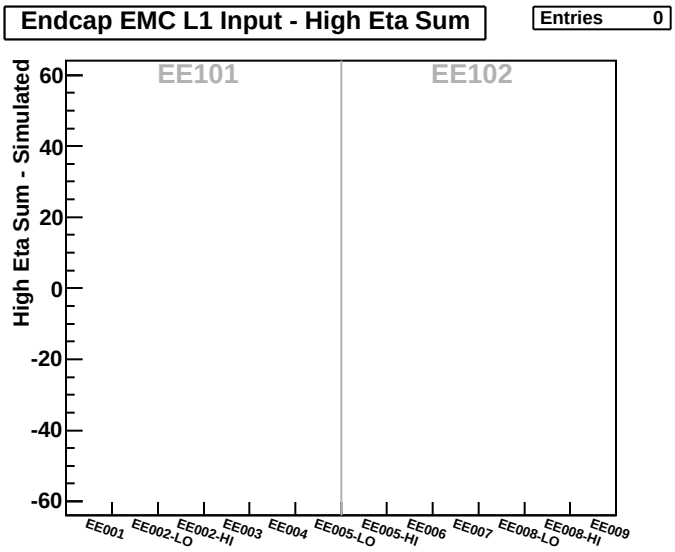

Barrel EMC L1 Input - High Tower Bits
Entries 1818036
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

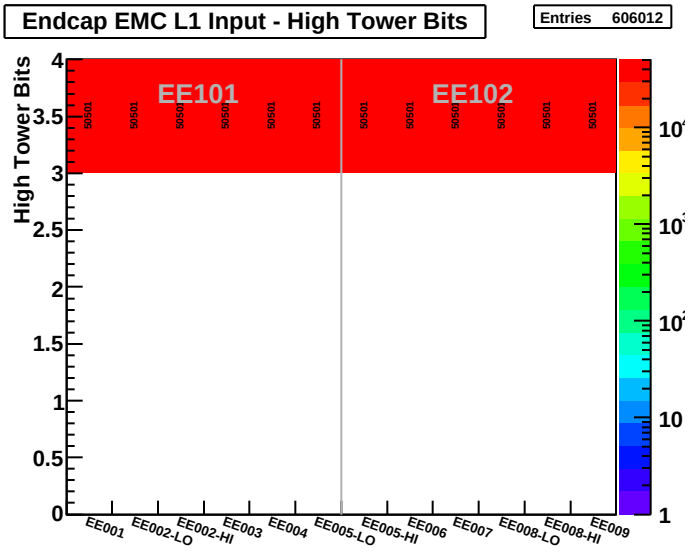

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

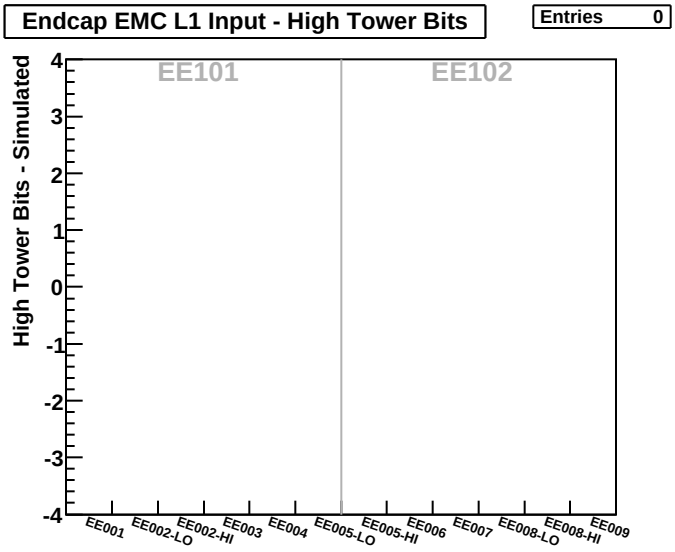

Endcap EMC L1 Input - Low Eta Sum
Entries 606012
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

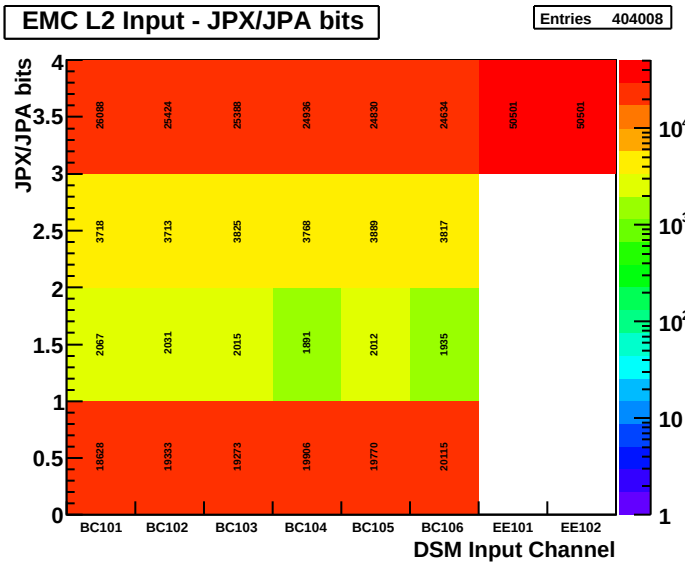

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

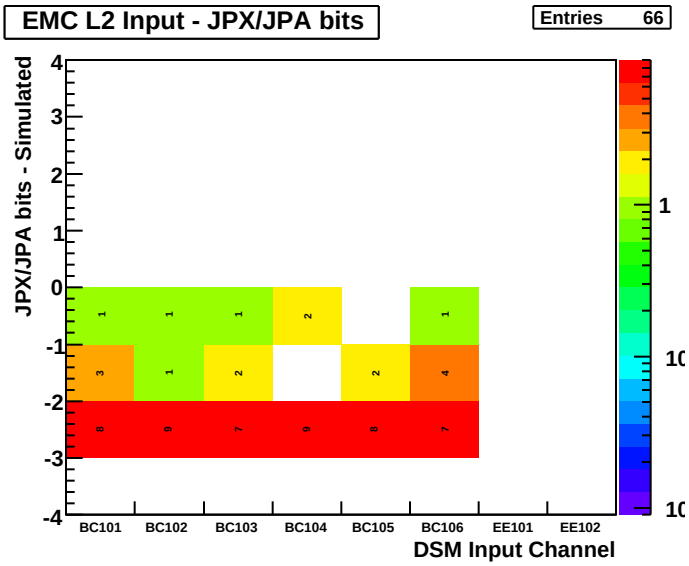

Endcap EMC L1 Input - High Eta Sum
Entries 606012
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

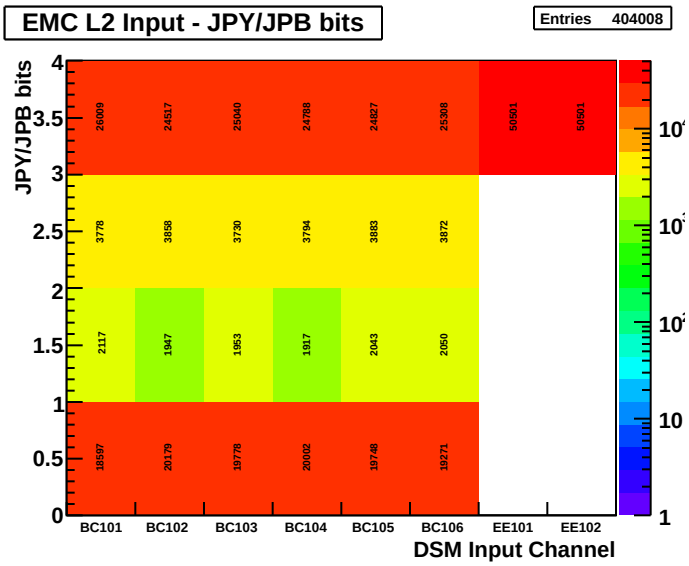

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

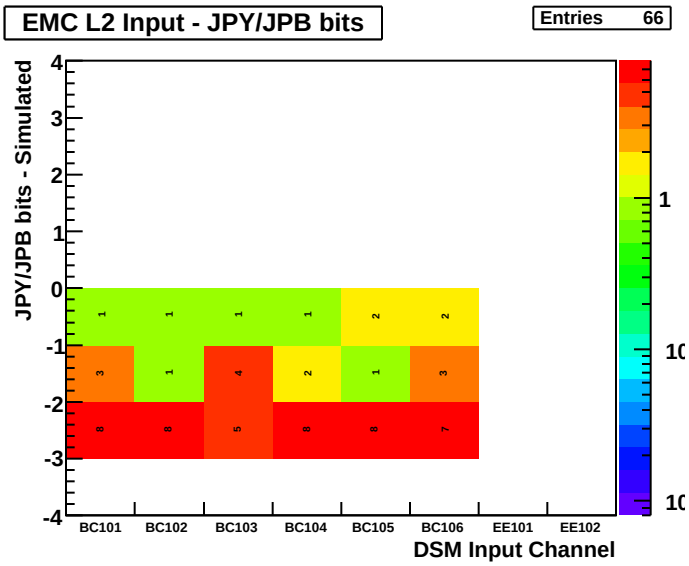

Endcap EMC L1 Input - High Tower Bits
Entries 606012
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

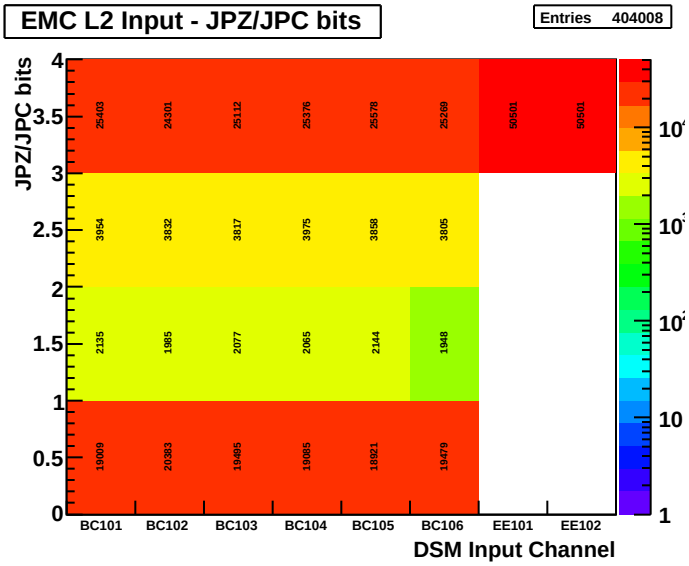

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

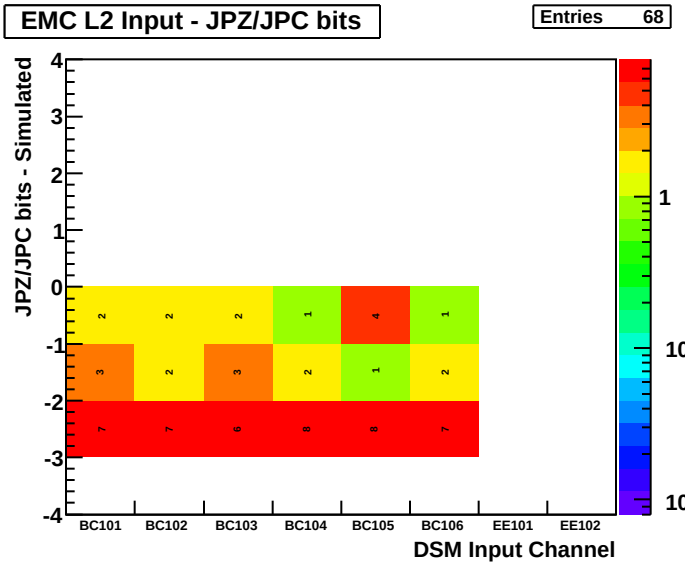

EMC L2 Input - JPX/JPA bits
Entries 404008
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
26088 25424 25388 24936 24830 24634 50501 50501
3718 3713 3825 3768 3889 3817
2067 2031 2015 1891 2012 1935
18628 19333 19273 19906 19770 20115

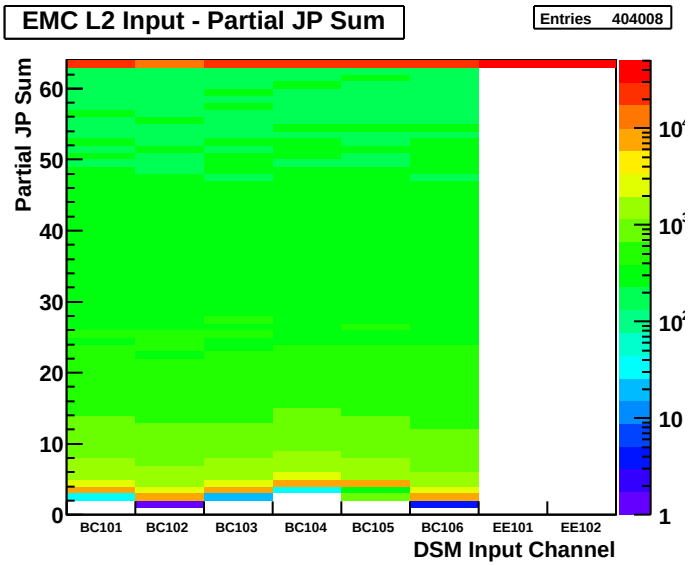

EMC L2 Input - JPX/JPA bits
Entries 66
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 1 2 1
3 1 2 2 4
8 9 7 9 8 7

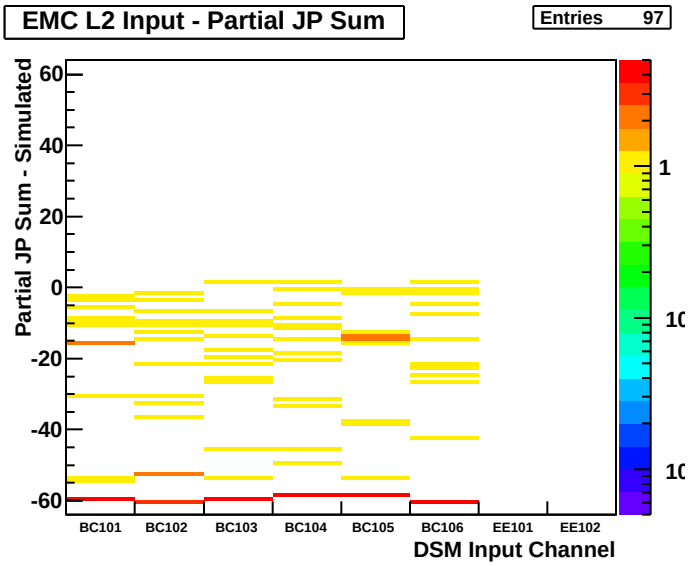

EMC L2 Input - JPY/JPB bits
Entries 404008
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
26009 24517 25040 24788 24827 25308 50501 50501
3778 3858 3730 3794 3883 3872
2117 1947 1953 1917 2043 2050
18597 20179 19778 20002 19748 19271

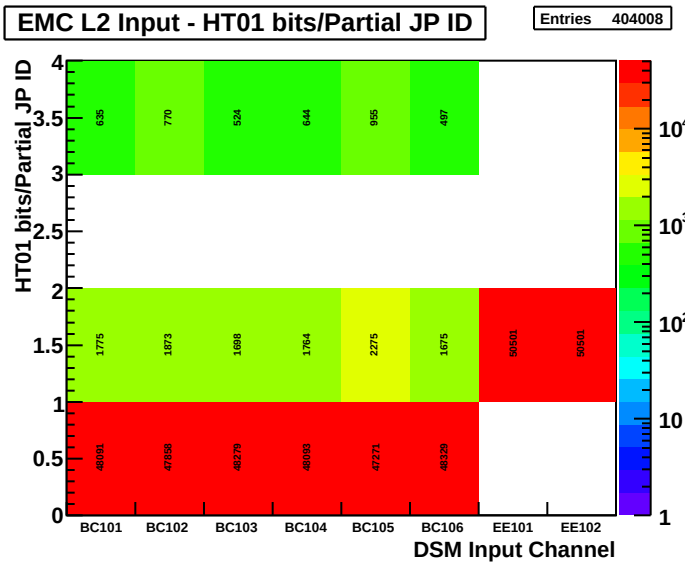

EMC L2 Input - JPY/JPB bits
Entries 66
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
1 1 1 1 2 2
3 1 4 2 1 3
8 8 5 8 8 7

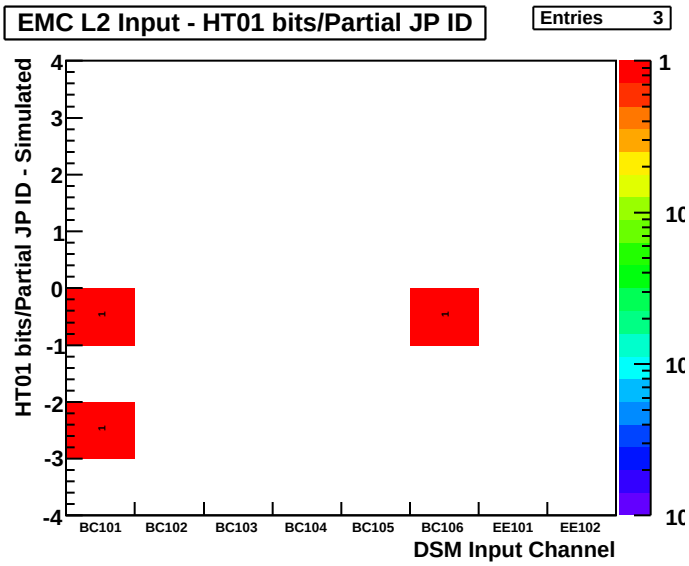

EMC L2 Input - JPZ/JPC bits
Entries 404008
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
25403 24301 25112 25376 25578 25269 50501 50501
3954 3832 3817 3975 3858 3805
2135 1985 2077 2065 2144 1948
19009 20383 19405 19085 18921 19479

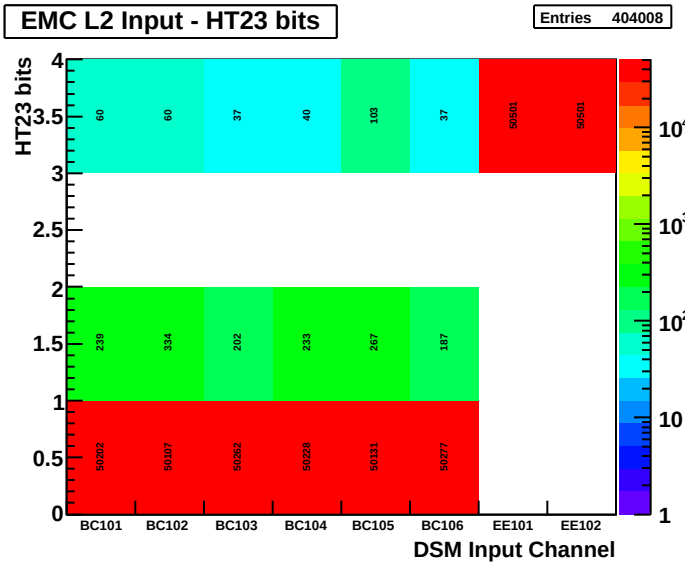

EMC L2 Input - JPZ/JPC bits
Entries 68
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2 2 2 1 4 1
3 2 3 2 1 2
7 7 6 8 8 7

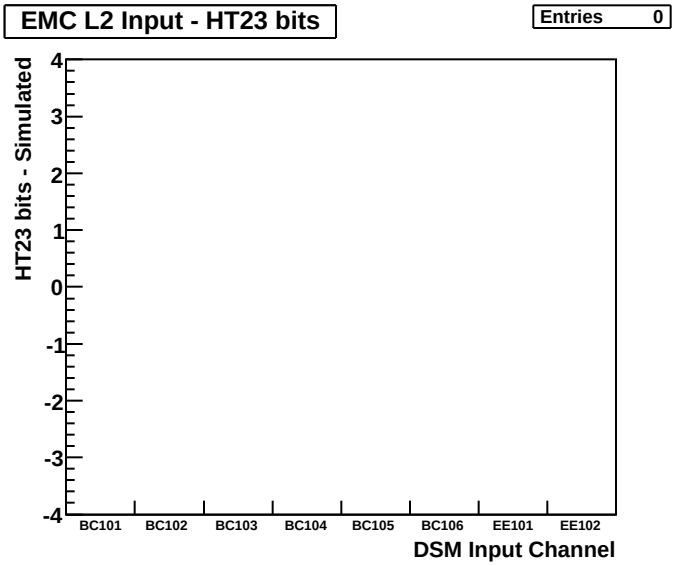

EMC L2 Input - Partial JP Sum
Entries 404008
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

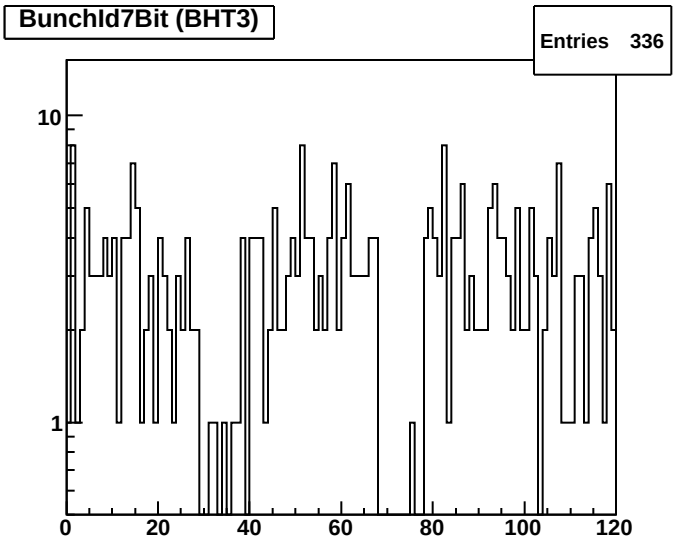

EMC L2 Input - Partial JP Sum
Entries 97
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

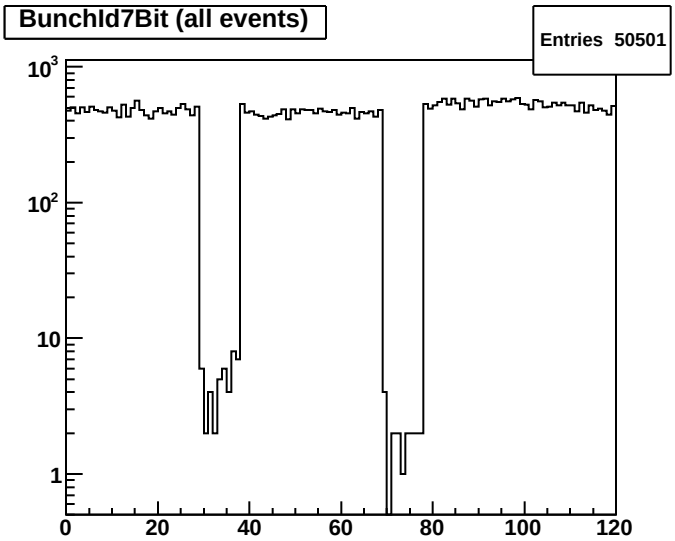

EMC L2 Input - HT01 bits/Partial JP ID
Entries 404008
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

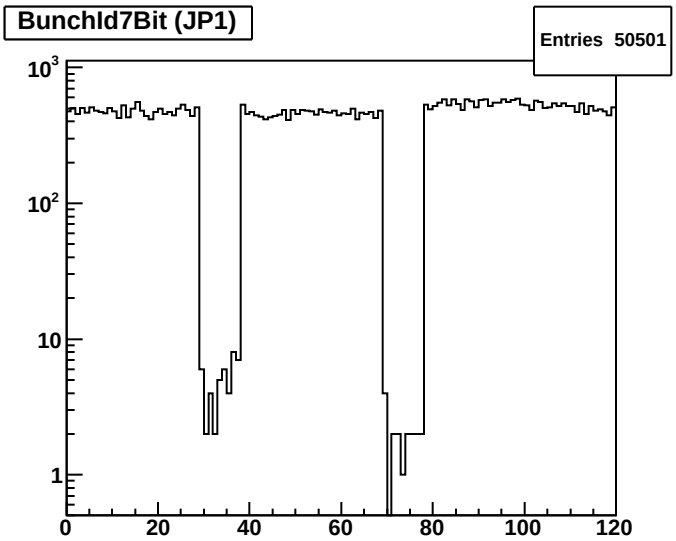

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

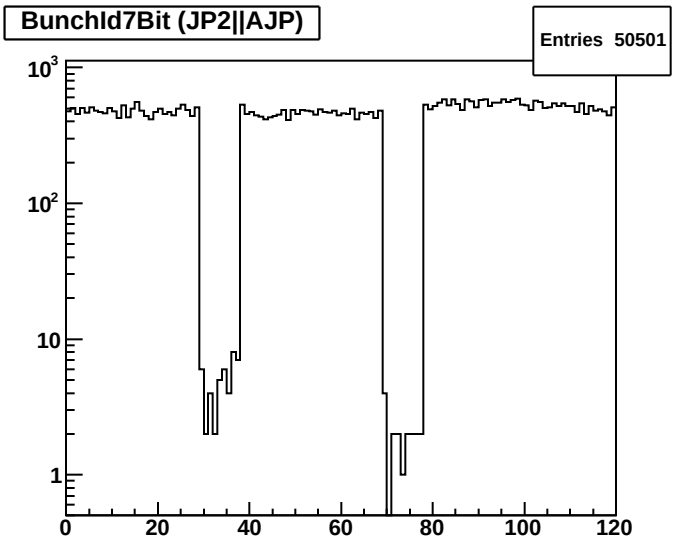

EMC L2 Input - HT23 bits
Entries 404008
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

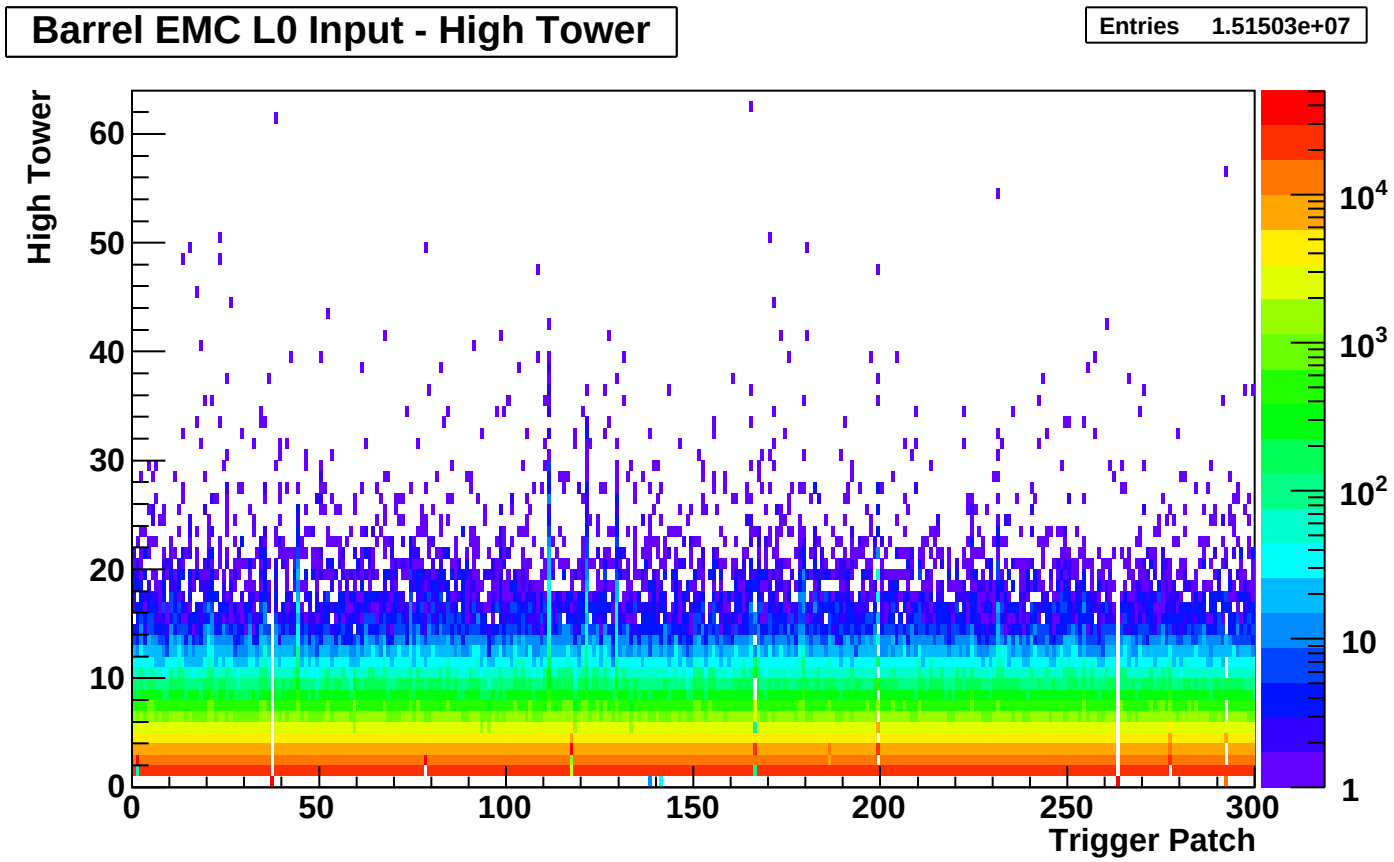

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

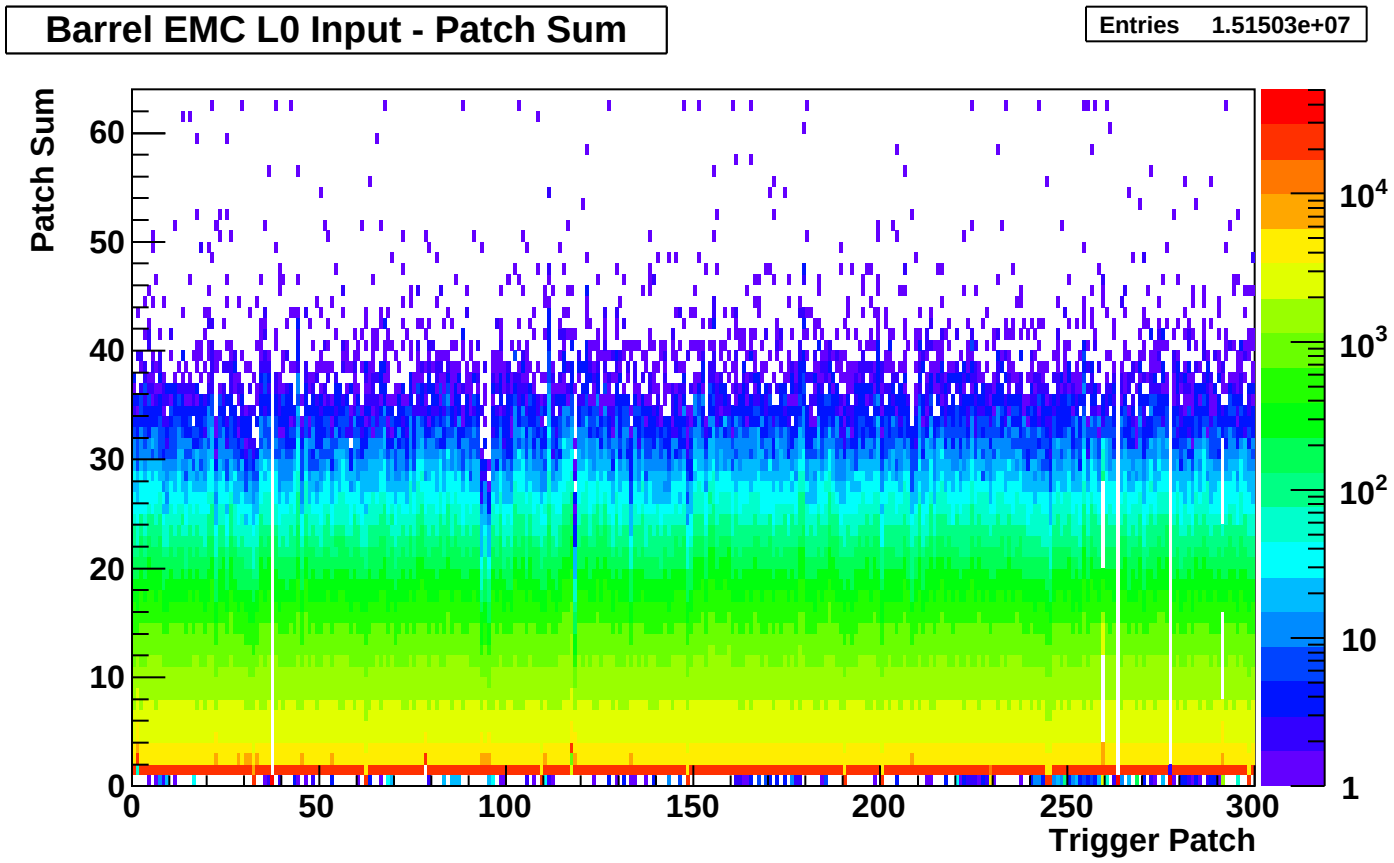

BunchId7Bit (BHT3)
Entries 336
10
1
0
20
40
60
80
100
120

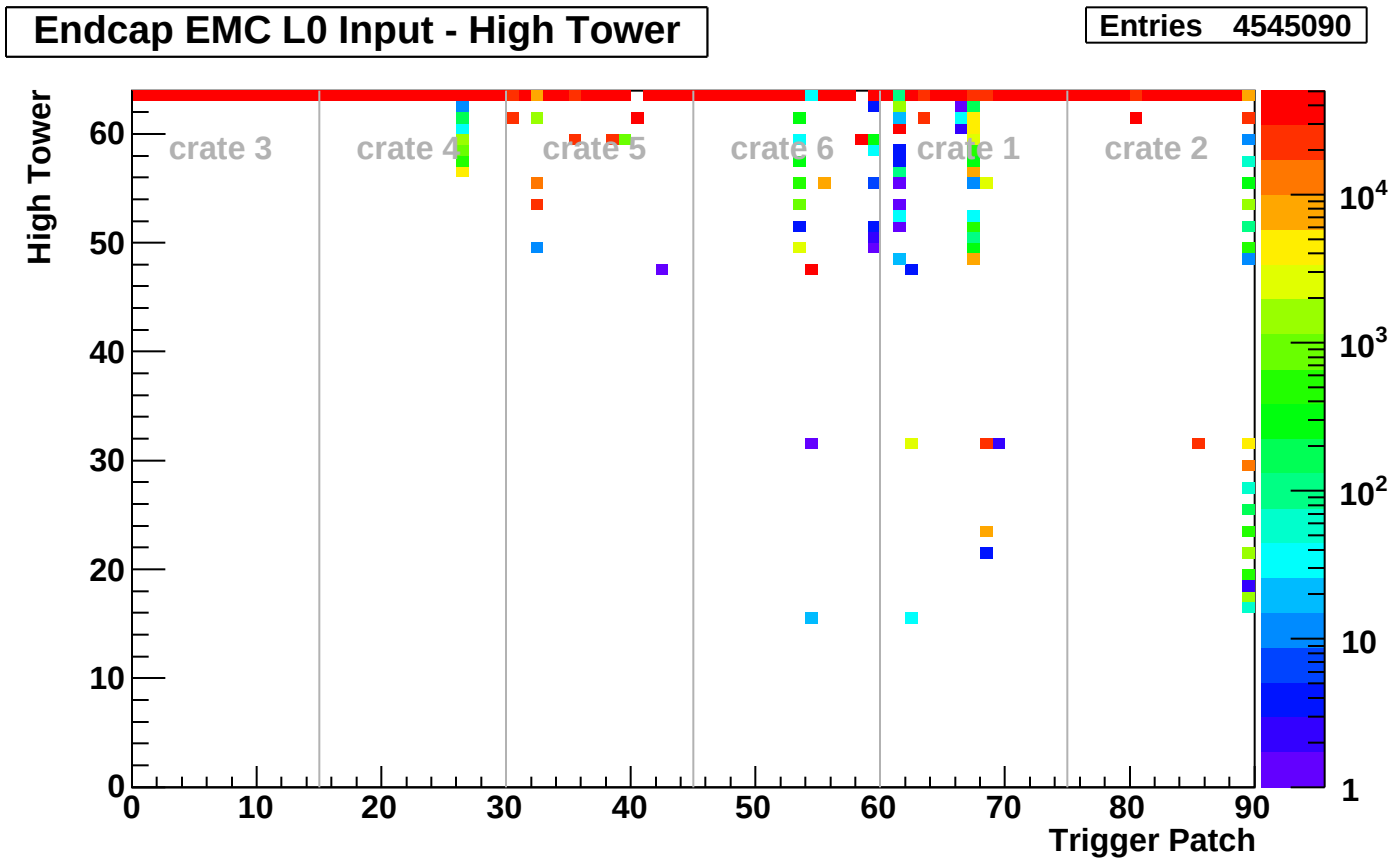

BunchId7Bit (all events)
Entries 50501
10^3
10^2
10
1
0
20
40
60
80
100
120

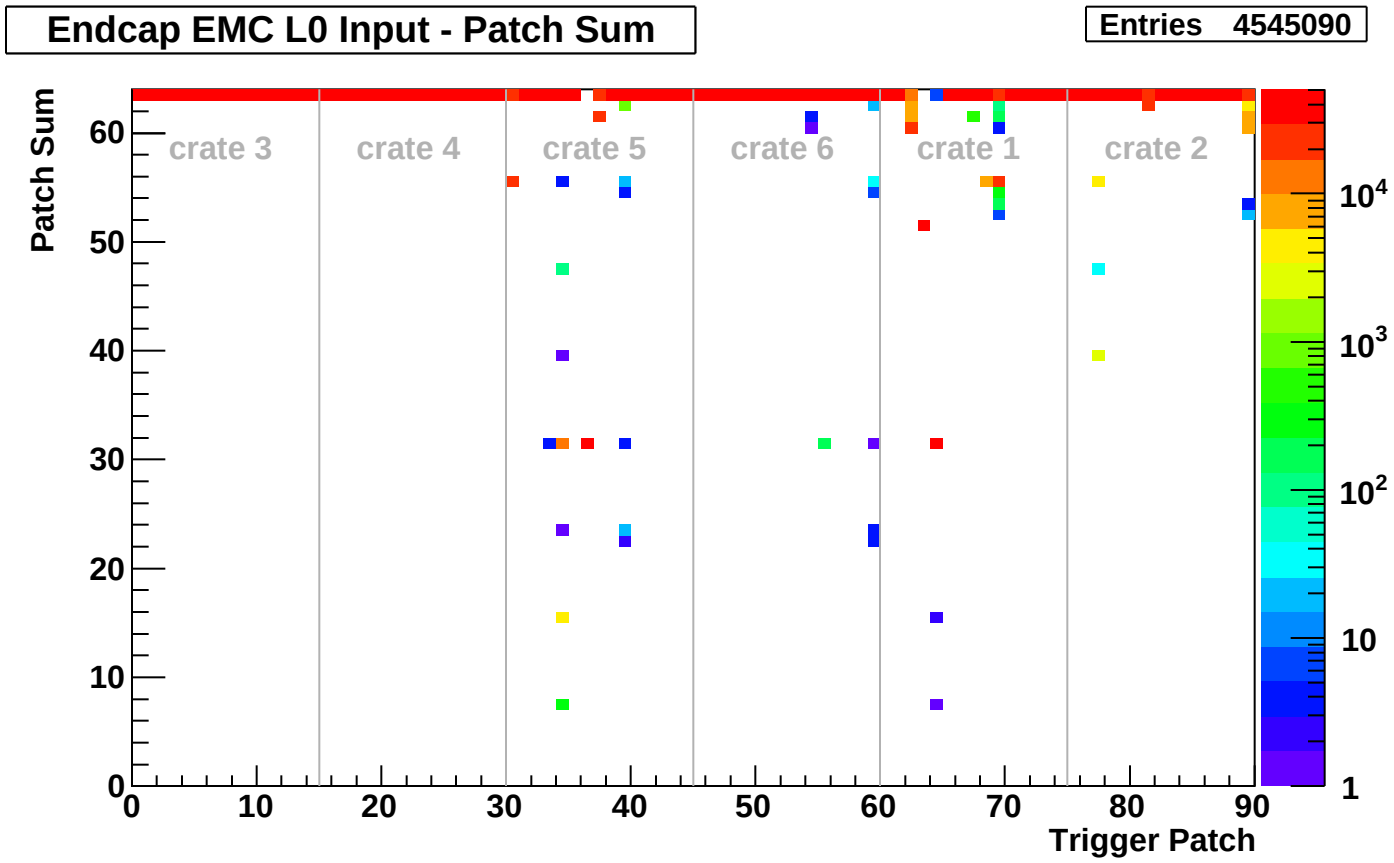

BunchId7Bit (JP1)
Entries 50501
10^3
10^2
10
1
0
20
40
60
80
100
120

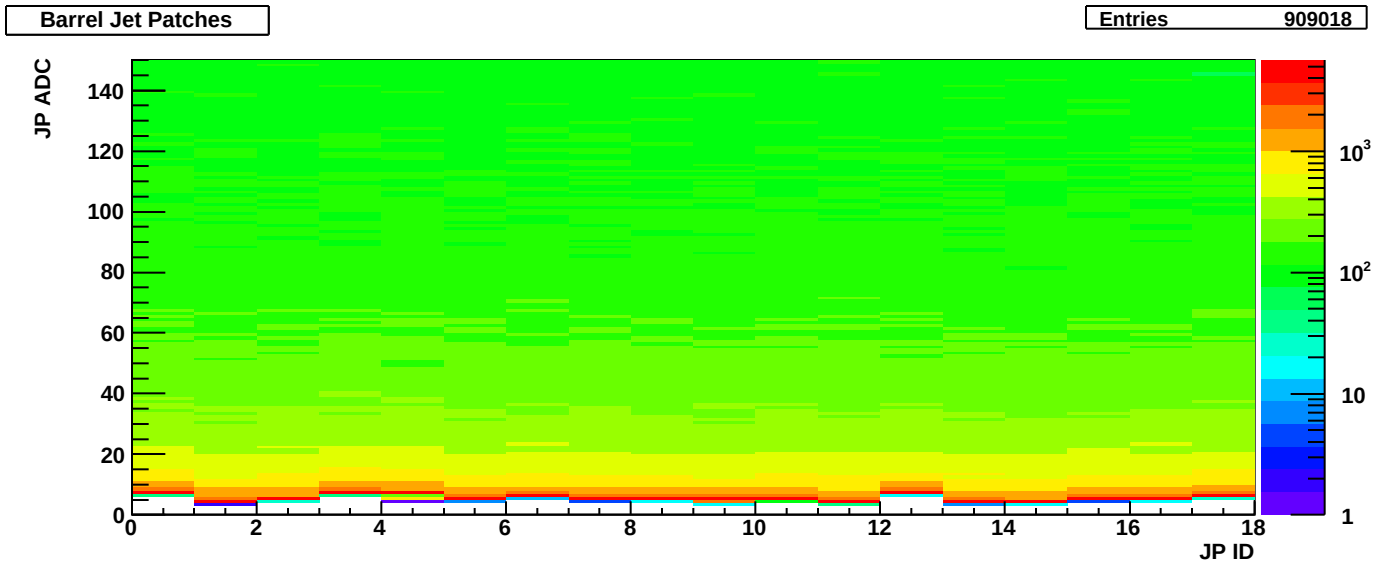

BunchId7Bit (JP2||AJP)
Entries 50501
10^3
10^2
10
1
0
20
40
60
80
100
120

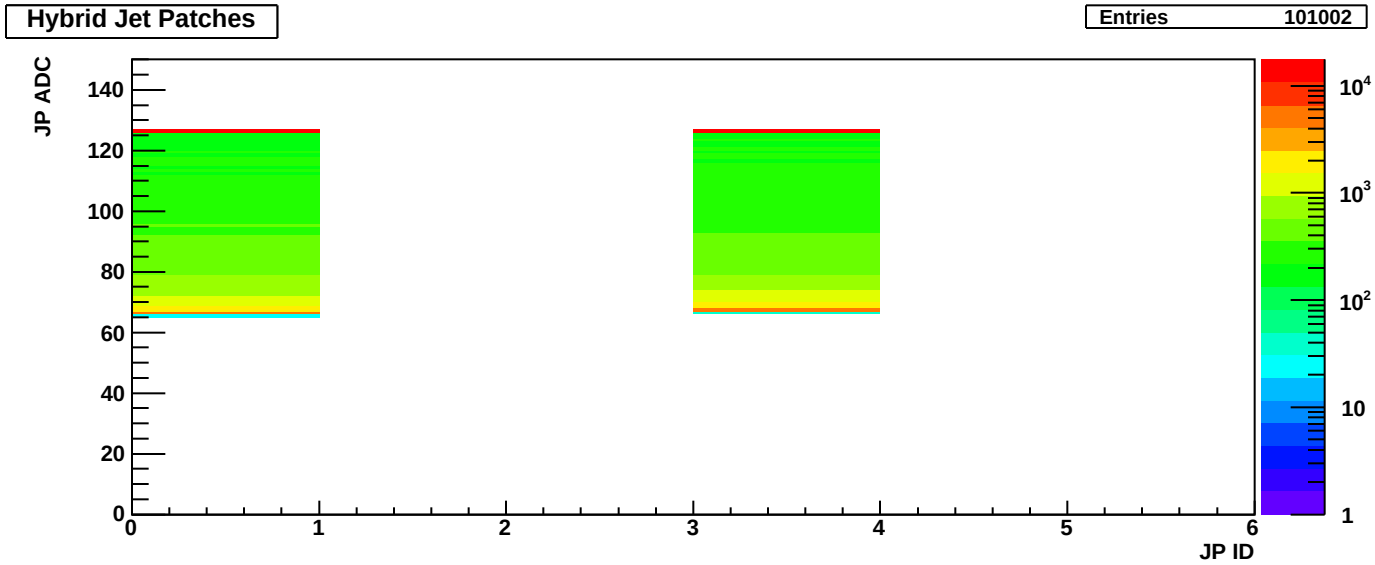

Barrel EMC L0 Input - High Tower
Entries 1.51503e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

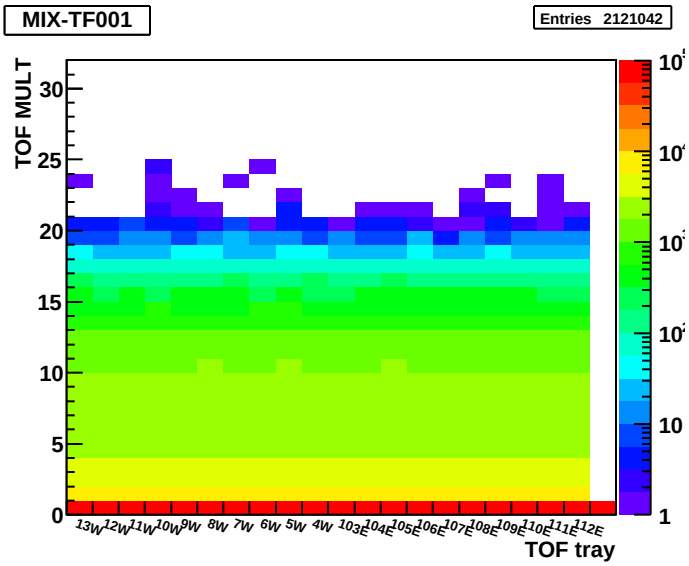

Barrel EMC L0 Input - Patch Sum
Entries 1.51503e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

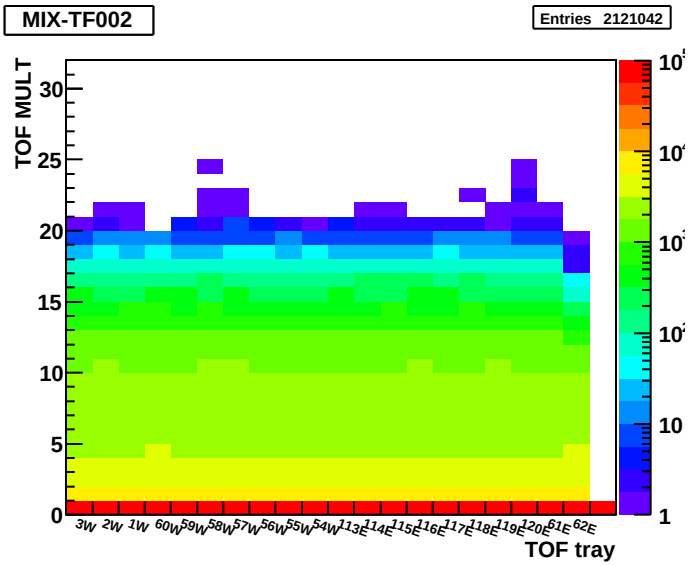

Endcap EMC L0 Input - High Tower
Entries 4545090
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

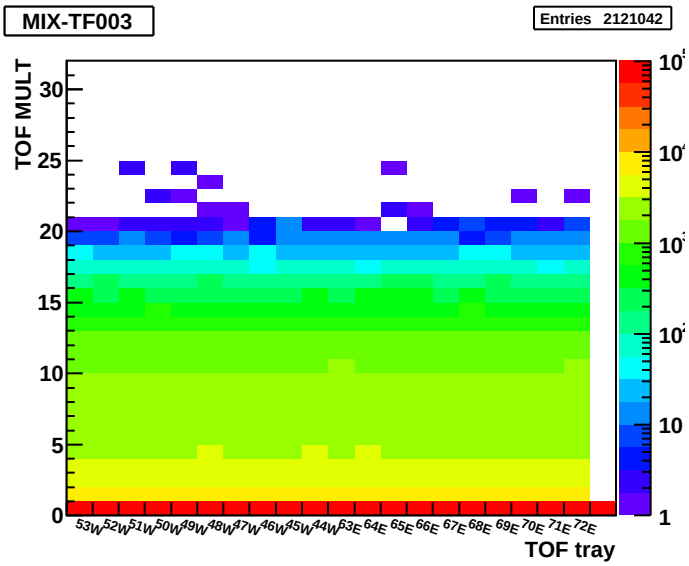

Endcap EMC L0 Input - Patch Sum
Entries 4545090
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

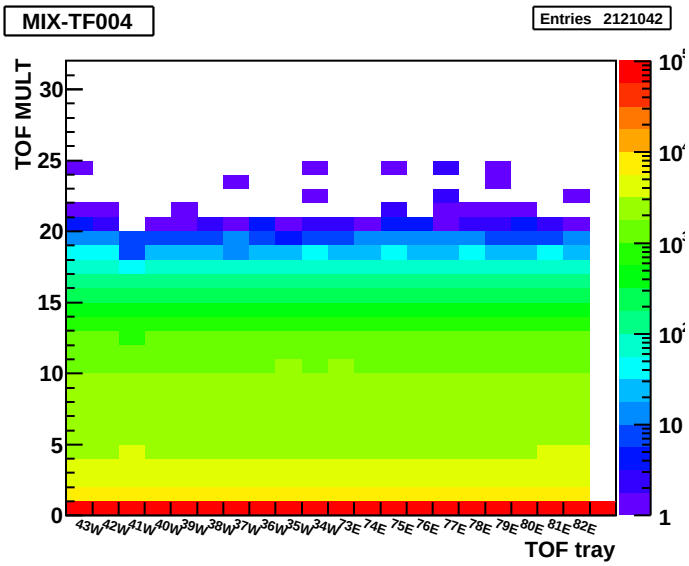

Barrel Jet Patches
Entries 909018
JP ADC
JP ID

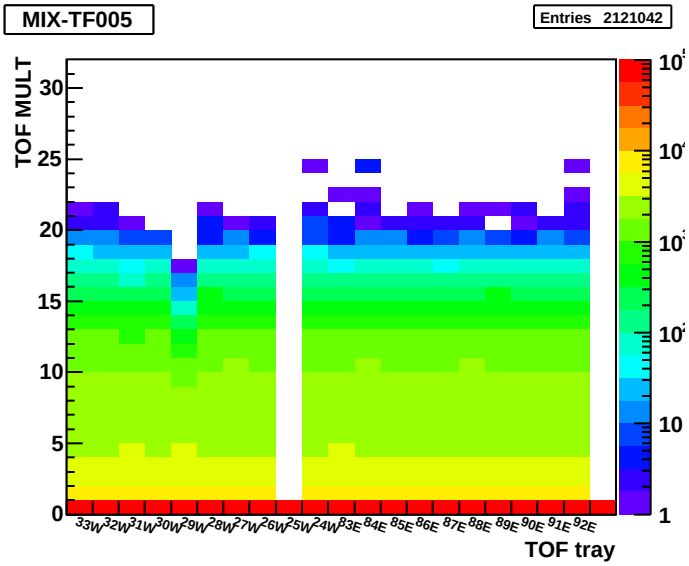

Hybrid Jet Patches
Entries 101002
JP ADC
JP ID

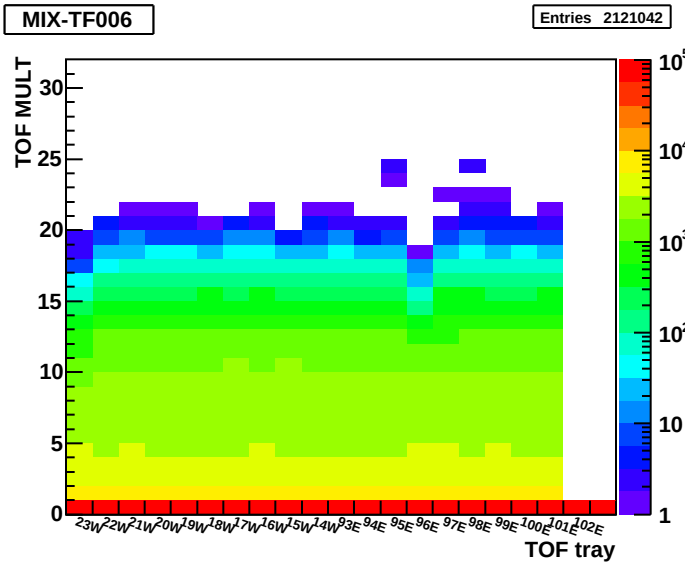

MIX-TF001
Entries 2121042
TOF MULT
TOF tray

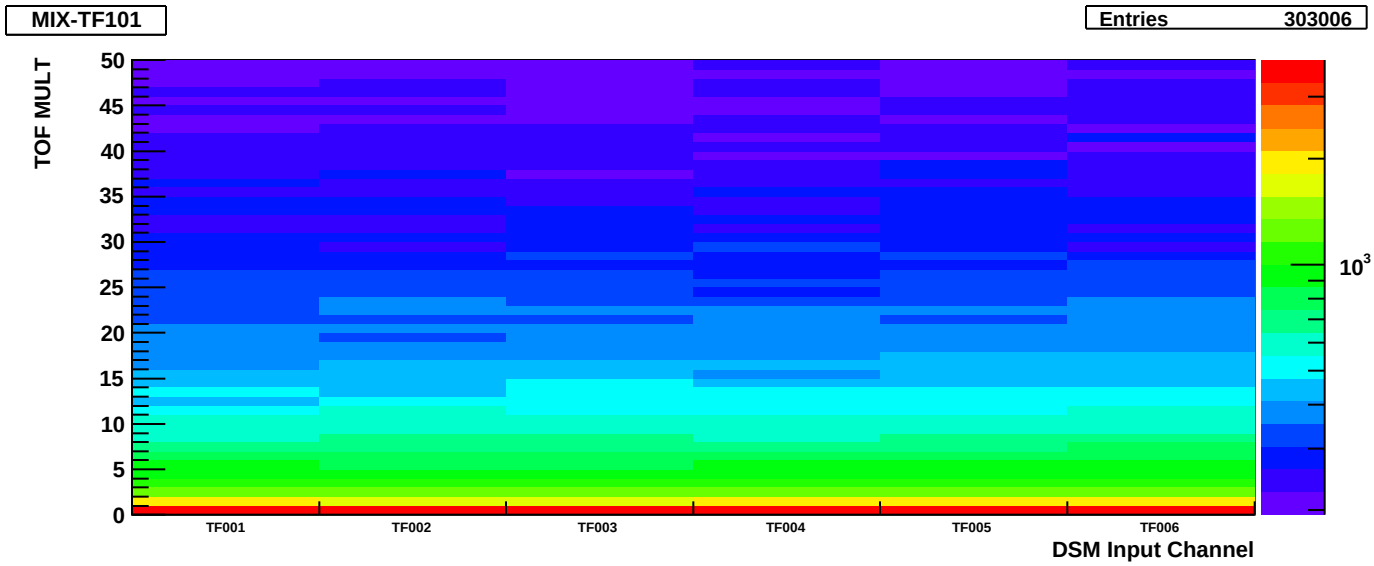

MIX-TF002
Entries 2121042
TOF MULT
TOF tray

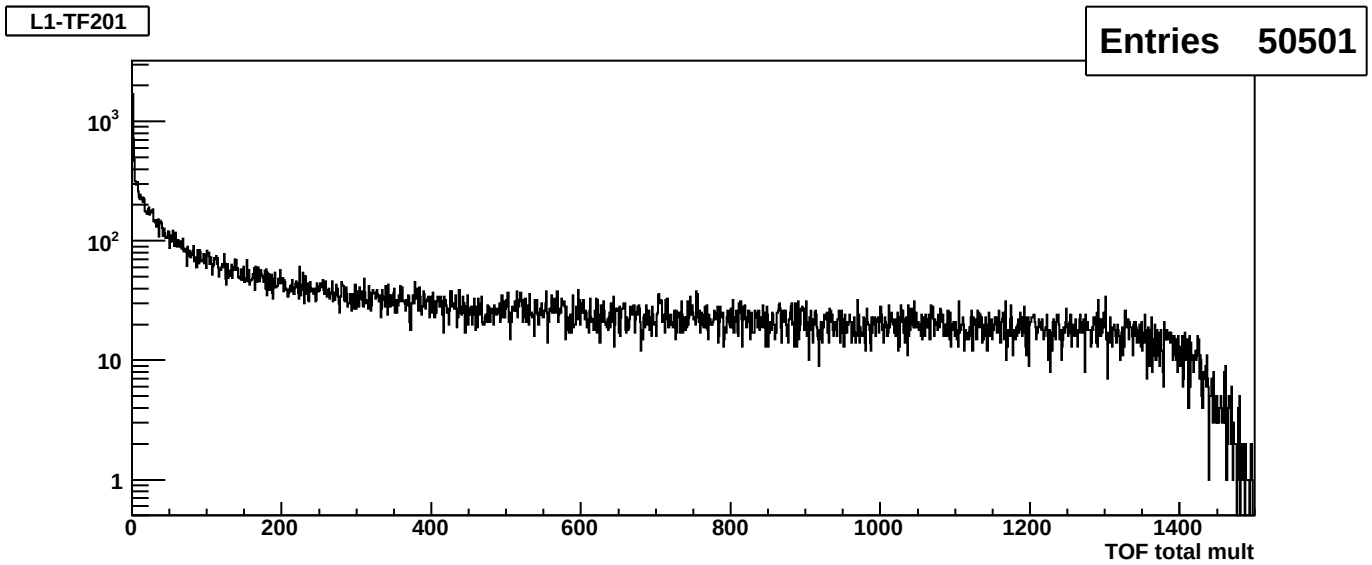

MIX-TF003
Entries 2121042
TOF MULT
TOF tray

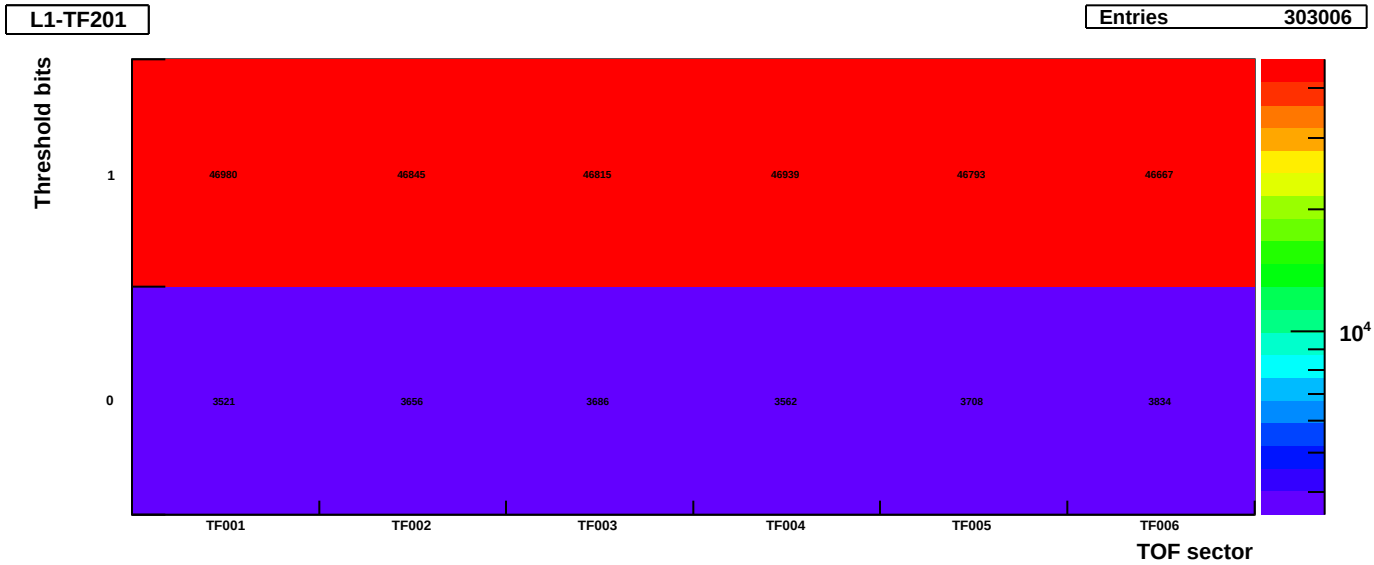

MIX-TF004
Entries 2121042
TOF MULT
TOF tray

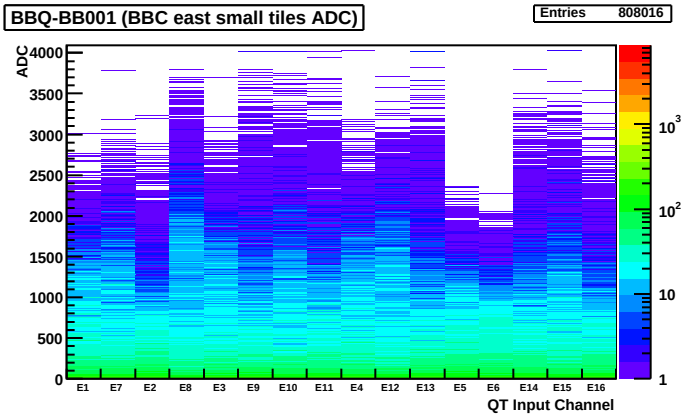

MIX-TF005
Entries 2121042
TOF MULT
TOF tray

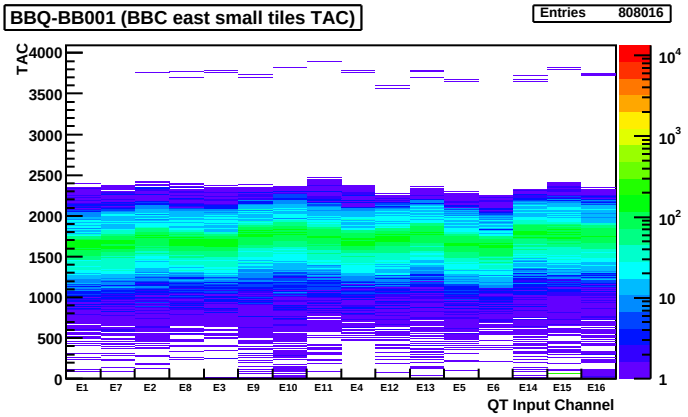

MIX-TF006
Entries 2121042
TOF MULT
TOF tray

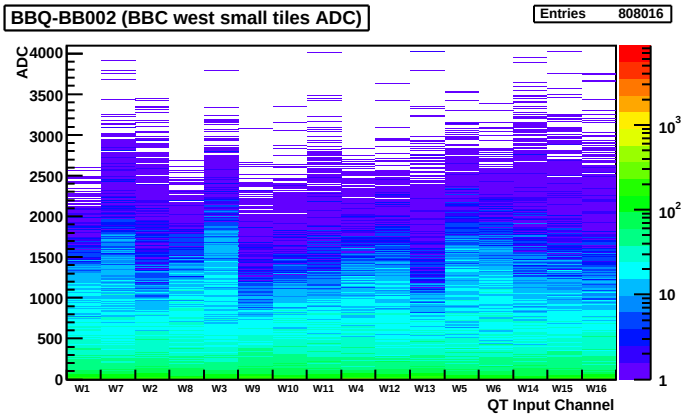

MIX-TF101
Entries 303006
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3

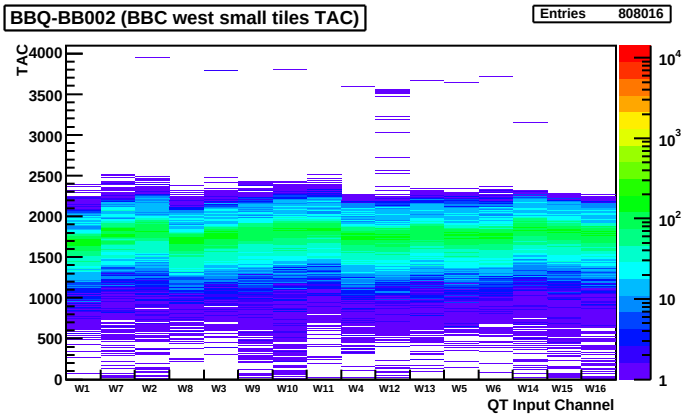

L1-TF201
Entries 50501
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

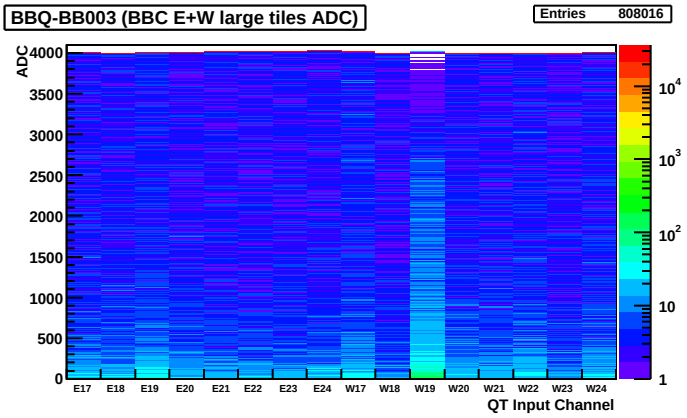

L1-TF201
Entries 303006
Threshold bits
1
0
46980
46845
46815
46939
46793
46667
3521
3656
3686
3562
3708
3834
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^4

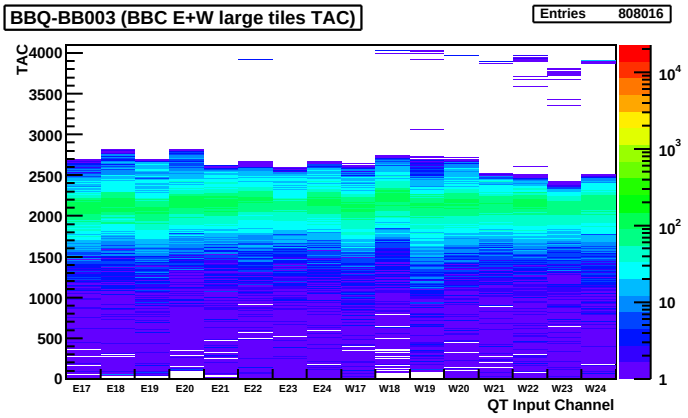

BBQ-BB001 (BBC east small tiles ADC)
Entries 808016
ADC
QT Input Channel

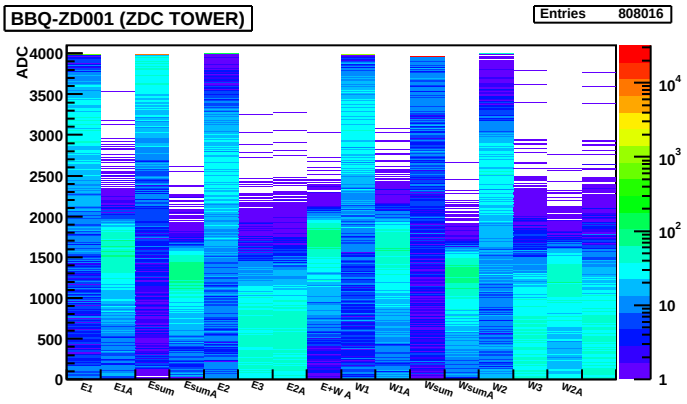

BBQ-BB001 (BBC east small tiles TAC)
Entries 808016
TAC
QT Input Channel

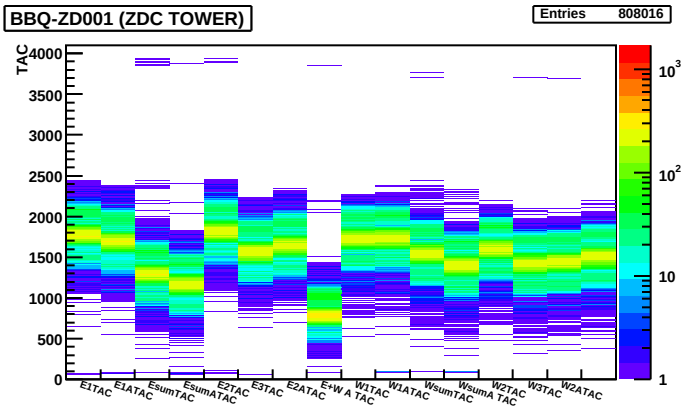

BBQ-BB002 (BBC west small tiles ADC)
Entries 808016
ADC
QT Input Channel

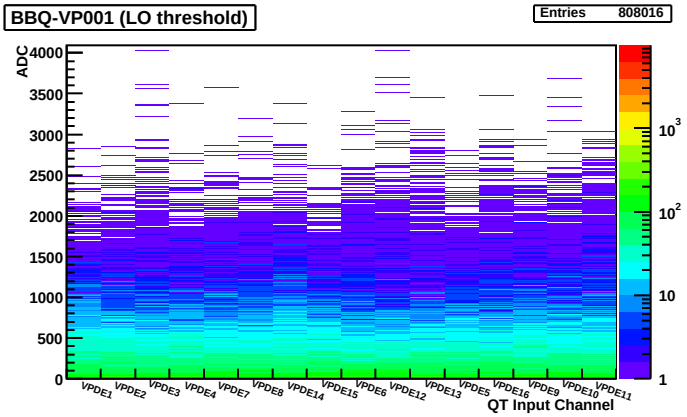

BBQ-BB002 (BBC west small tiles TAC)
Entries 808016
TAC
QT Input Channel

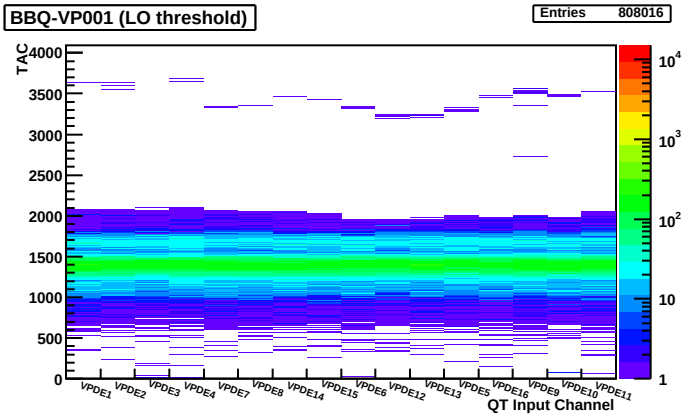

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 808016
ADC
QT Input Channel

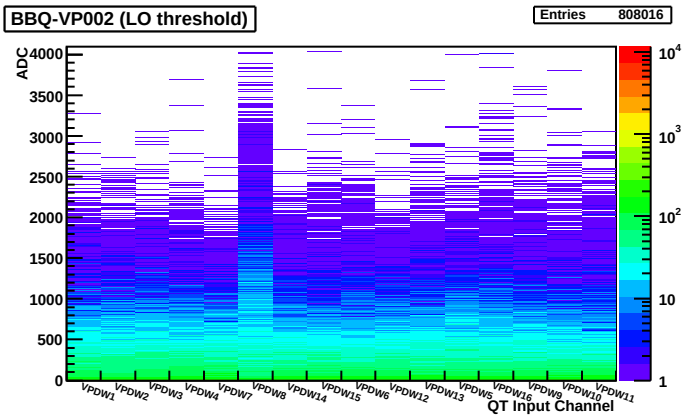

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 808016
TAC
QT Input Channel

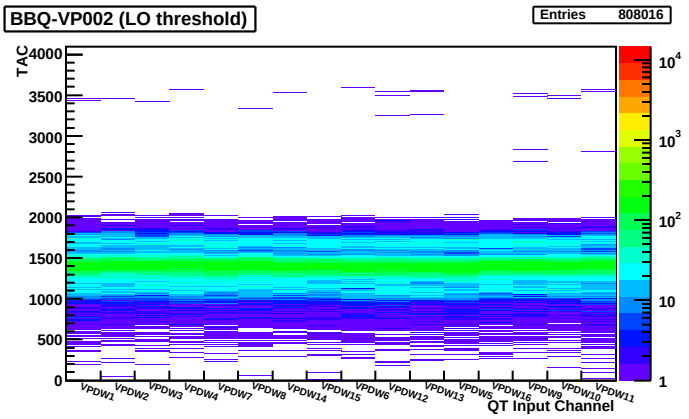

BBQ-ZD001 (ZDC TOWER)
Entries 808016
ADC

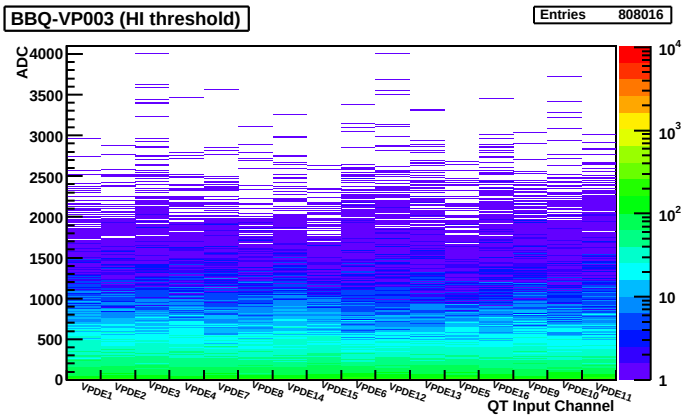

BBQ-ZD001 (ZDC TOWER)
Entries 808016
TAC

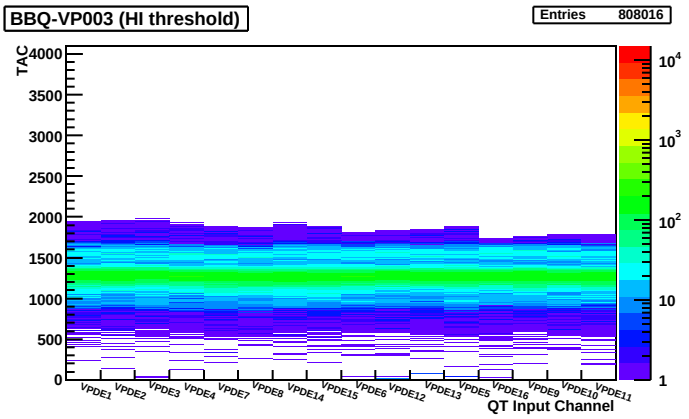

BBQ-VP001 (LO threshold)
Entries 808016
ADC
QT Input Channel

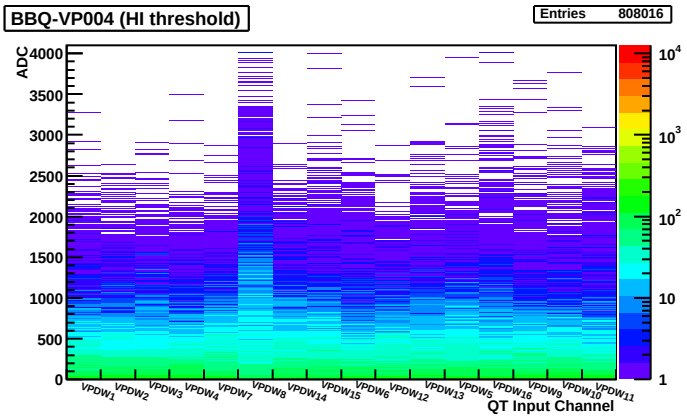

BBQ-VP001 (LO threshold)
Entries 808016
TAC
QT Input Channel

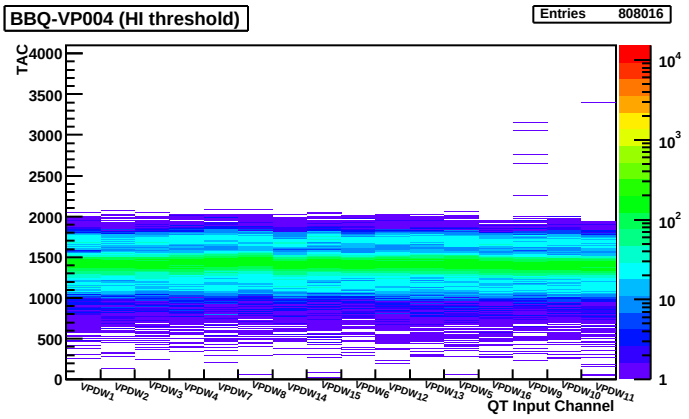

BBQ-VP002 (LO threshold)
Entries 808016
ADC
QT Input Channel

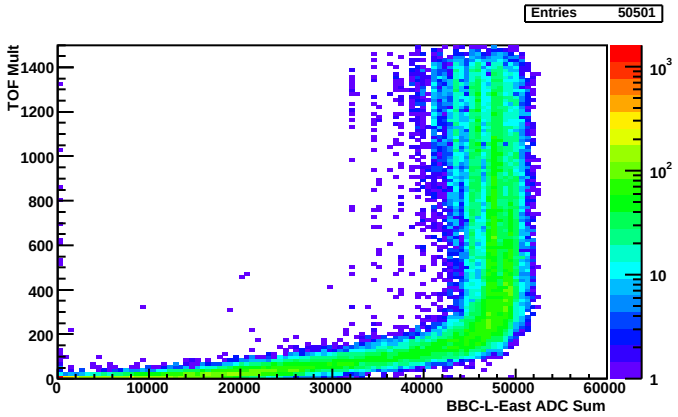

BBQ-VP002 (LO threshold)
Entries 808016
TAC
QT Input Channel

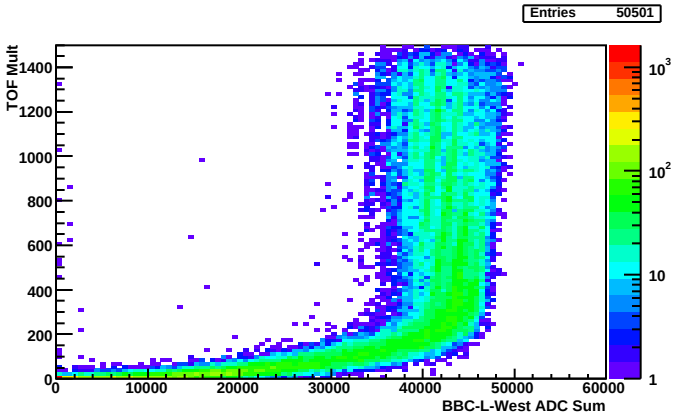

BBQ-VP003 (HI threshold)
Entries 808016
ADC
QT Input Channel

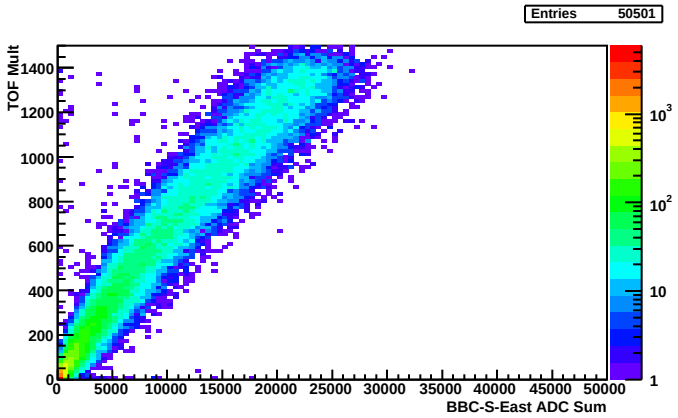

BBQ-VP003 (HI threshold)
Entries 808016
TAC
QT Input Channel

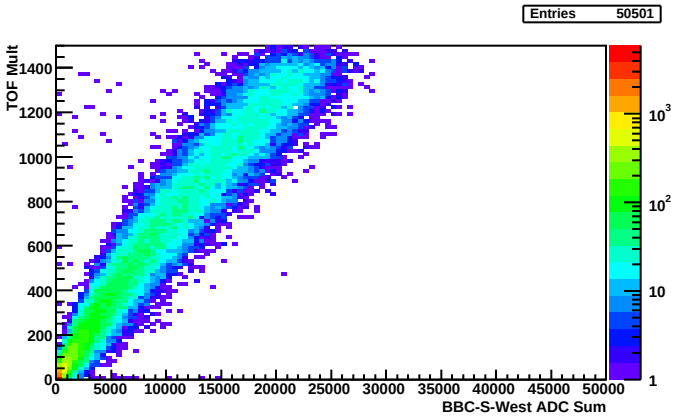

BBQ-VP004 (HI threshold)
Entries 808016
ADC
QT Input Channel

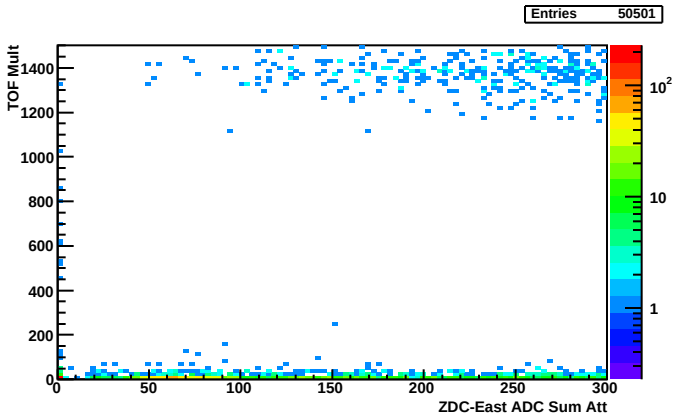

BBQ-VP004 (HI threshold)
Entries 808016
TAC
QT Input Channel

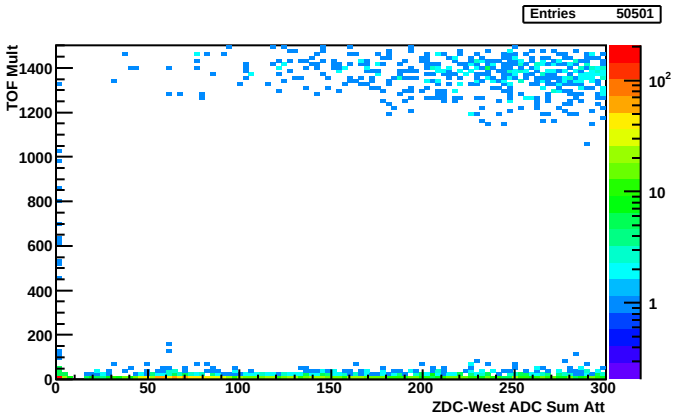

Entries 50501
TOF Mult
BBC-L-East ADC Sum

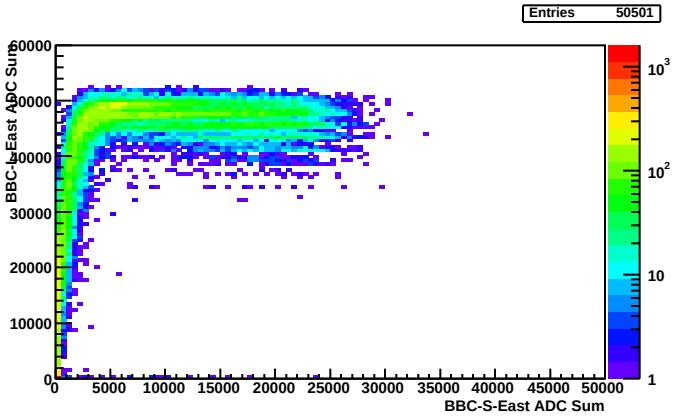

Entries 50501
TOF Mult
BBC-L-West ADC Sum

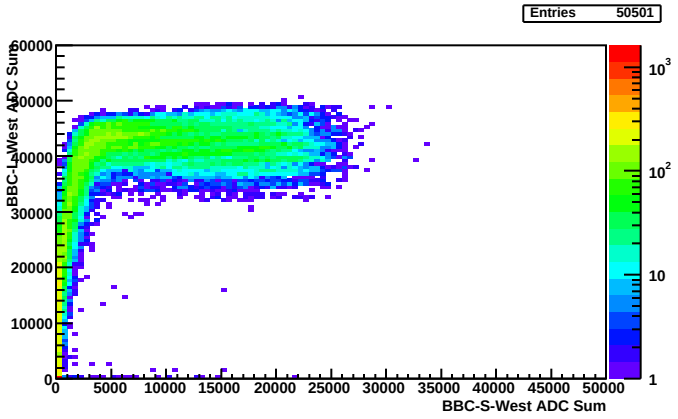

Entries 50501
TOF Mult
BBC-S-East ADC Sum

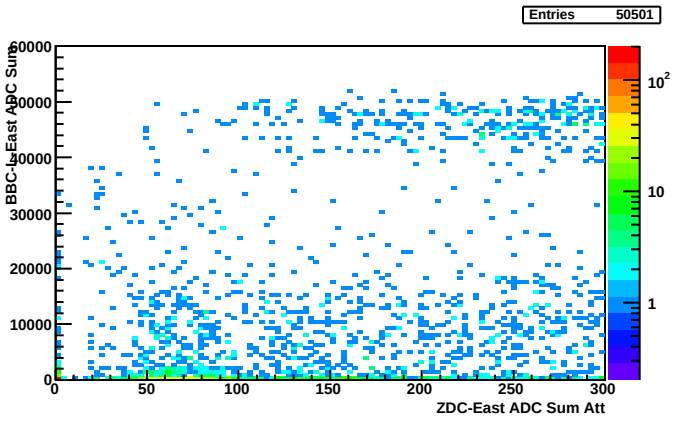

Entries 50501
TOF Mult
BBC-S-West ADC Sum

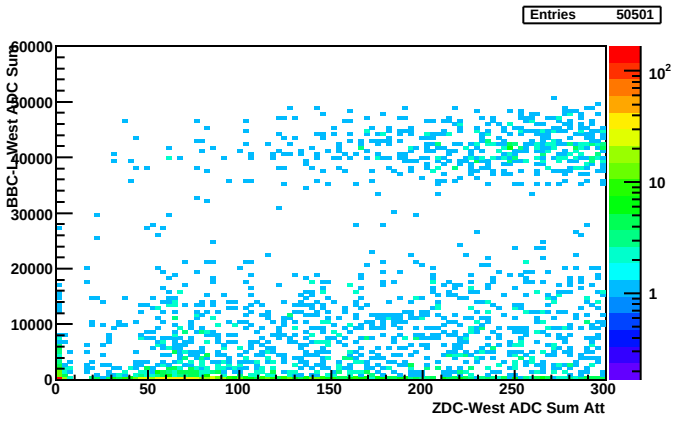

Entries 50501
TOF Mult
ZDC-East ADC Sum Att

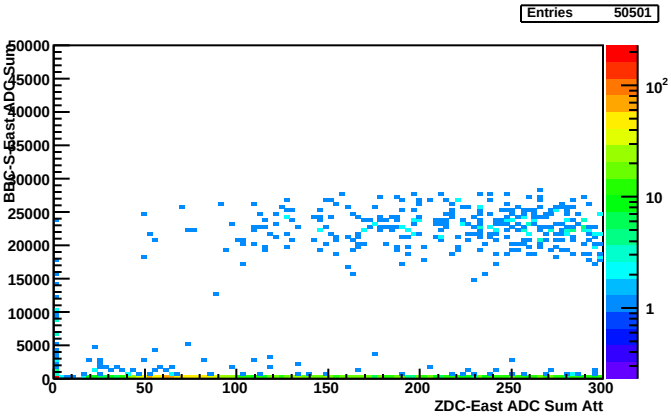

Entries 50501
TOF Mult
ZDC-West ADC Sum Att

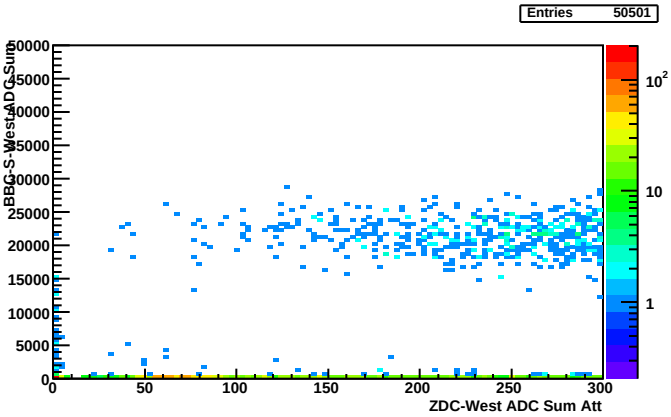

Entries 50501
BBC-L-East ADC Sum
BBC-S-East ADC Sum

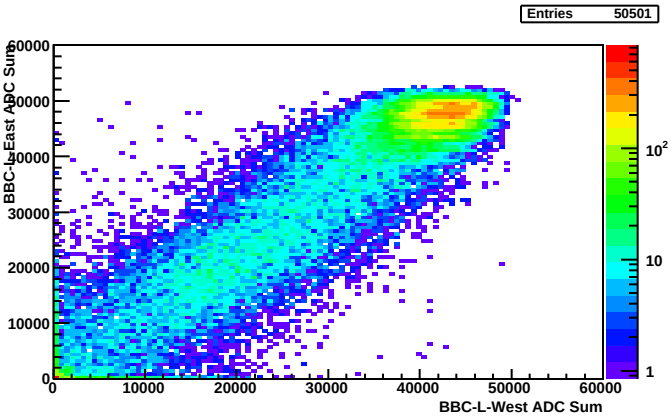

Entries 50501
BBC-L-West ADC Sum
BBC-S-West ADC Sum

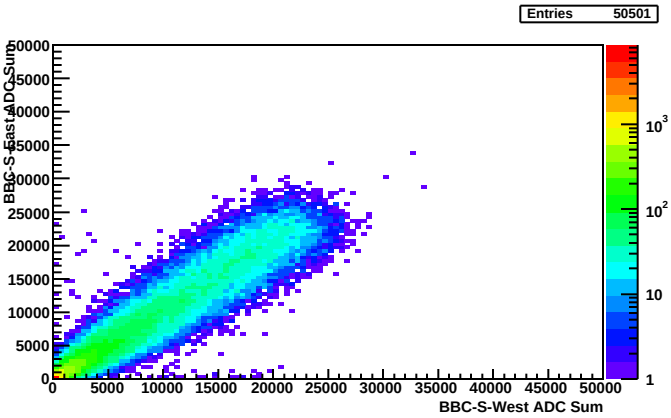

Entries 50501
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

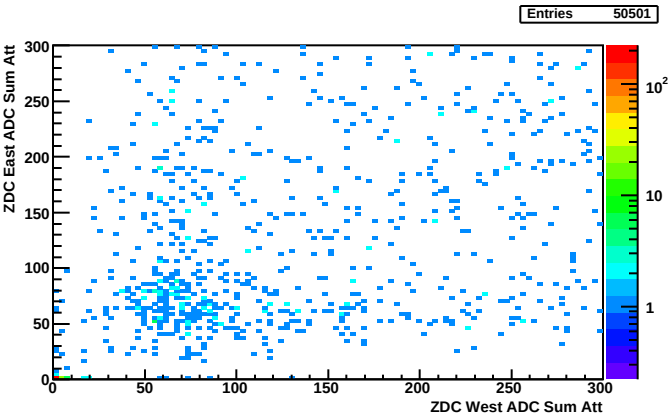

Entries 50501
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

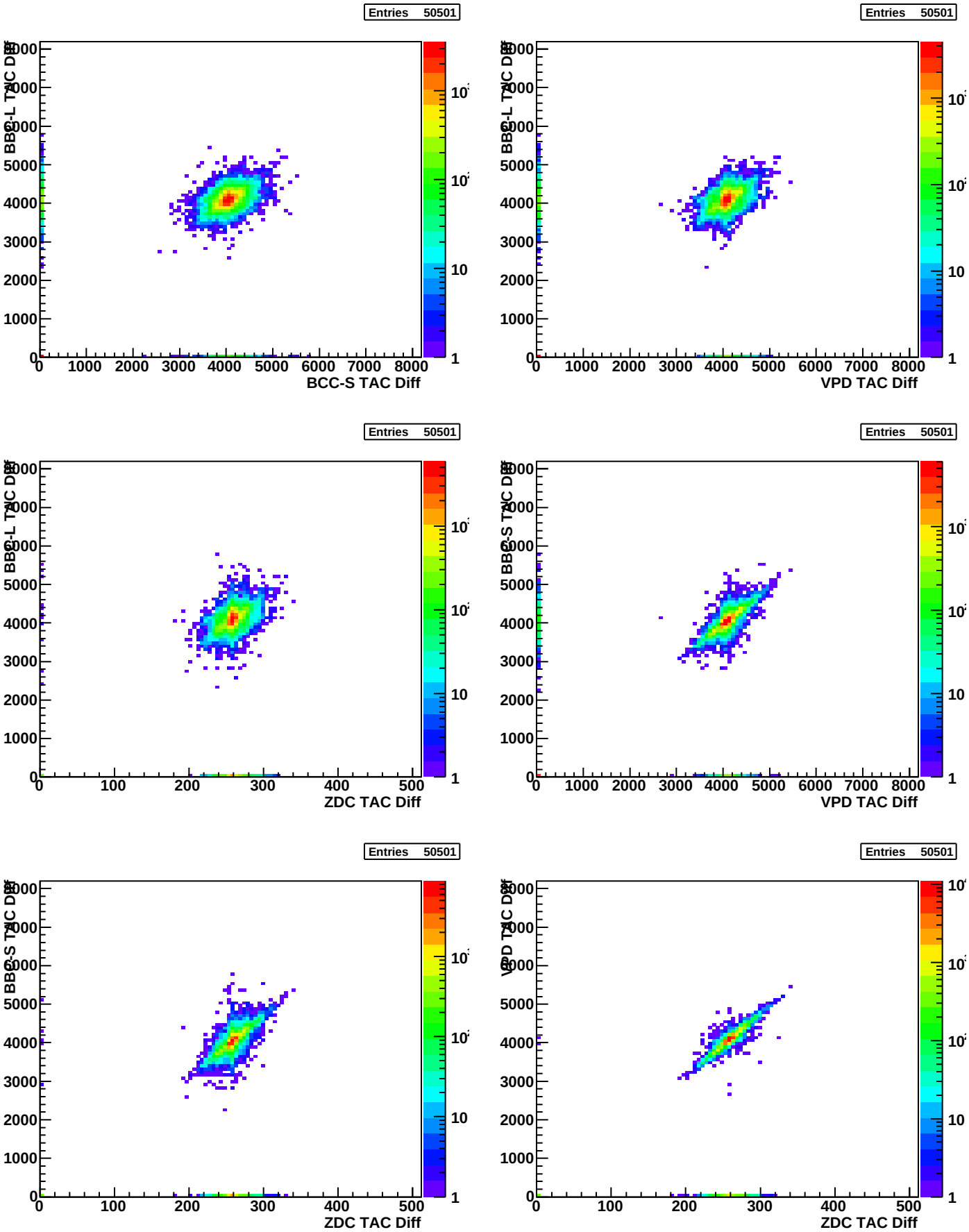

Entries 50501
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

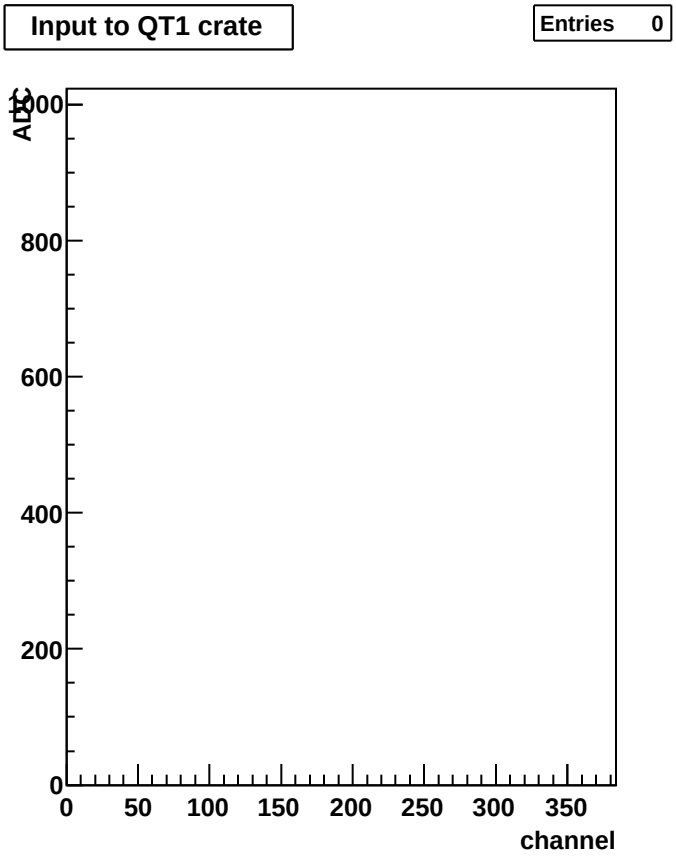

Entries 50501
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

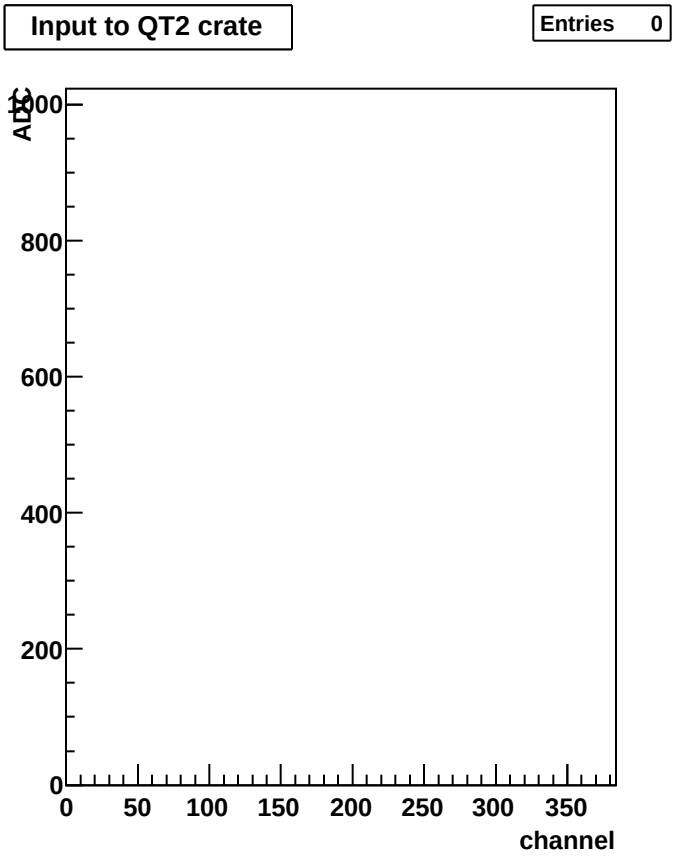

Entries 50501
BBC-L-East ADC Sum
BBC-L-West ADC Sum

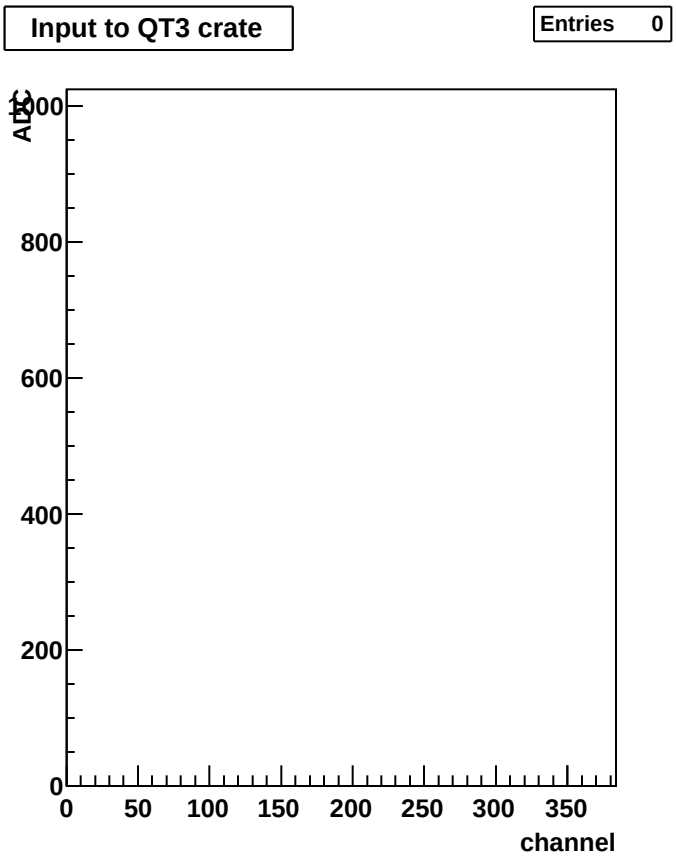

Entries 50501
BBC-S-East ADC Sum
BBC-S-West ADC Sum

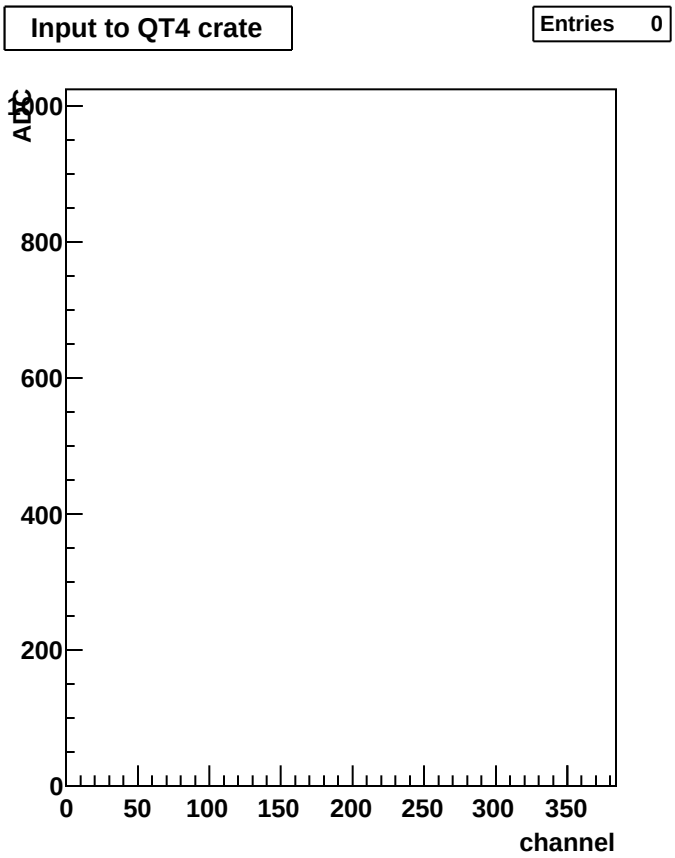

Entries 50501
ZDC East ADC Sum Att
ZDC West ADC Sum Att

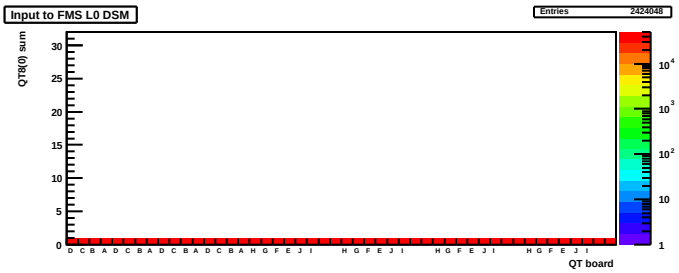

Entries 50501
BBC-L TAC Diff
BCC-S TAC Diff
Entries 50501
BBC-L TAC Diff
VPD TAC Diff
Entries 50501
BBC-L TAC Diff
ZDC TAC Diff
Entries 50501
BBC-S TAC Diff
VPD TAC Diff
Entries 50501
BBC-S TAC Diff
ZDC TAC Diff
Entries 50501
VPD TAC Diff
ZDC TAC Diff

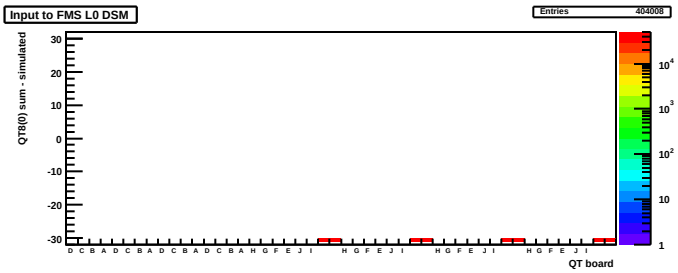

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

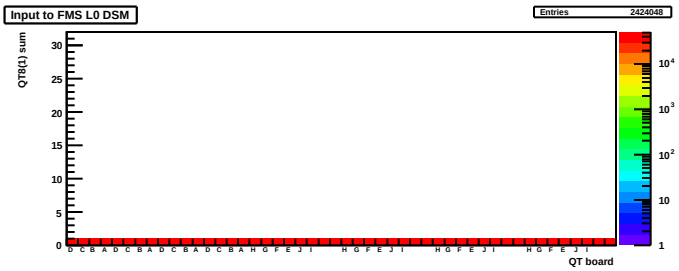

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

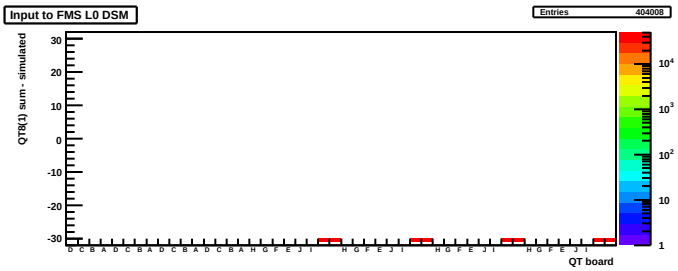

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

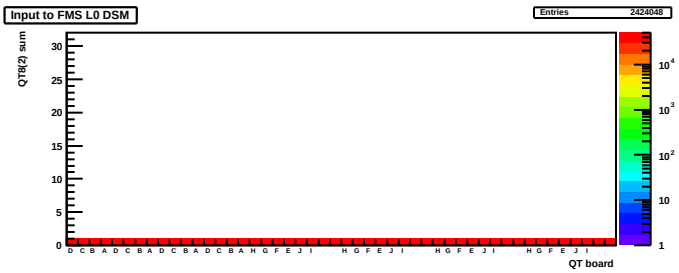

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

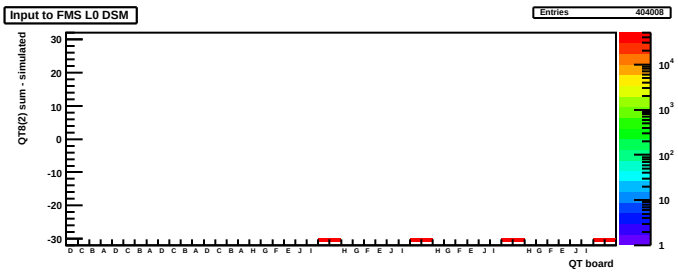

Input to FMS L0 DSM
Entries 2424048
QT8(0) sum
QT board

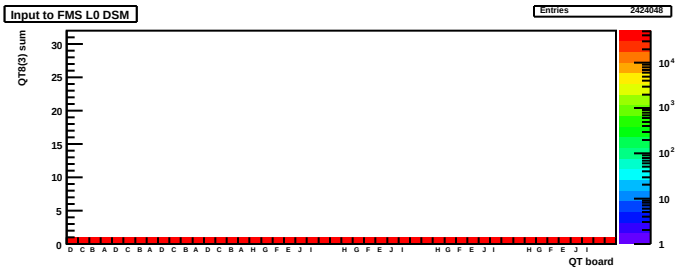

Input to FMS L0 DSM
Entries 404008
QT8(0) sum - simulated
QT board

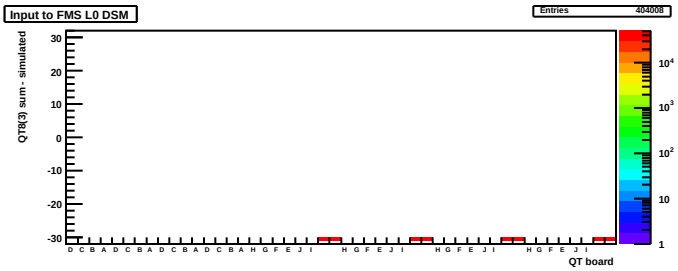

Input to FMS L0 DSM
Entries 2424048
QT8(1) sum
QT board

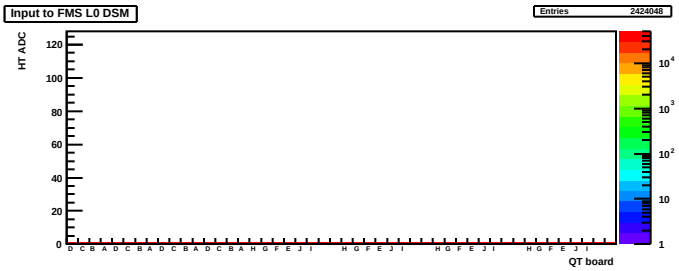

Input to FMS L0 DSM
Entries 404008
QT8(1) sum - simulated
QT board

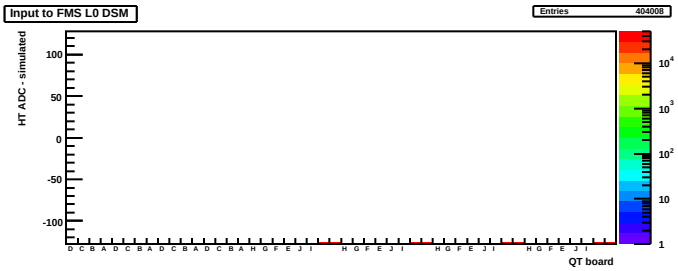

Input to FMS L0 DSM
Entries 2424048
QT8(2) sum
QT board

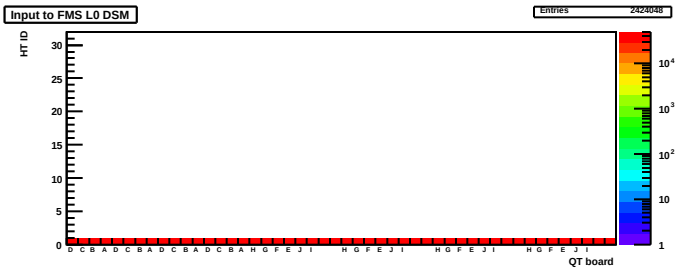

Input to FMS L0 DSM
Entries 404008
QT8(2) sum - simulated
QT board

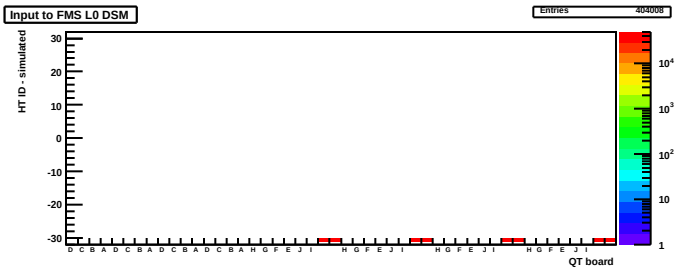

Input to FMS L0 DSM
Entries 2424048
QT8(3) sum
QT board

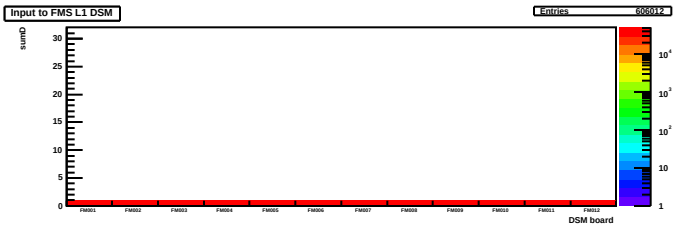

Input to FMS L0 DSM
Entries 404008
QT8(3) sum - simulated
QT board

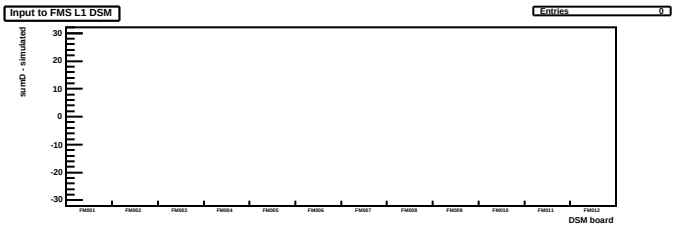

Input to FMS L0 DSM
Entries 2424048
HT ADC
QT board

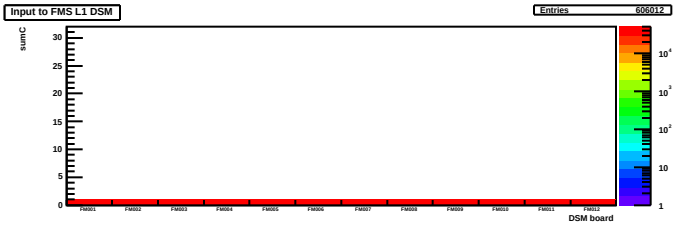

Input to FMS L0 DSM
Entries 404008
HT ADC - simulated
QT board

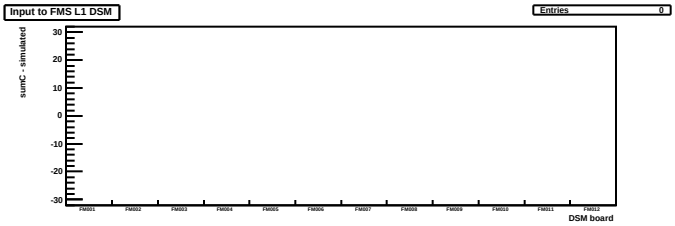

Input to FMS L0 DSM
Entries 2424048
HT ID
QT board

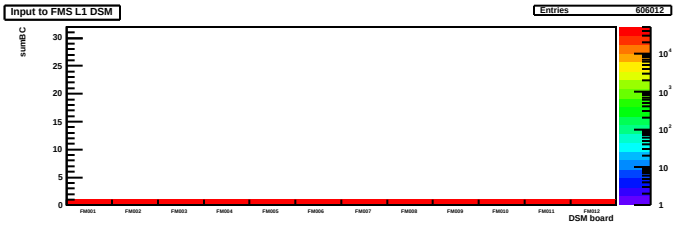

Input to FMS L0 DSM
Entries 404008
HT ID - simulated
QT board

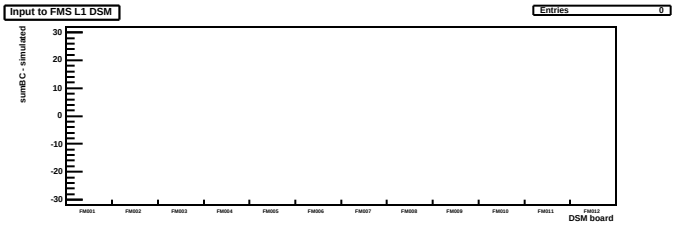

Input to FMS L1 DSM
Entries 606012
sumD
DSM board

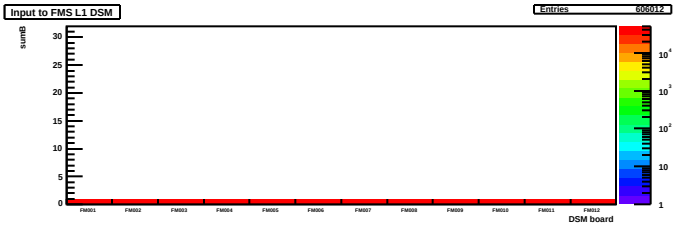

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

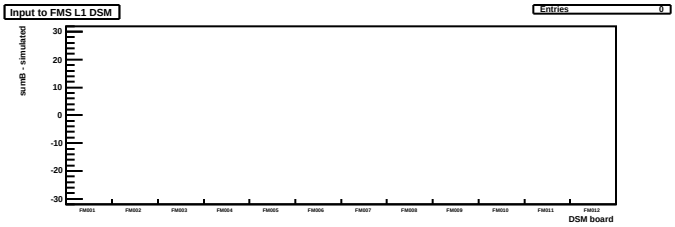

Input to FMS L1 DSM
Entries 606012
sumC
DSM board

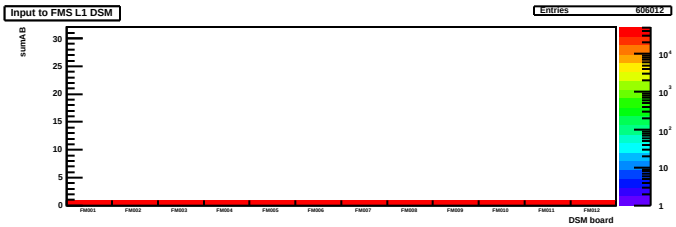

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

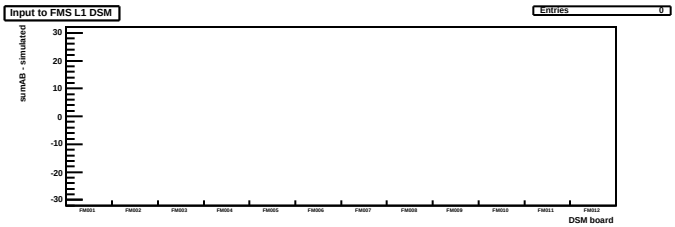

Input to FMS L1 DSM
Entries 606012
sumBC
DSM board

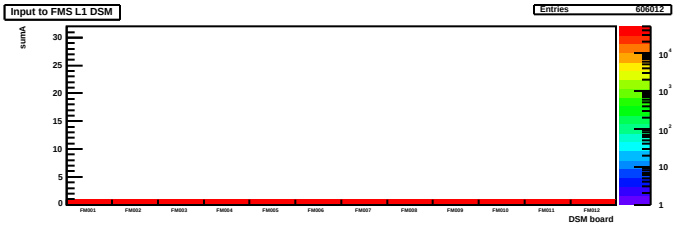

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

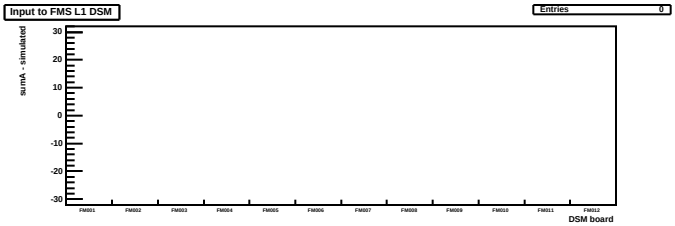

Input to FMS L1 DSM
Entries 606012
sumB
DSM board

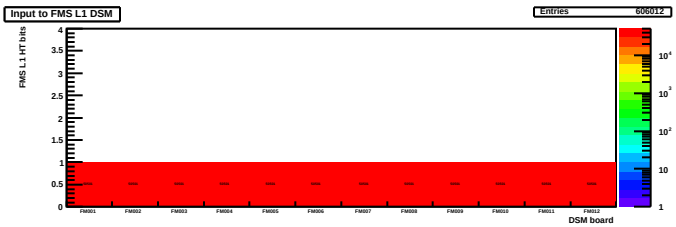

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

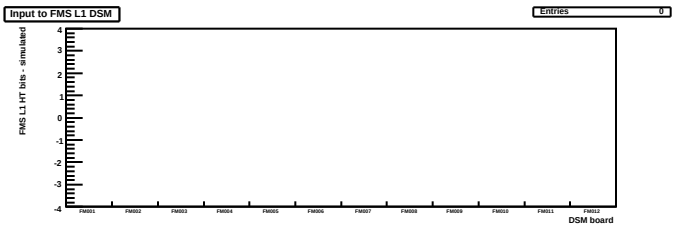

Input to FMS L1 DSM
Entries 606012
sumAB
DSM board

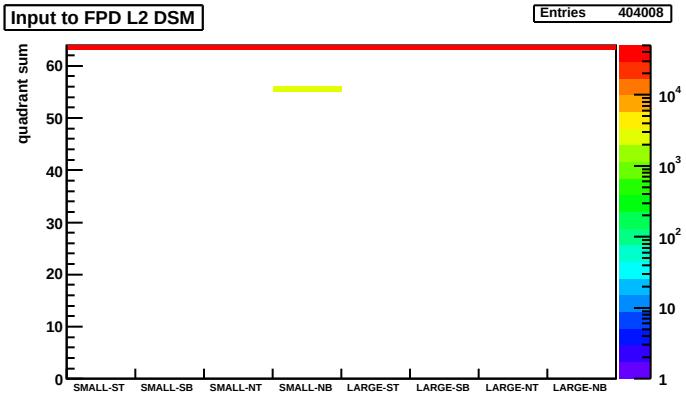

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

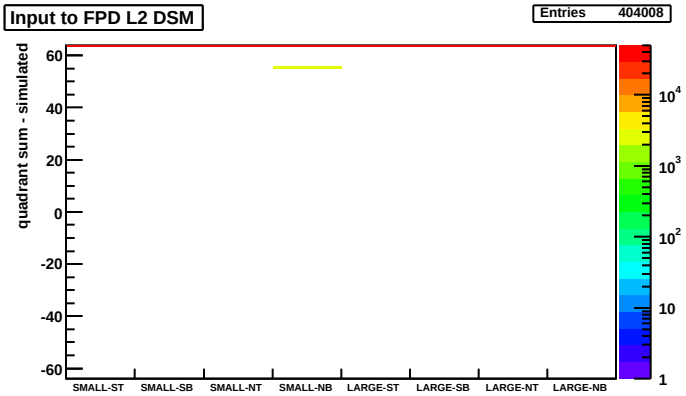

Input to FMS L1 DSM
Entries 606012
sumA
DSM board

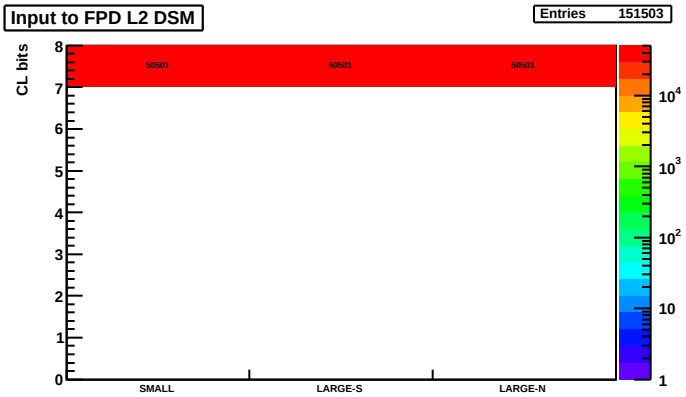

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

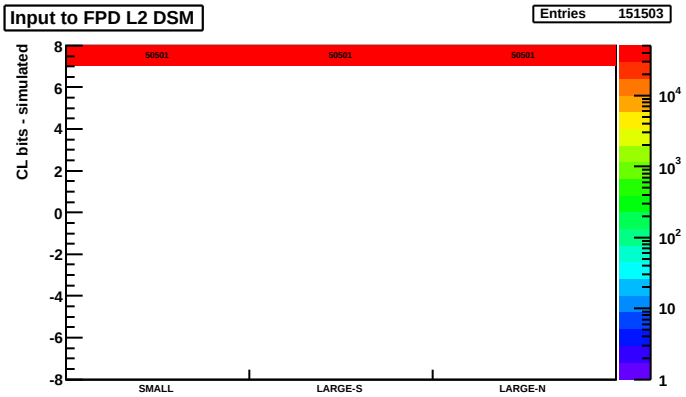

Input to FMS L1 DSM
Entries 606012
FMS L1 HT bits
DSM board

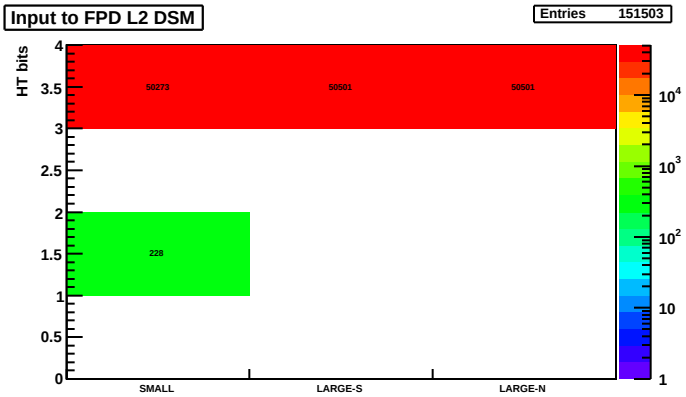

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

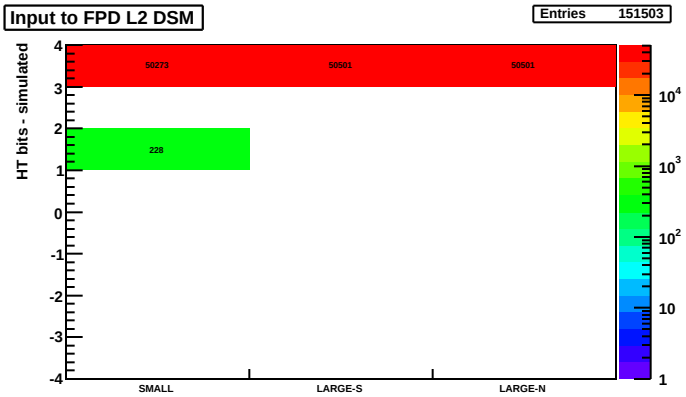

Input to FPD L2 DSM
Entries 404008
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

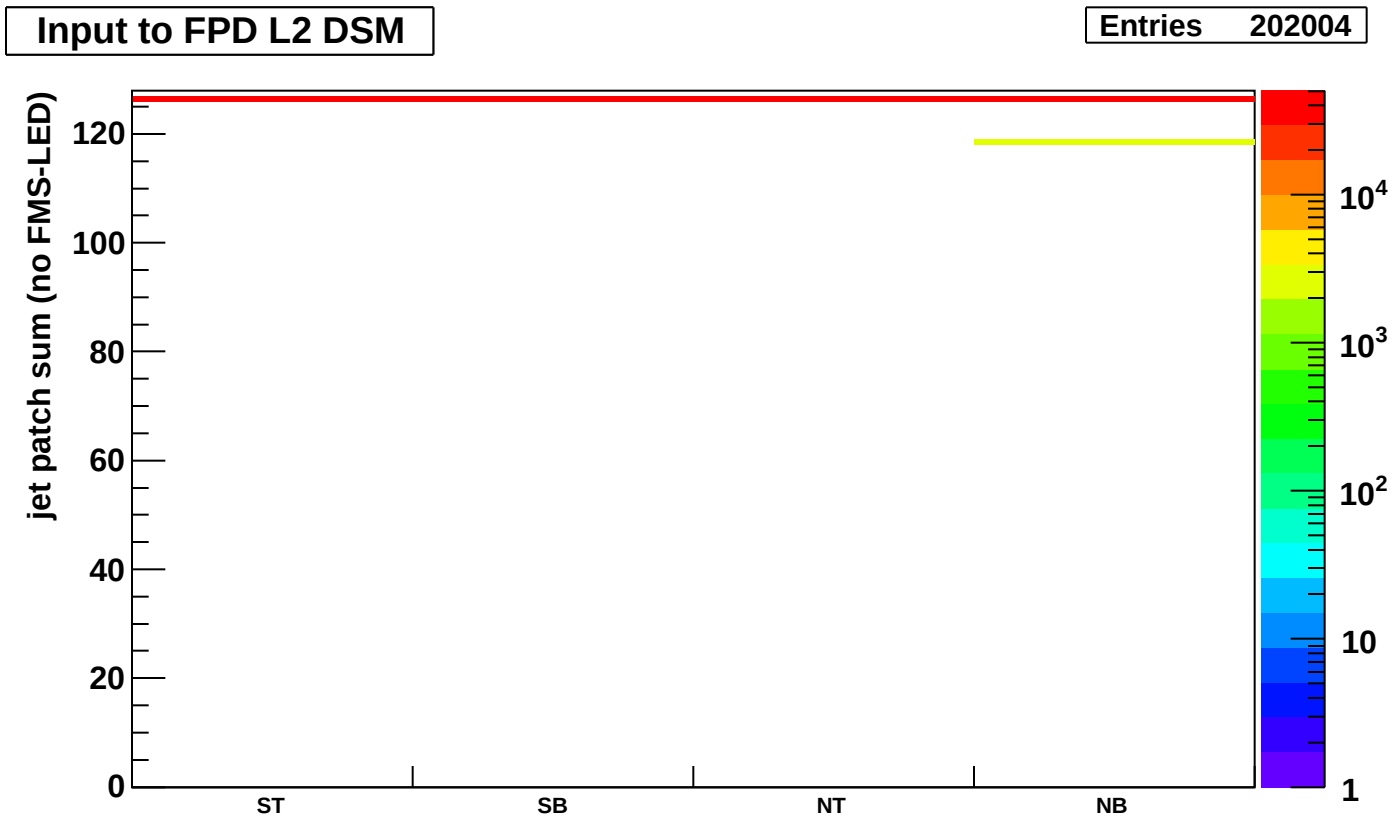

Input to FPD L2 DSM
Entries 404008
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

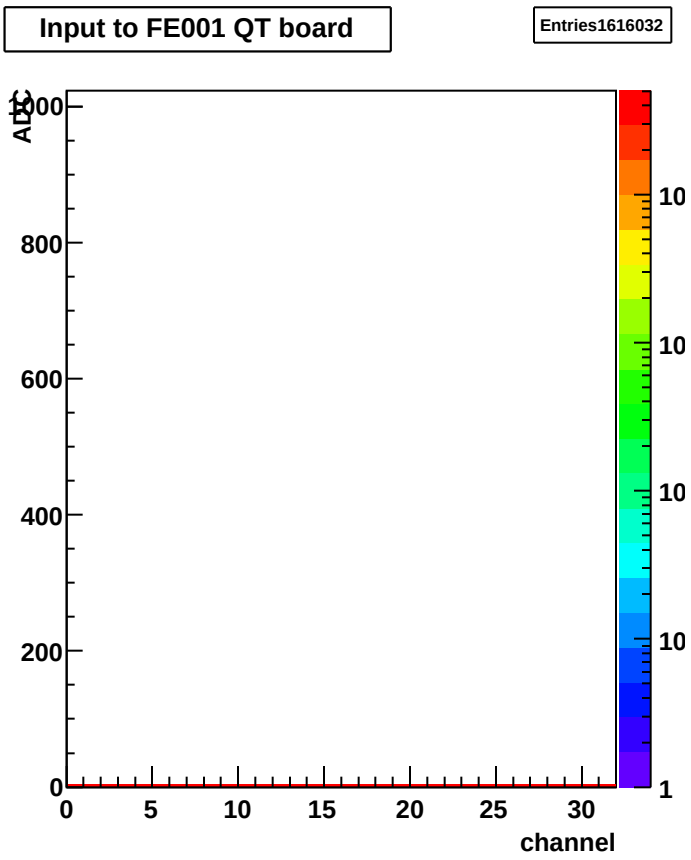

Input to FPD L2 DSM
Entries 151503
CL bits
50501
50501
50501
SMALL
LARGE-S
LARGE-N

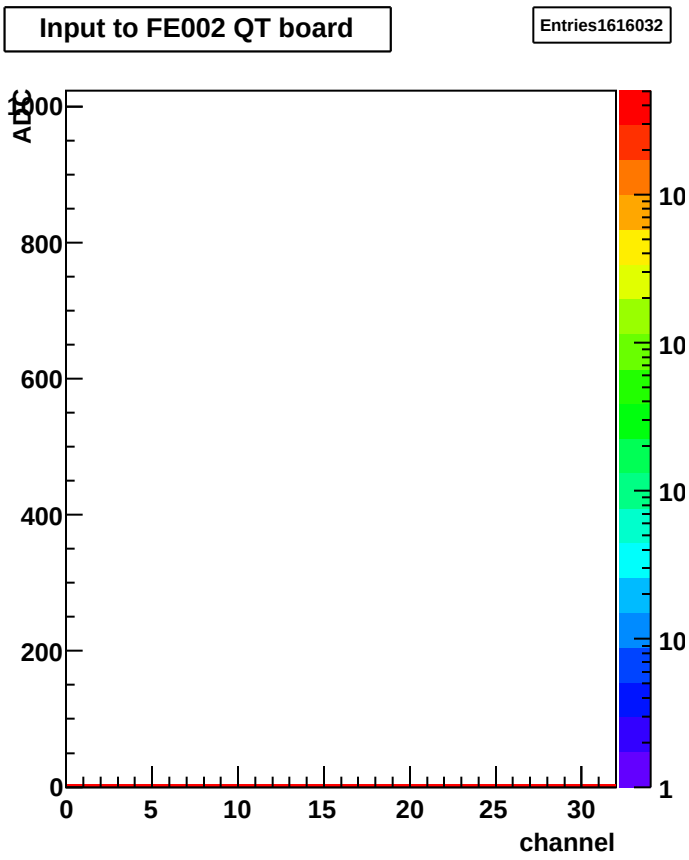

Input to FPD L2 DSM
Entries 151503
CL bits - simulated
50501
50501
50501
SMALL
LARGE-S
LARGE-N

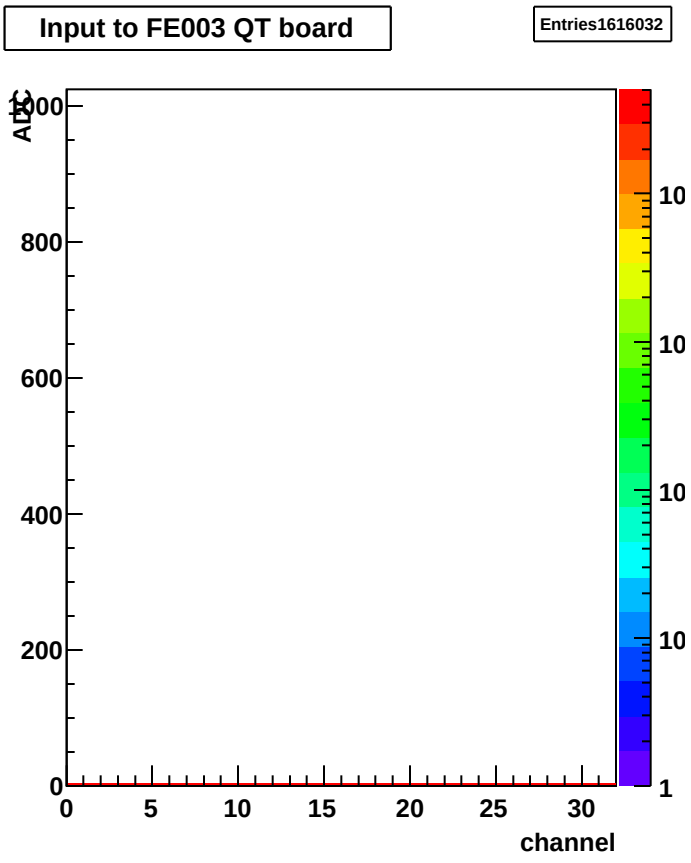

Input to FPD L2 DSM
Entries 151503
HT bits
50273
50501
50501
228
SMALL
LARGE-S
LARGE-N

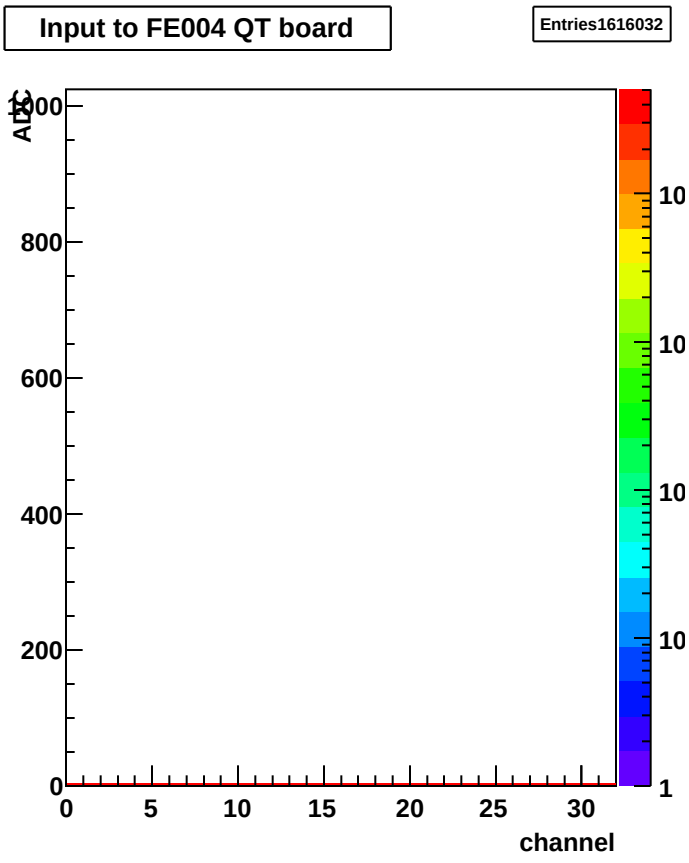

Input to FPD L2 DSM
Entries 151503
HT bits - simulated
50273
50501
50501
228
SMALL
LARGE-S
LARGE-N

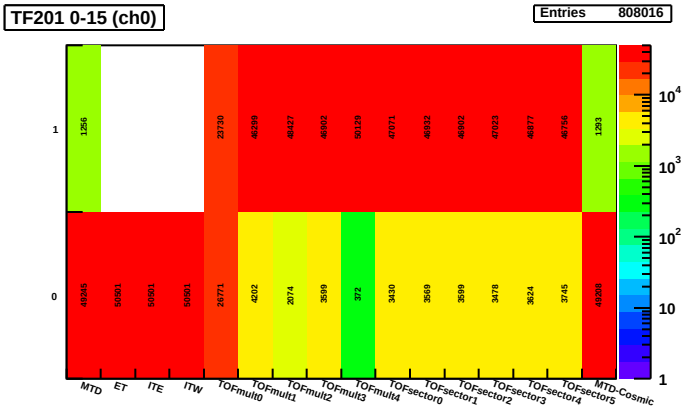

Input to FPD L2 DSM
Entries 202004
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

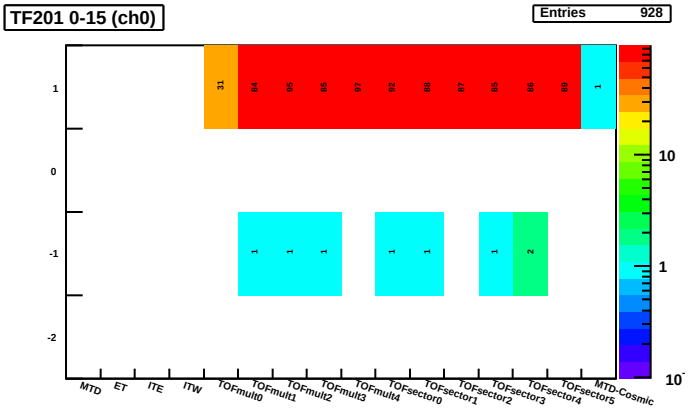

Input to FE001 QT board
Entries1616032
ADC
channel

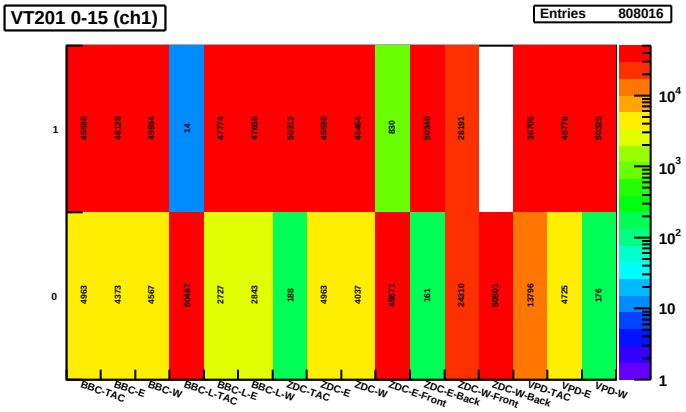

Input to FE002 QT board
Entries1616032
ADC
channel

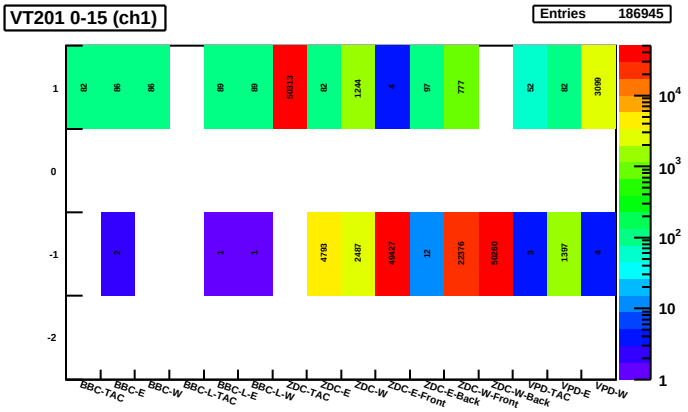

Input to FE003 QT board
Entries1616032
ADC
channel

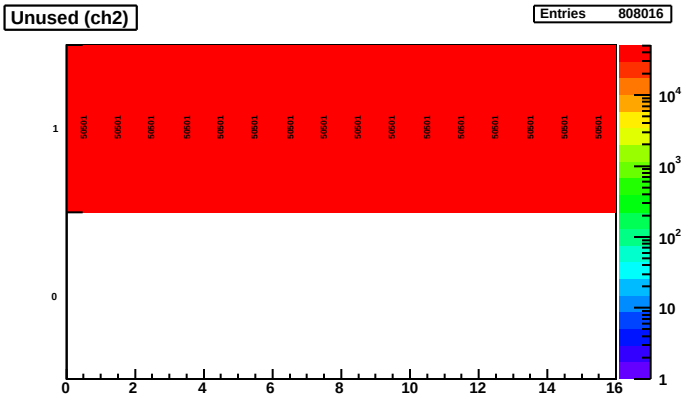

Input to FE004 QT board
Entries1616032
ADC
channel

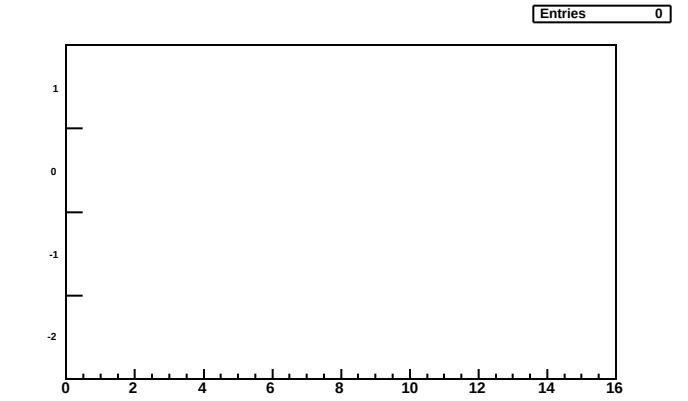

TF201 0-15 (ch0)
Entries 808016
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

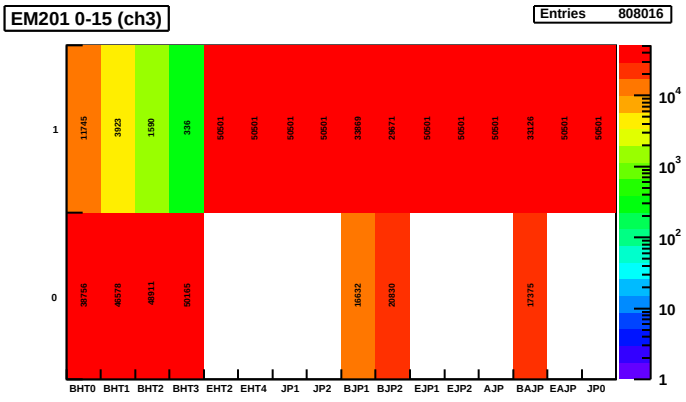

TF201 0-15 (ch0)
Entries 928
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

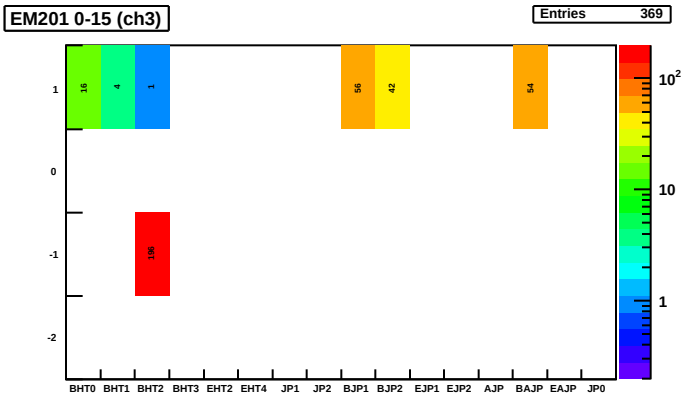

VT201 0-15 (ch1)
Entries 808016
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 186945
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

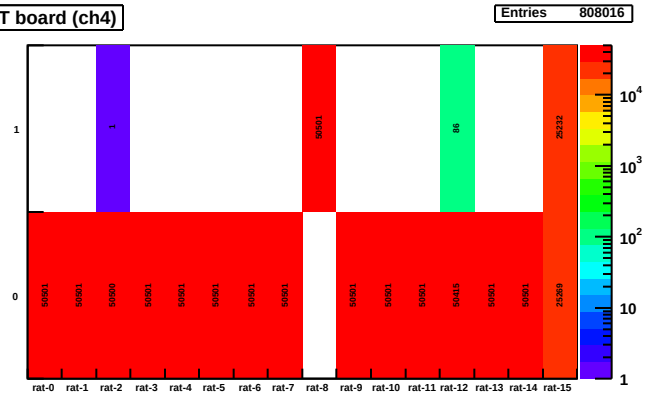

Unused (ch2)
Entries 808016

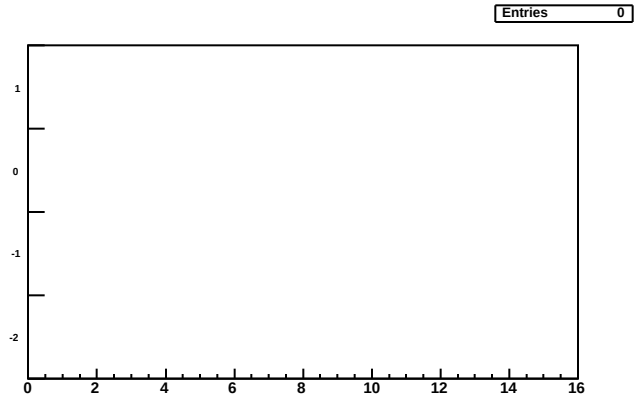

Entries 0


EM201 0-15 (ch3)
Entries 808016
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

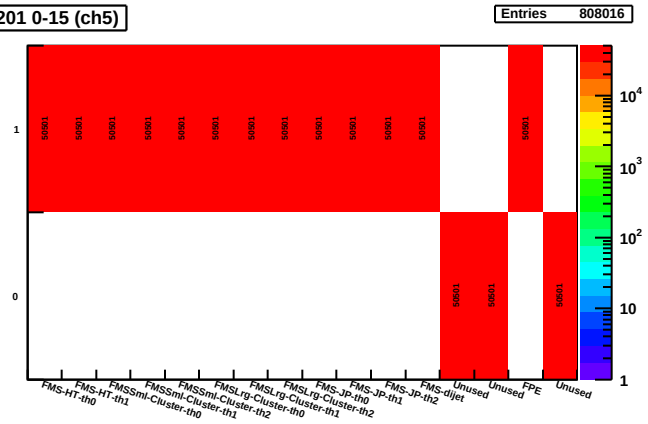

EM201 0-15 (ch3)
Entries 369
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

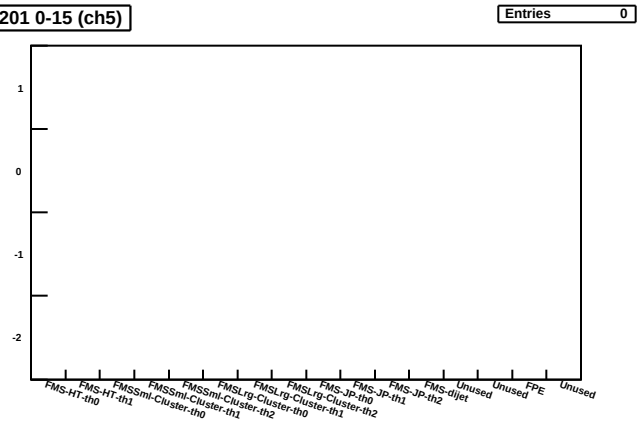




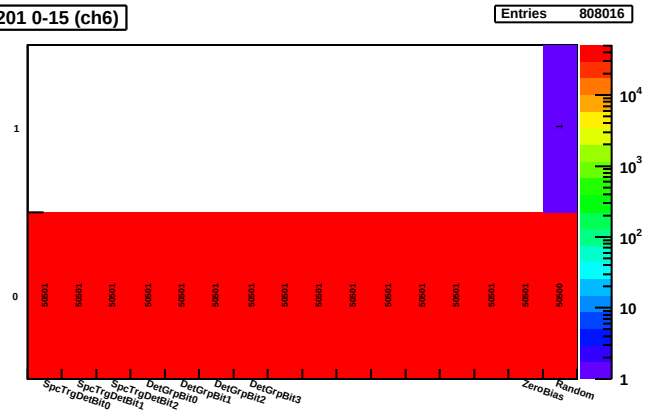
FP201 0-15 (ch5)

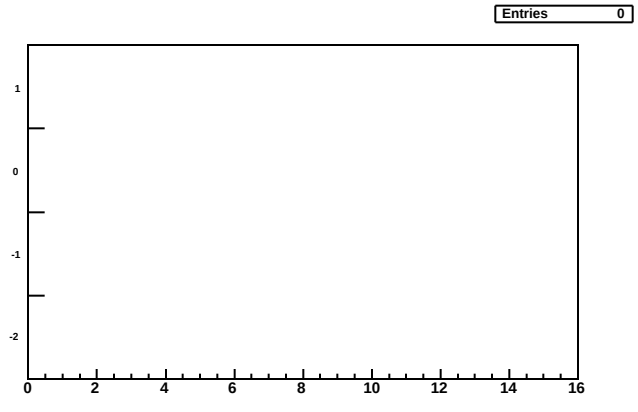
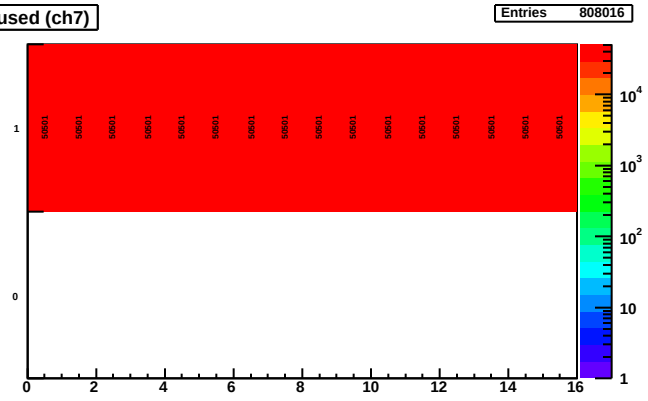
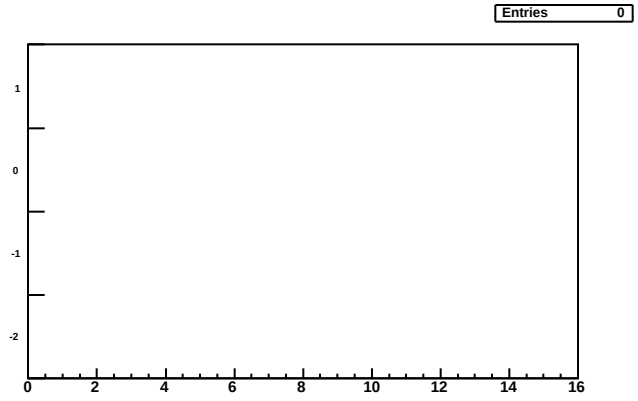


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)