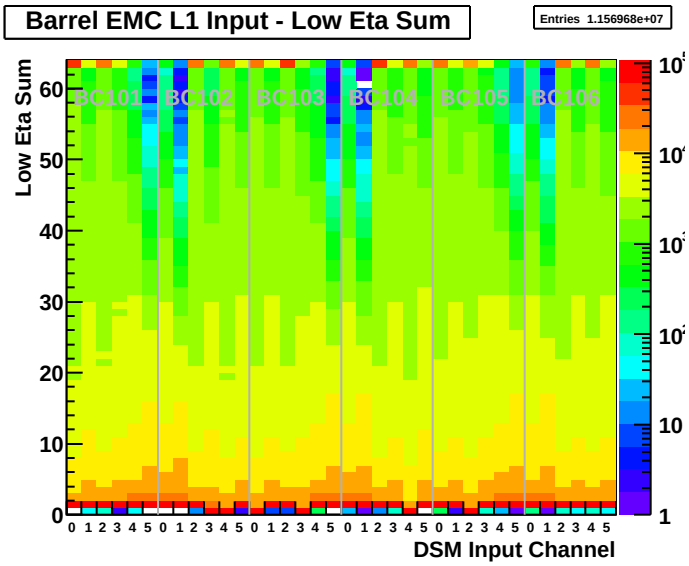
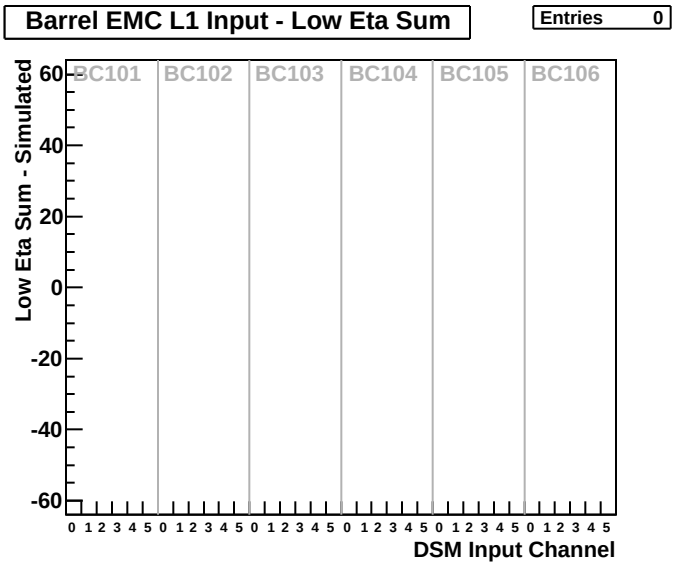
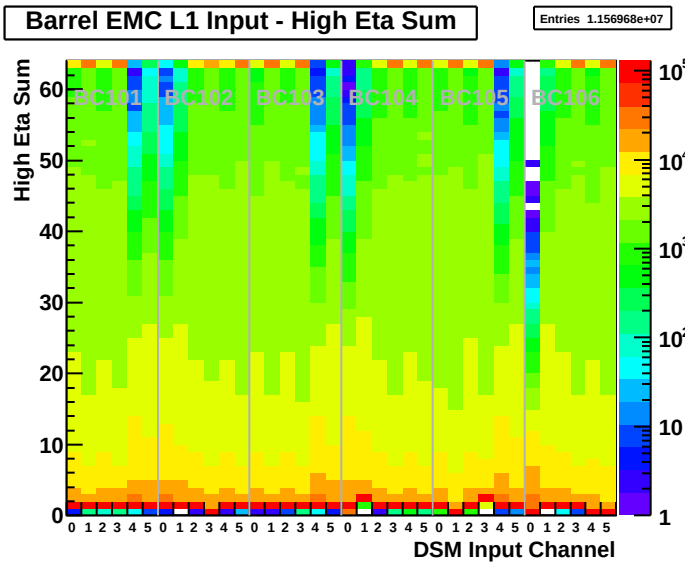
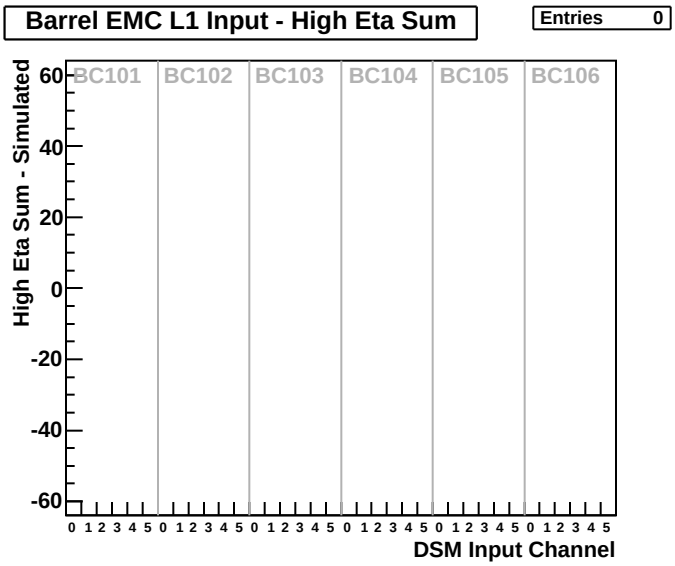
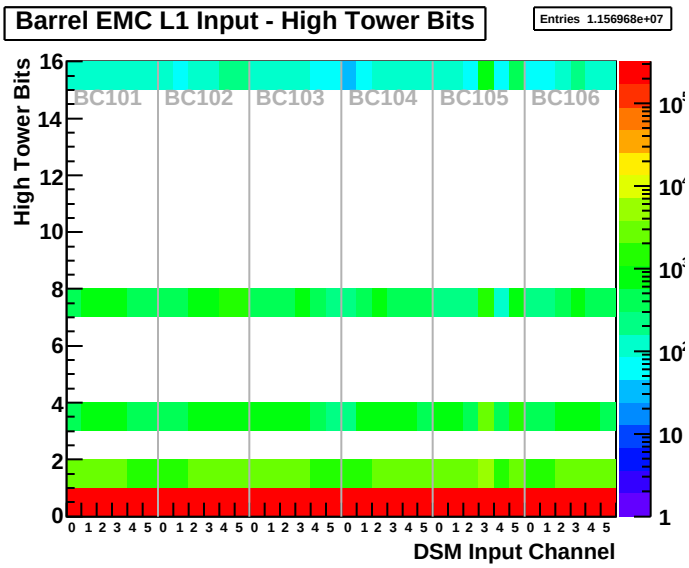
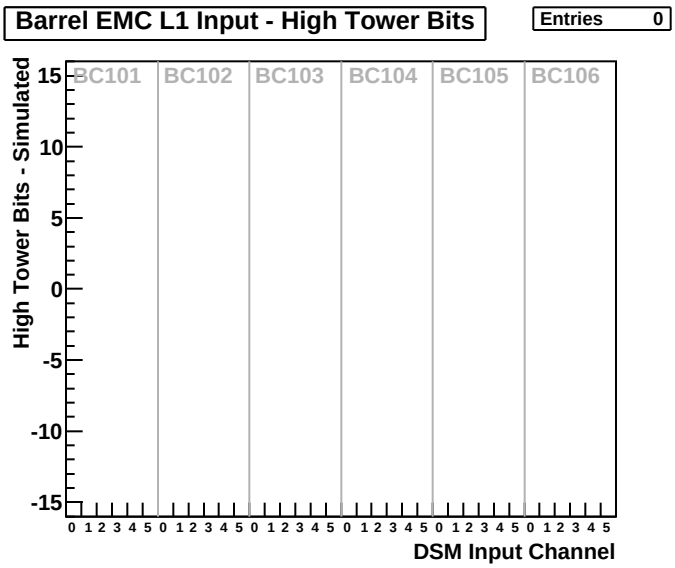

Barrel EMC L1 Input - Low Eta Sum
Entries 1.156968e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

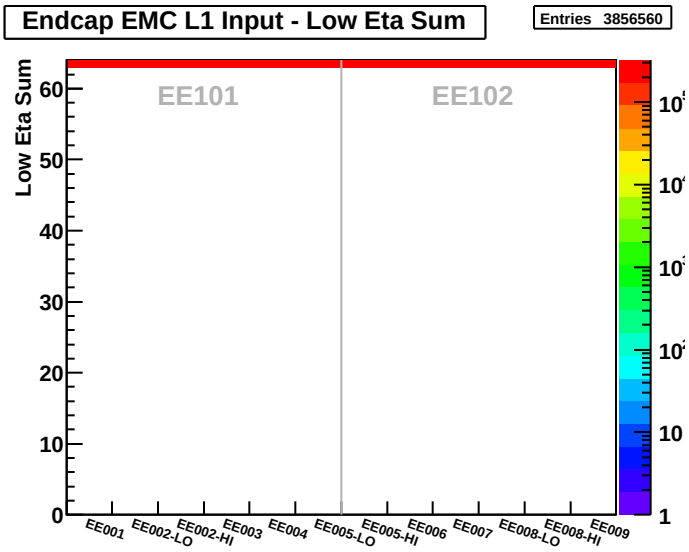

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

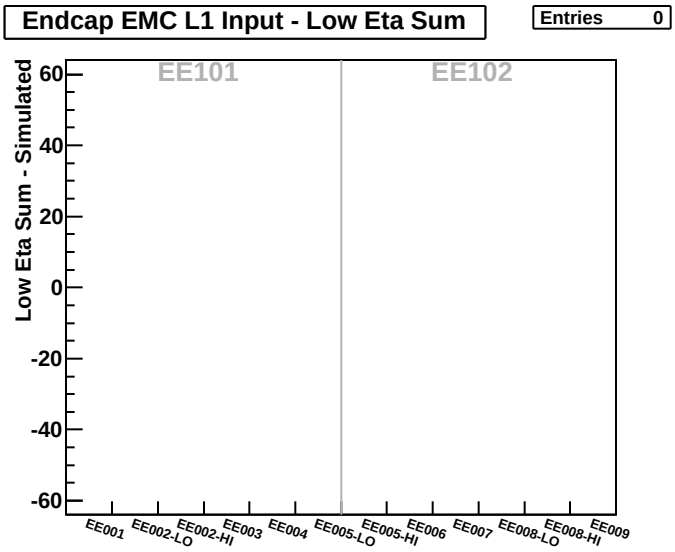

Barrel EMC L1 Input - High Eta Sum
Entries 1.156968e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

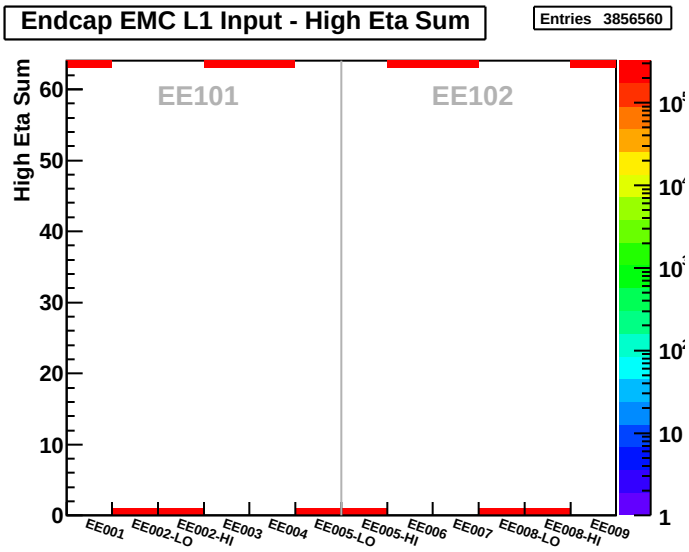

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

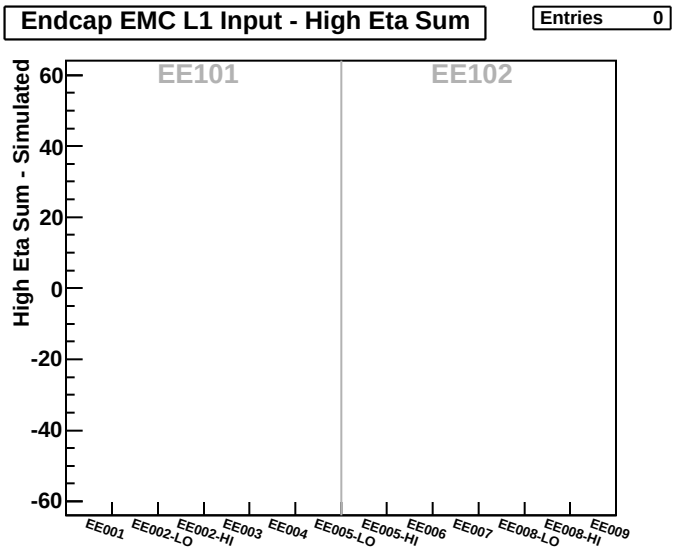

Barrel EMC L1 Input - High Tower Bits
Entries 1.156968e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

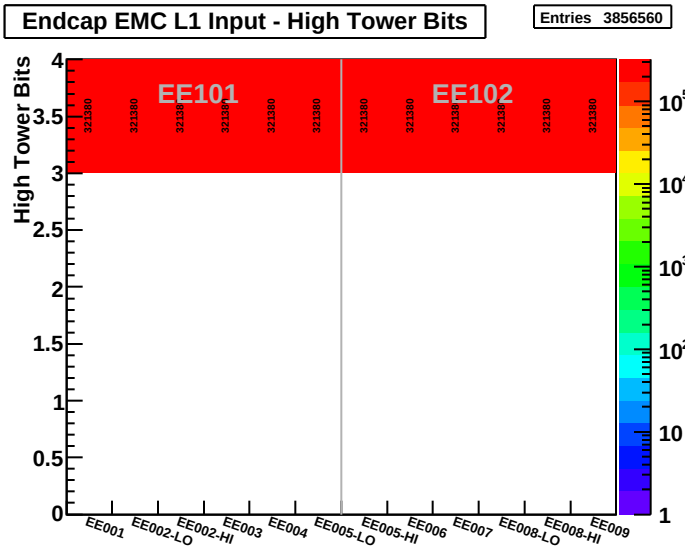

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

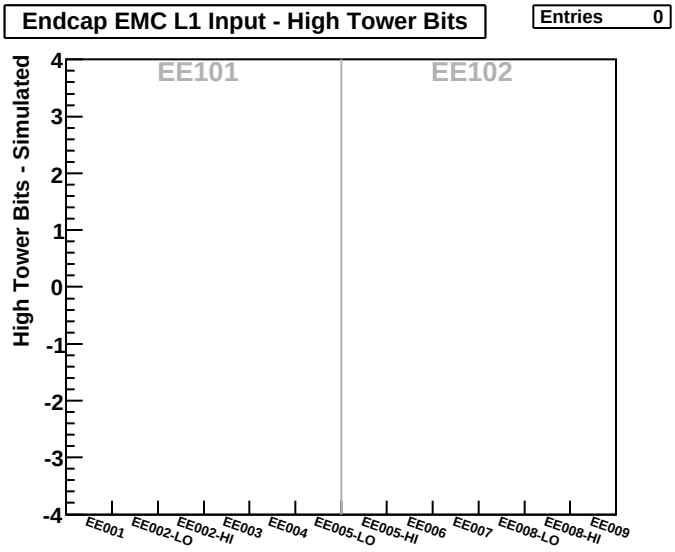

Endcap EMC L1 Input - Low Eta Sum
Entries 3856560
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

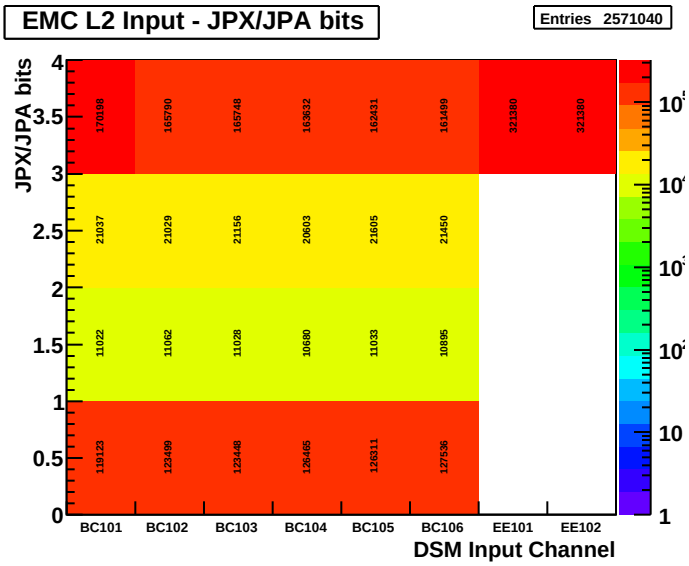

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

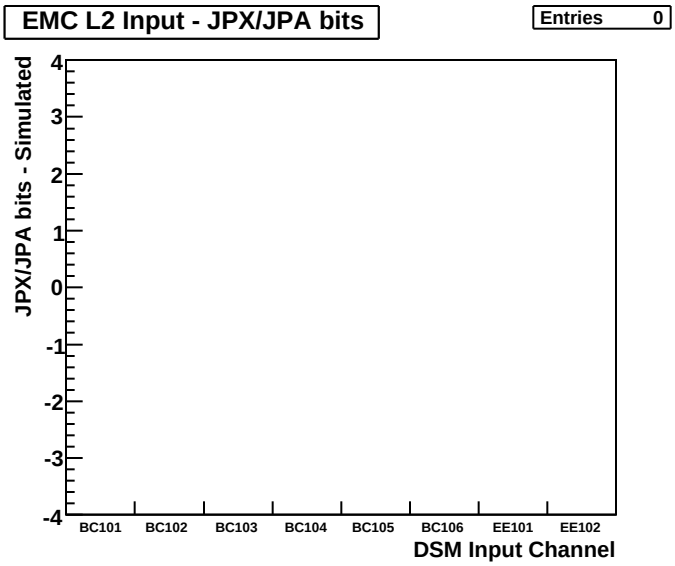

Endcap EMC L1 Input - High Eta Sum
Entries 3856560
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

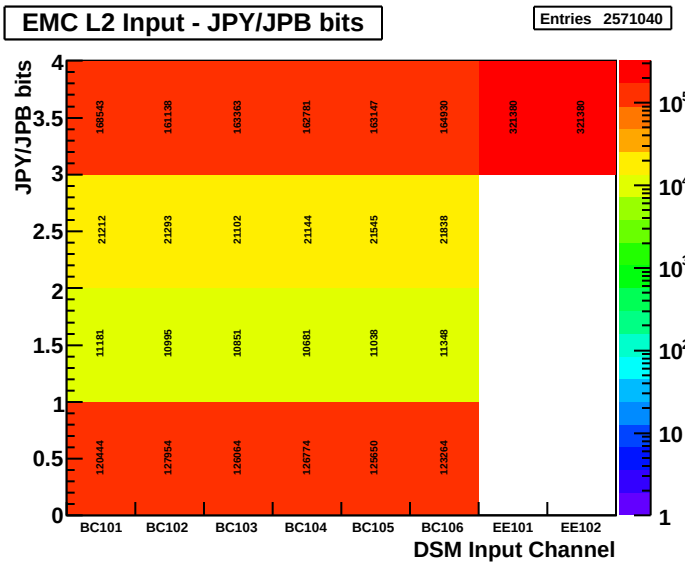

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

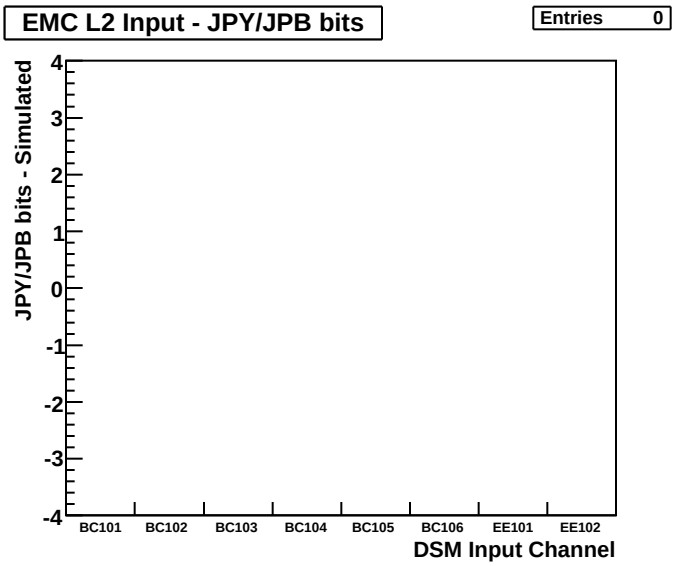

Endcap EMC L1 Input - High Tower Bits
Entries 3856560
High Tower Bits
EE101
EE102
321380
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

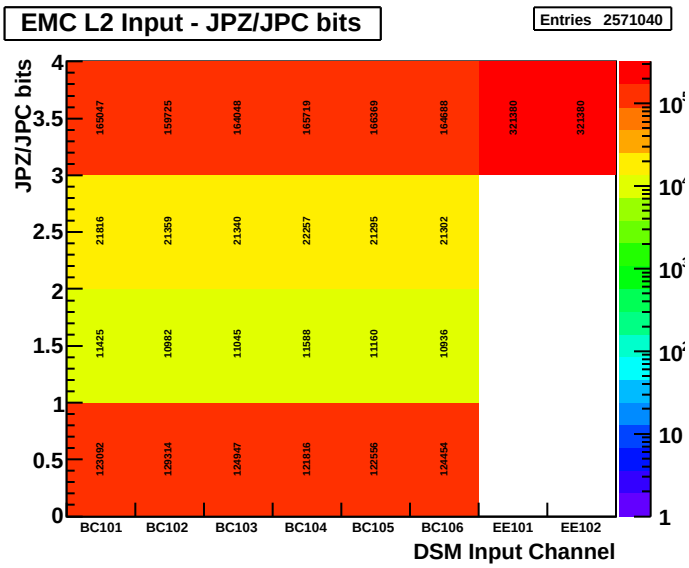

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

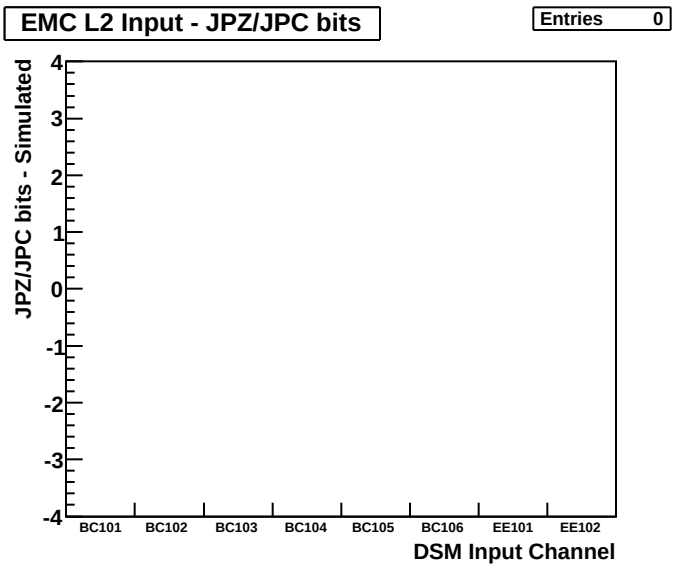

EMC L2 Input - JPX/JPA bits
Entries 2571040
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
170198 165790 165748 163632 162431 161499 321380 321380
21037 21029 21156 20603 21605 21450
11022 11062 11028 10680 11033 10895
119123 123499 122448 126465 126311 127536

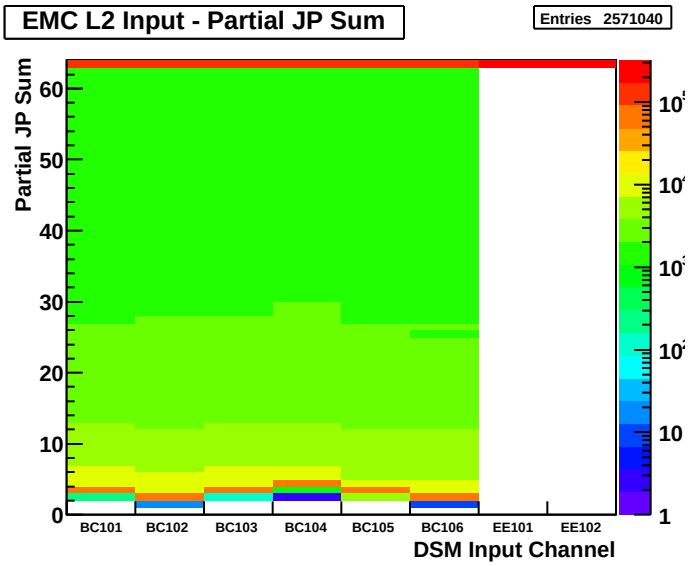

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

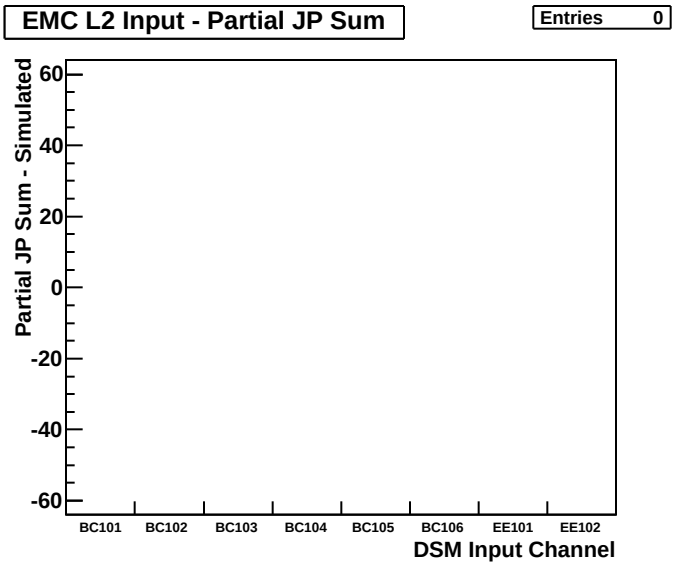

EMC L2 Input - JPY/JPB bits
Entries 2571040
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
168543 161138 163363 162781 163147 164930 321380 321380
21212 21293 21102 21144 21545 21838
11181 10995 10851 10681 11038 11348
120444 127954 126064 126774 125650 123264

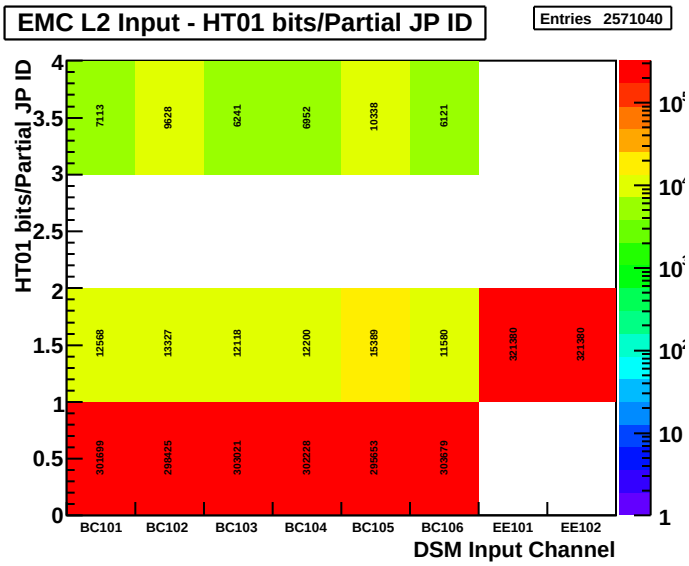

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

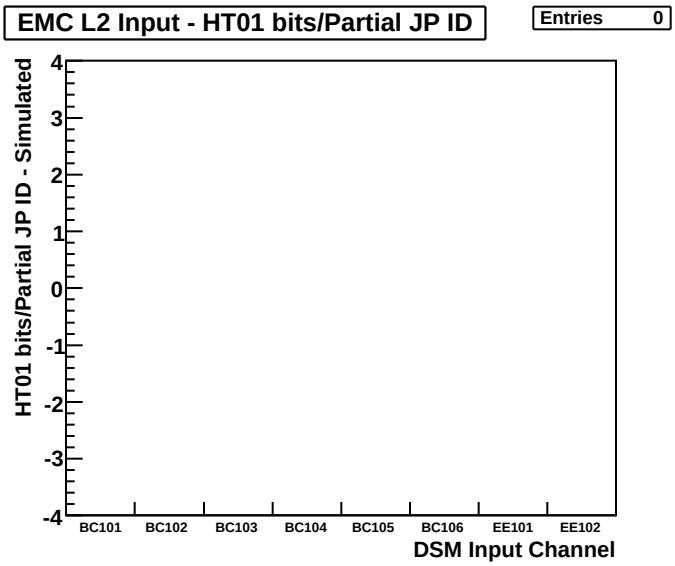

EMC L2 Input - JPZ/JPC bits
Entries 2571040
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
165047 159725 164048 165719 166369 164688 321380 321380
21816 21359 21340 22257 21295 21302
11425 10982 11045 11588 11160 10936
123092 129314 124947 121816 122556 124454

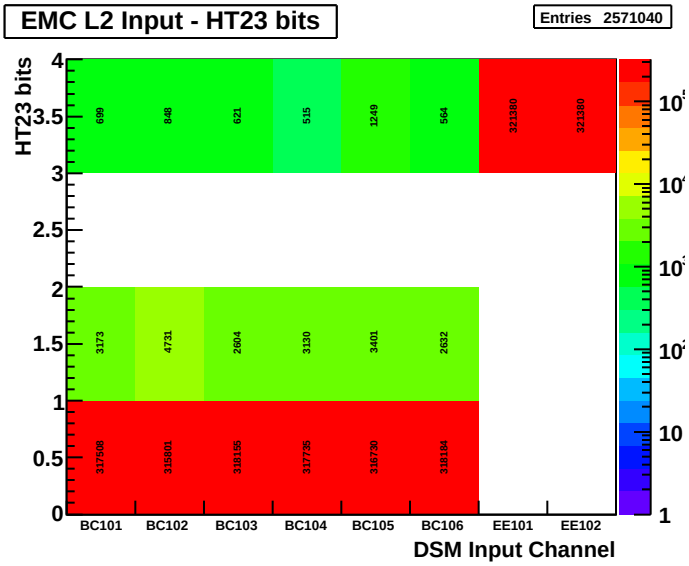

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

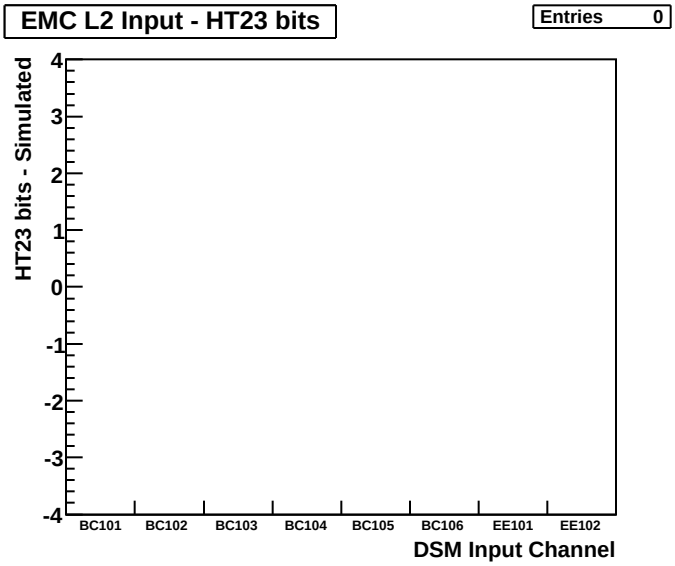

EMC L2 Input - Partial JP Sum
Entries 2571040
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

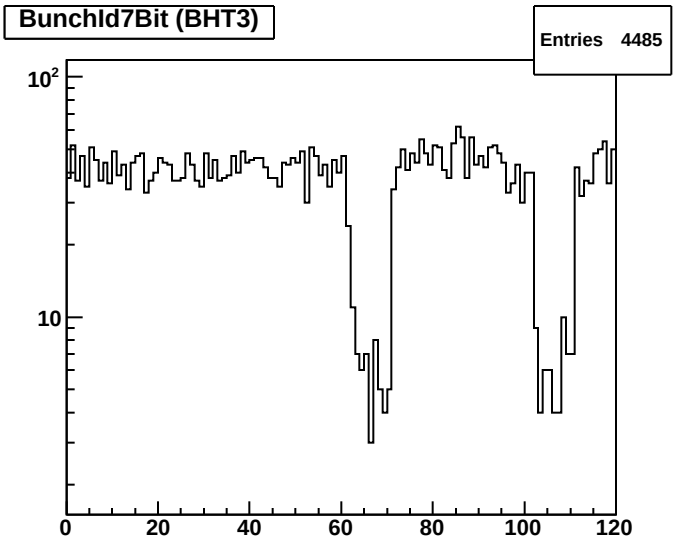

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

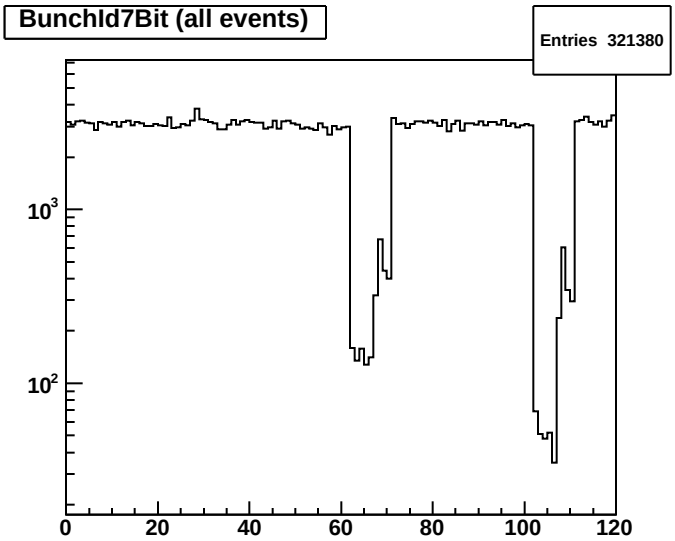

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2571040
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

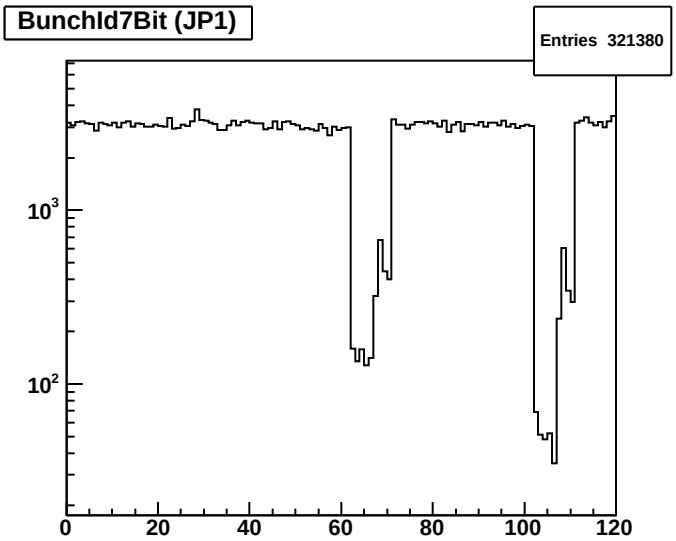

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

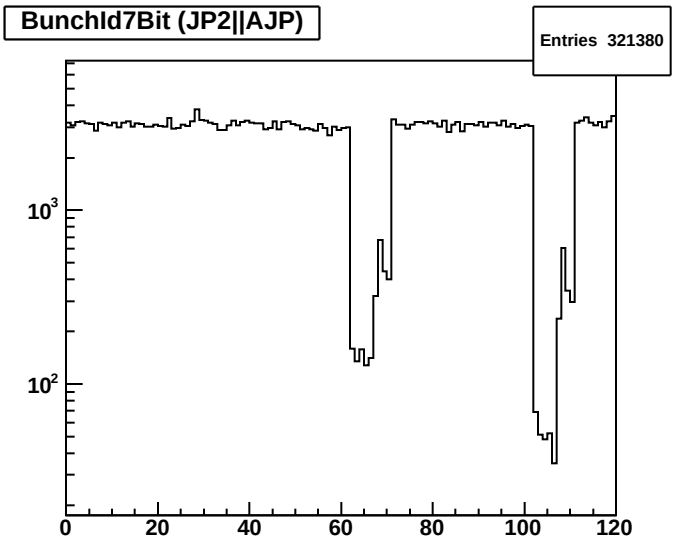

EMC L2 Input - HT23 bits
Entries 2571040
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

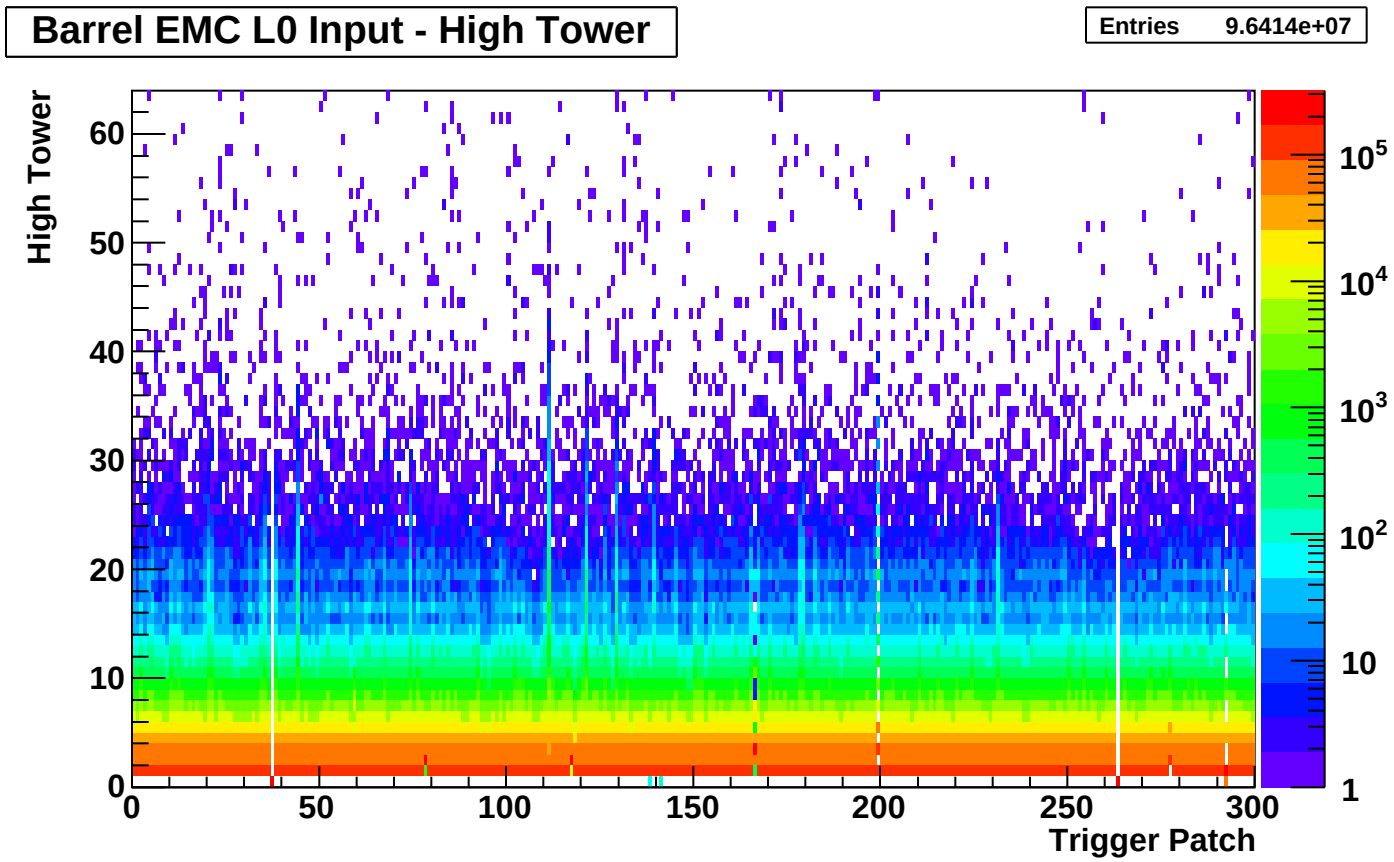

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

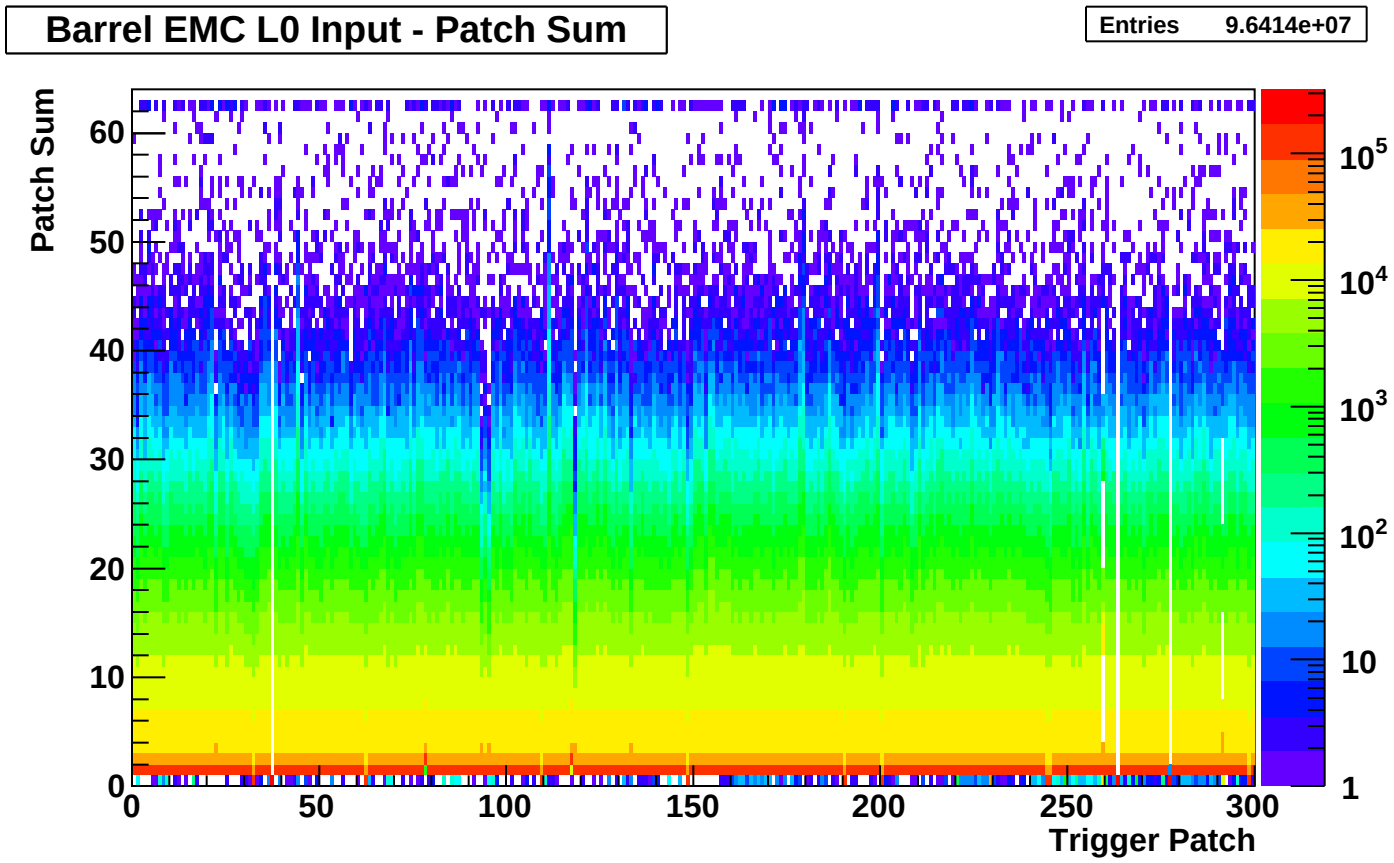

BunchId7Bit (BHT3)
Entries 4485
10^2
10
0
20
40
60
80
100
120

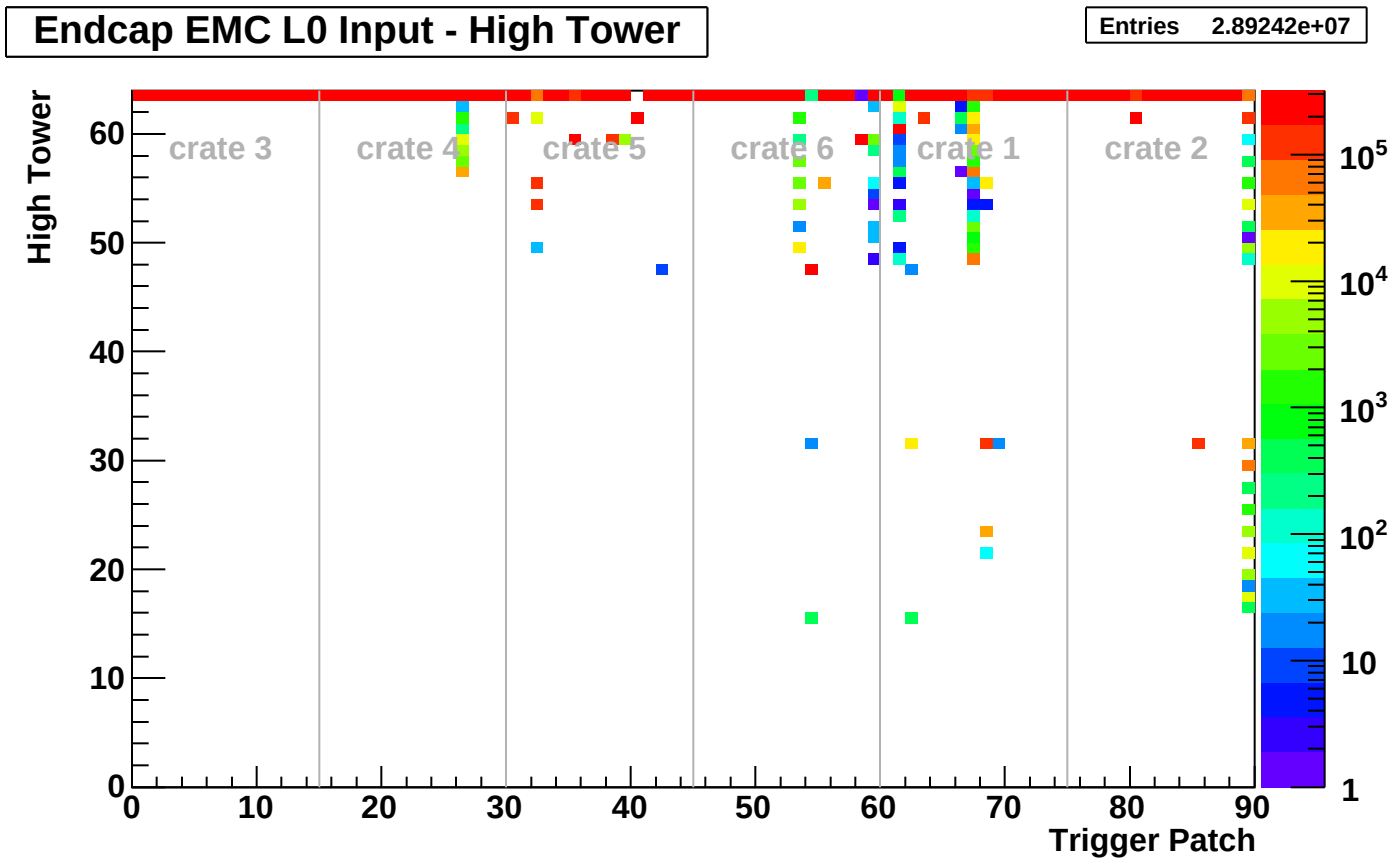

BunchId7Bit (all events)
Entries 321380
10^3
10^2
0
20
40
60
80
100
120

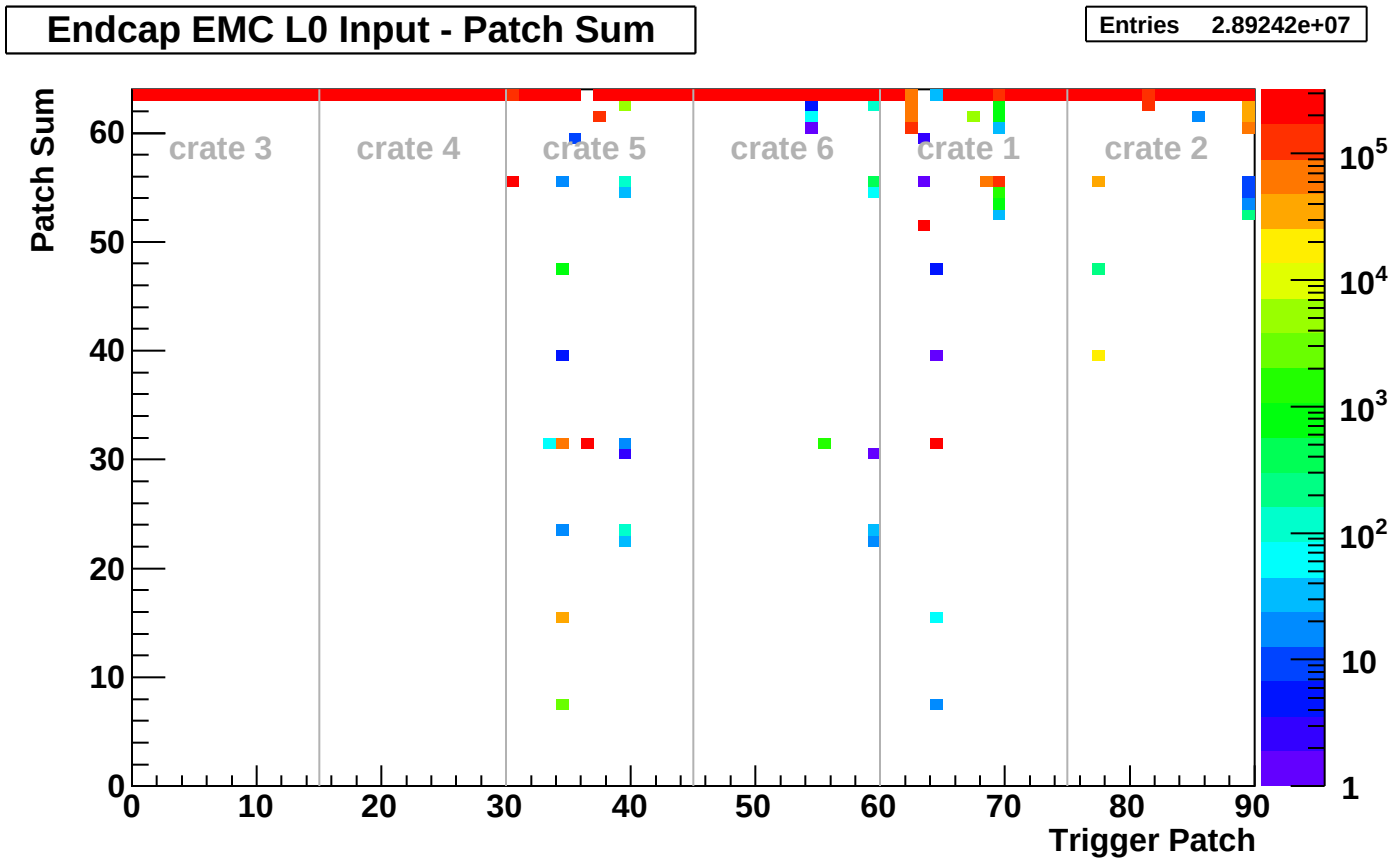

BunchId7Bit (JP1)
Entries 321380
10^3
10^2
0
20
40
60
80
100
120

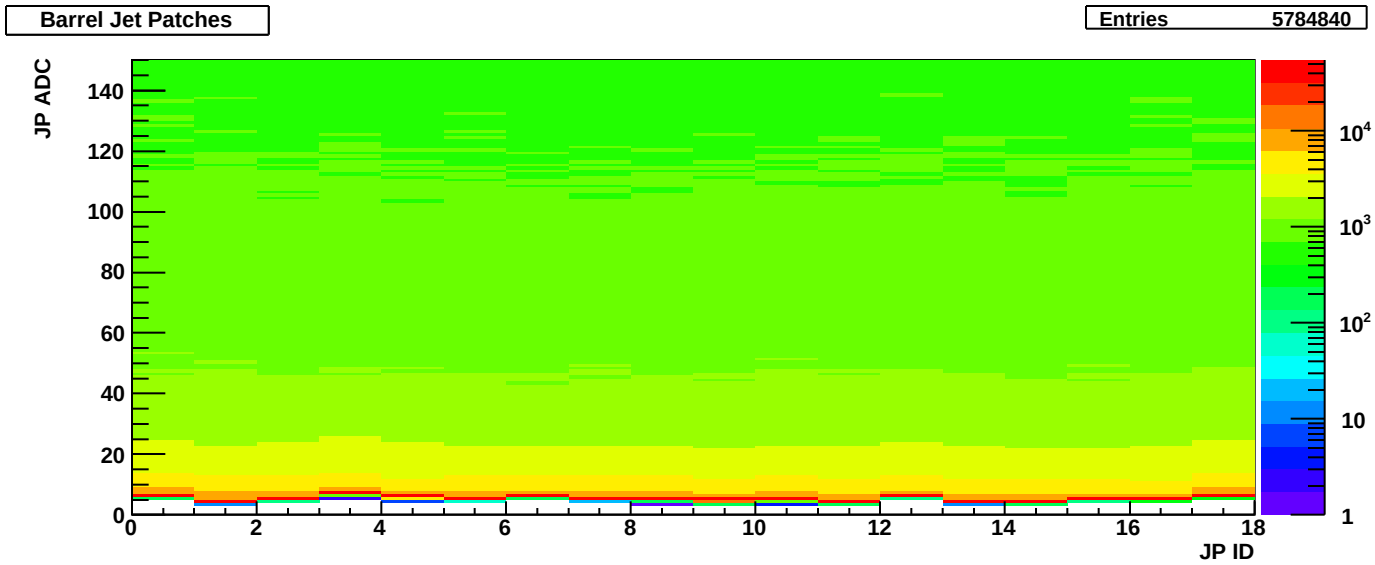

BunchId7Bit (JP2||AJP)
Entries 321380
10^3
10^2
0
20
40
60
80
100
120

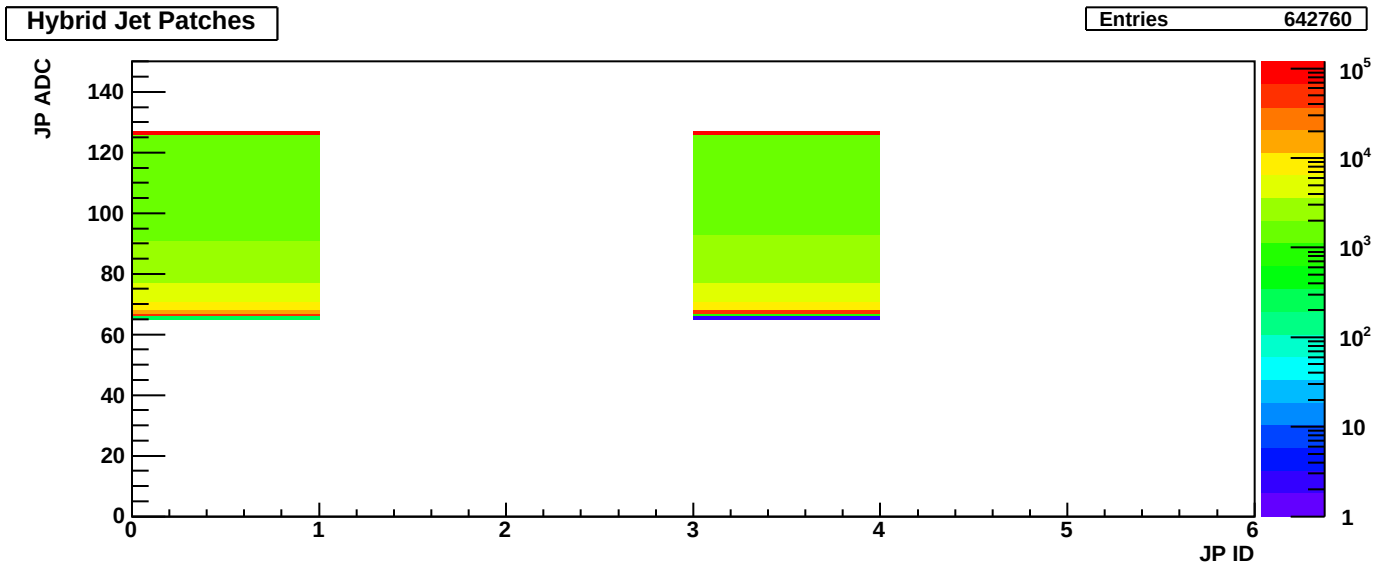

Barrel EMC L0 Input - High Tower
Entries 9.6414e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

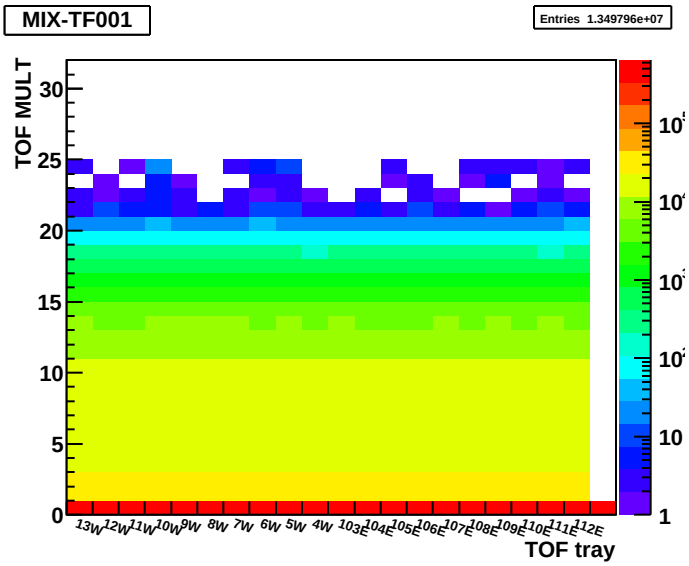

Barrel EMC L0 Input - Patch Sum
Entries 9.6414e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

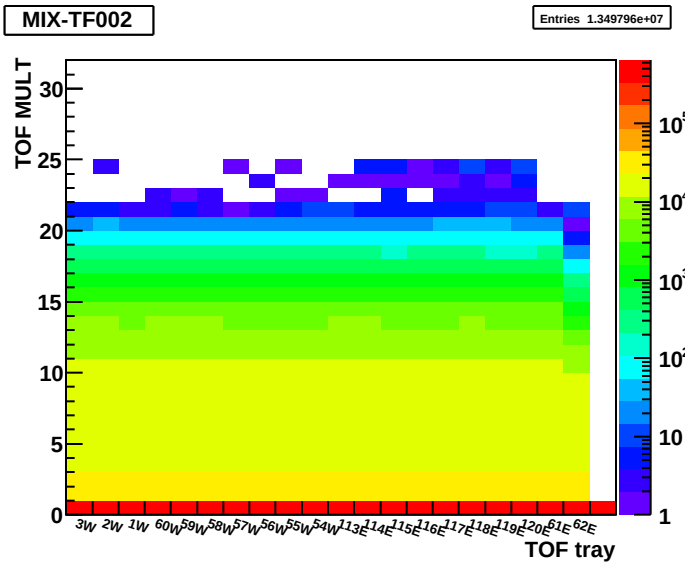

Endcap EMC L0 Input - High Tower
Entries 2.89242e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

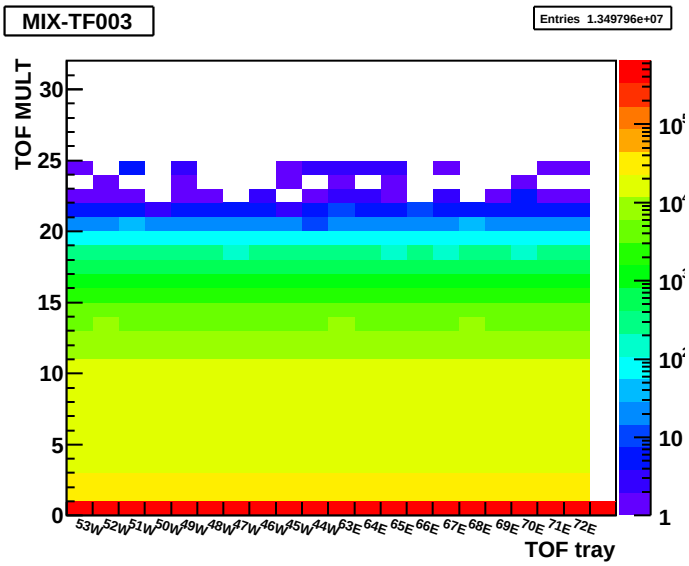

Endcap EMC L0 Input - Patch Sum
Entries 2.89242e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

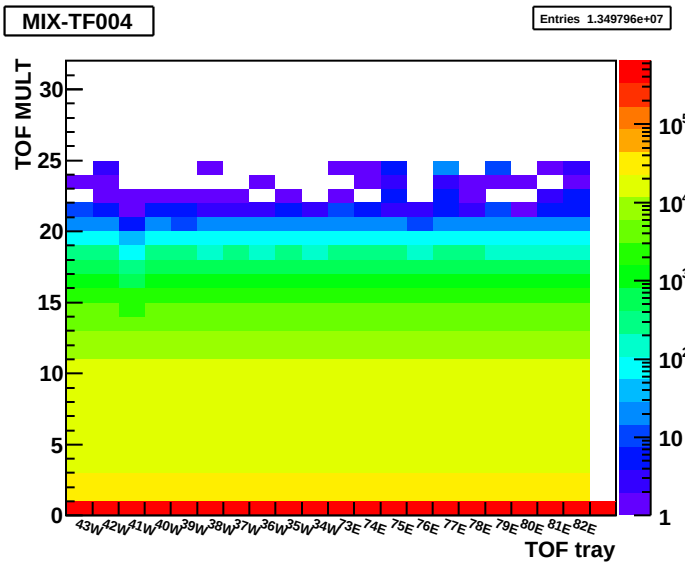

Barrel Jet Patches
Entries 5784840
JP ADC
JP ID

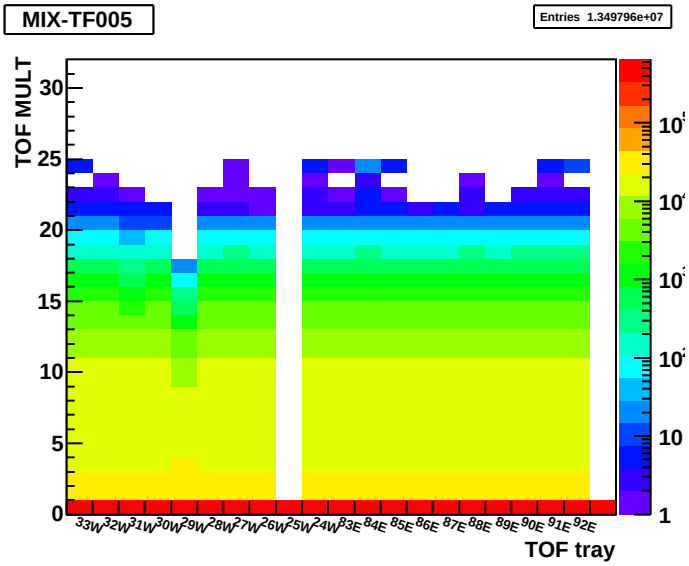

Hybrid Jet Patches
Entries 642760
JP ADC
JP ID

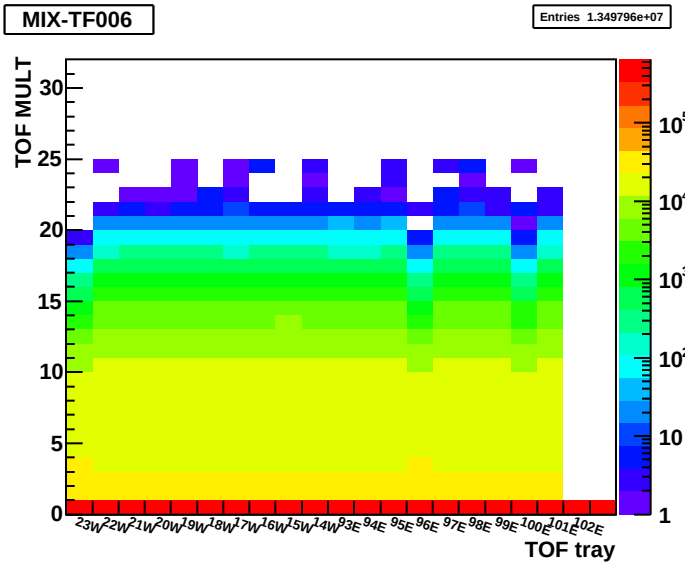

MIX-TF001
Entries 1.349796e+07
TOF MULT
TOF tray

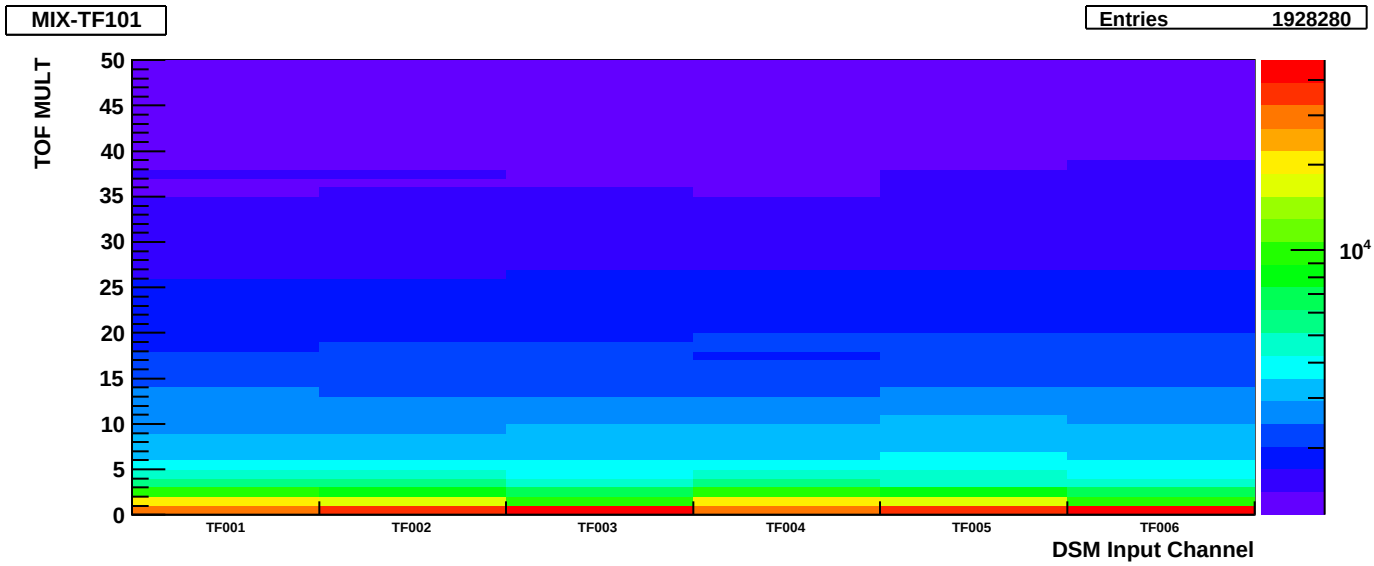

MIX-TF002
Entries 1.349796e+07
TOF MULT
TOF tray

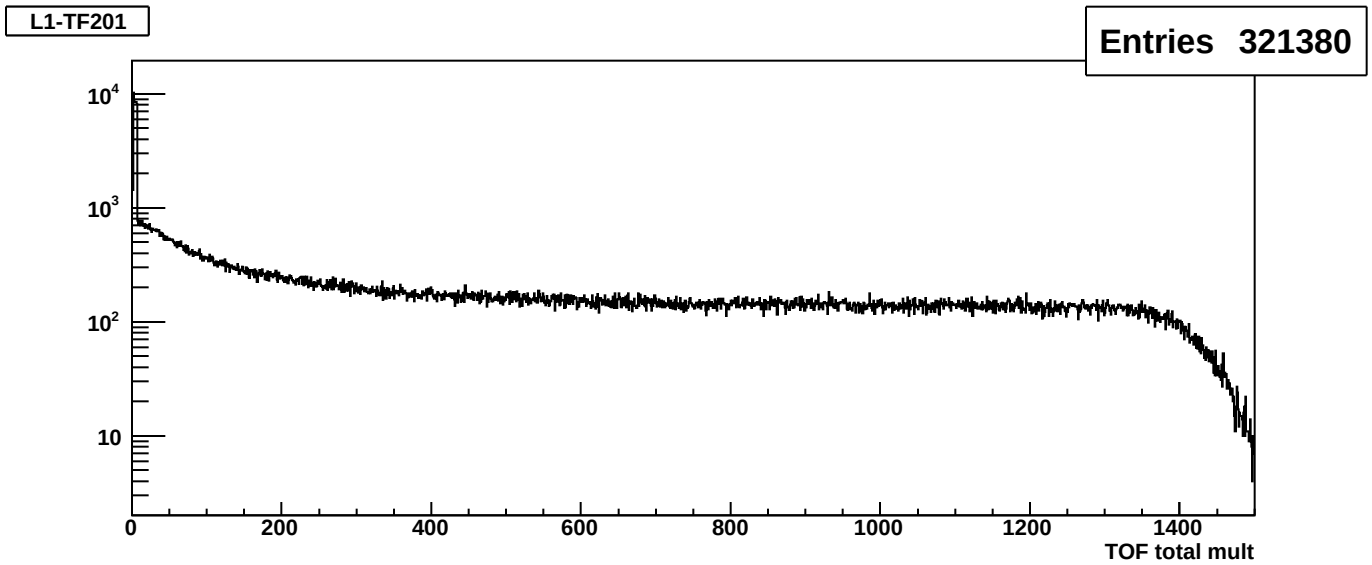

MIX-TF003
Entries 1.349796e+07
TOF MULT
TOF tray

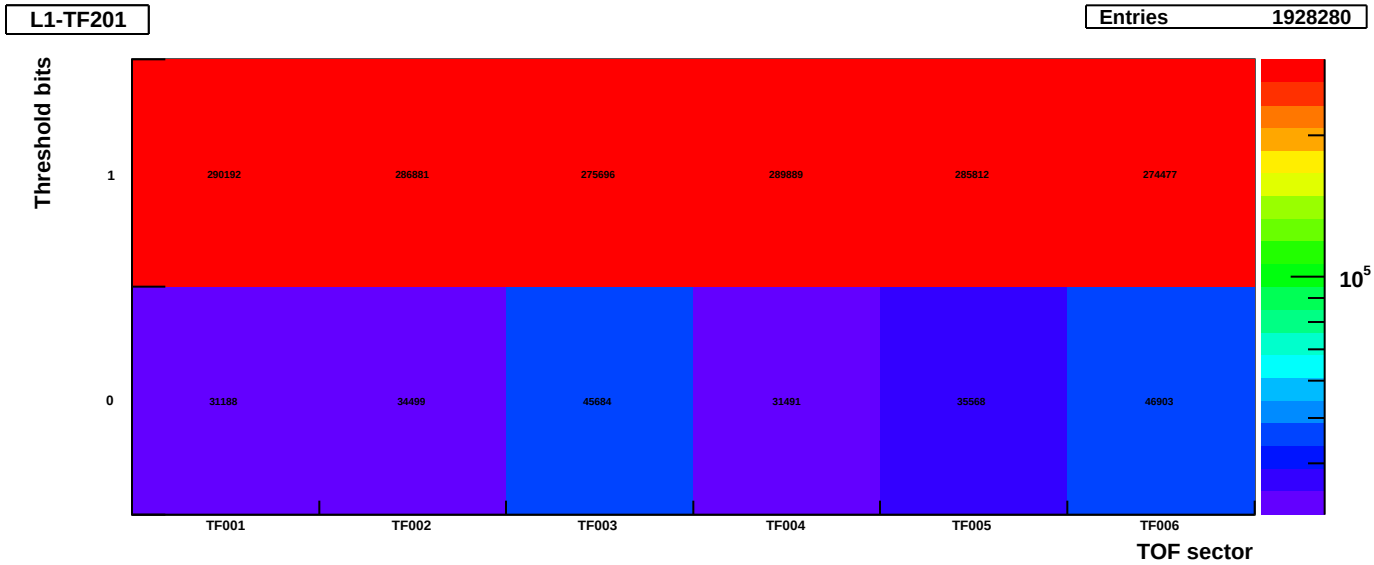

MIX-TF004
Entries 1.349796e+07
TOF MULT
TOF tray

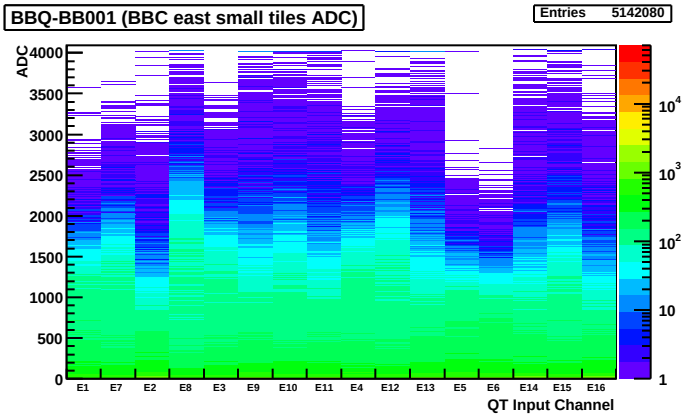

MIX-TF005
Entries 1.349796e+07
TOF MULT
TOF tray

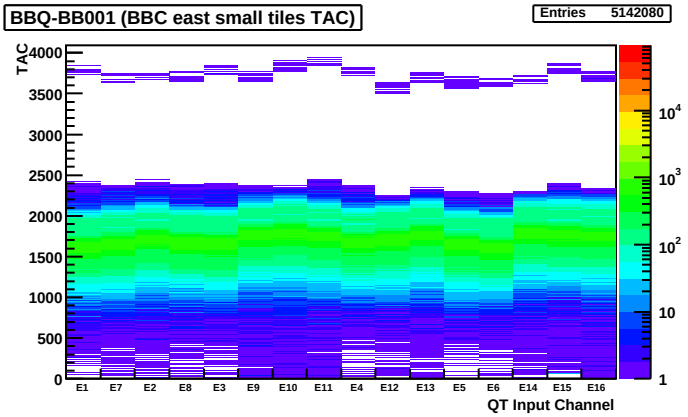

MIX-TF006
Entries 1.349796e+07
TOF MULT
TOF tray

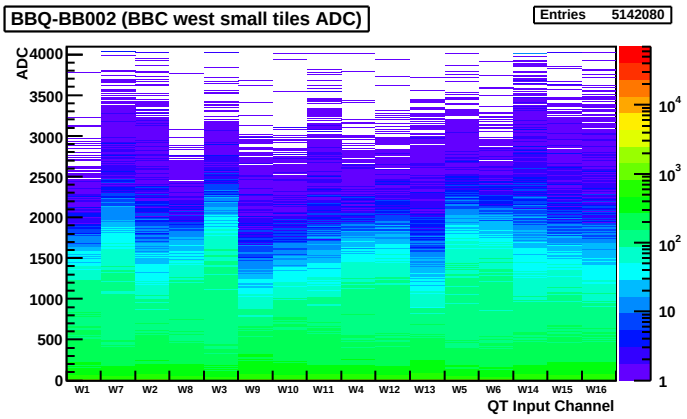

MIX-TF101
Entries 1928280
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

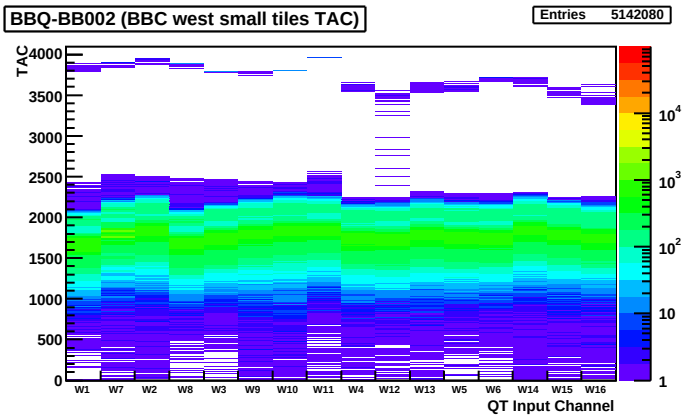

L1-TF201
Entries 321380
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

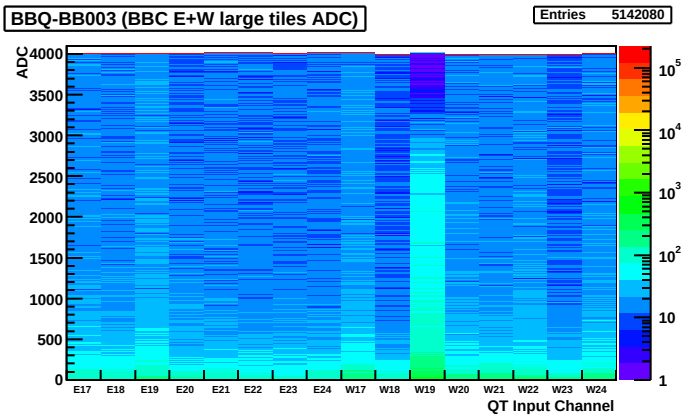

L1-TF201
Entries 1928280
Threshold bits
1
0
290192
286881
275696
289889
285812
274477
31188
34499
45684
31491
35568
46903
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

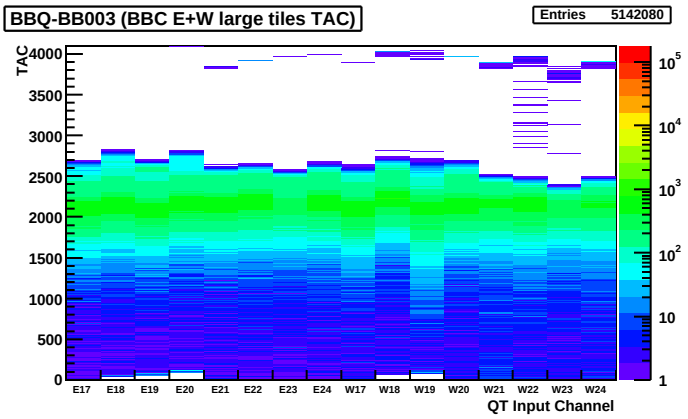

BBQ-BB001 (BBC east small tiles ADC)
Entries 5142080
ADC
QT Input Channel

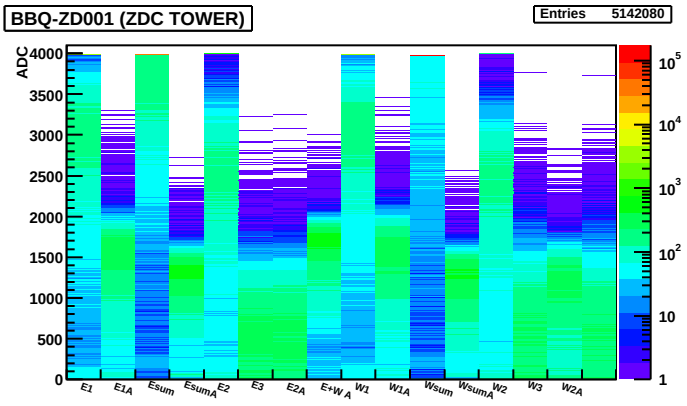

BBQ-BB001 (BBC east small tiles TAC)
Entries 5142080
TAC
QT Input Channel

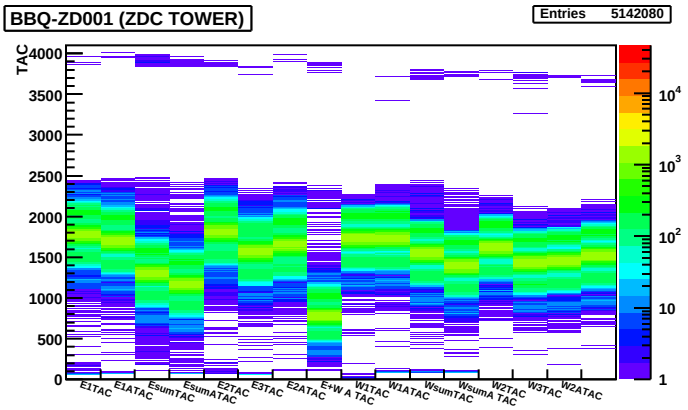

BBQ-BB002 (BBC west small tiles ADC)
Entries 5142080
ADC
QT Input Channel

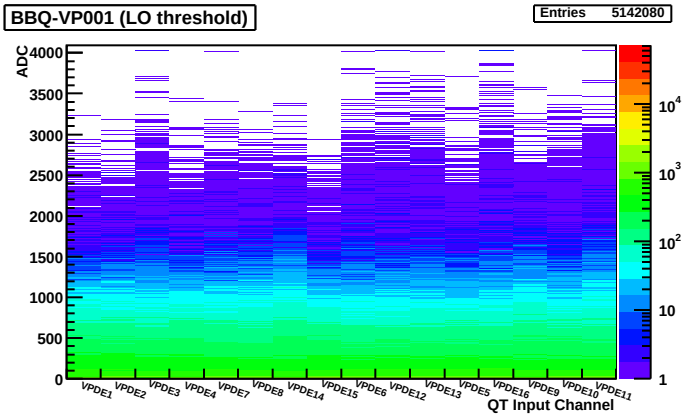

BBQ-BB002 (BBC west small tiles TAC)
Entries 5142080
TAC
QT Input Channel

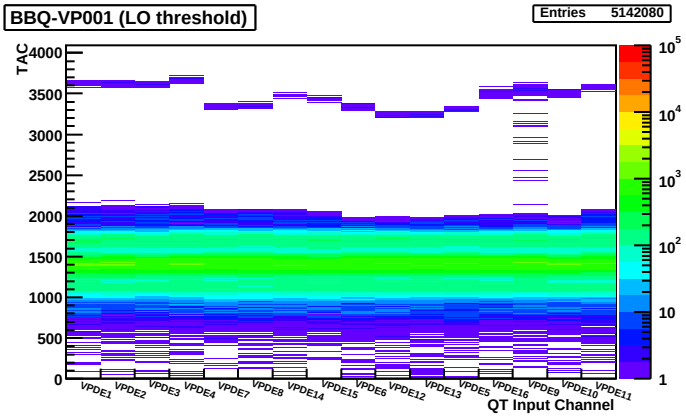

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 5142080
ADC
QT Input Channel

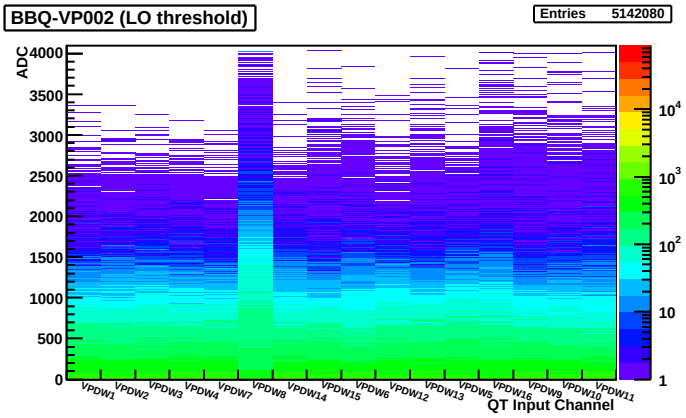

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 5142080
TAC
QT Input Channel

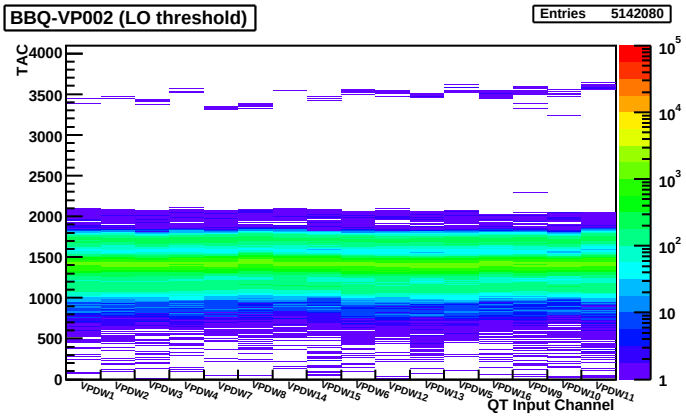

BBQ-ZD001 (ZDC TOWER)
Entries 5142080
ADC

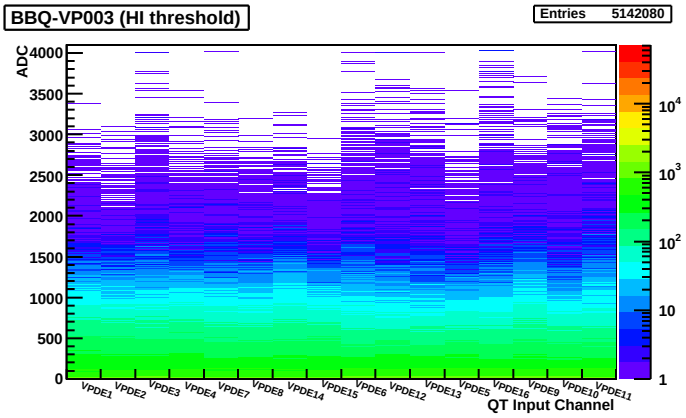

BBQ-ZD001 (ZDC TOWER)
Entries 5142080
TAC

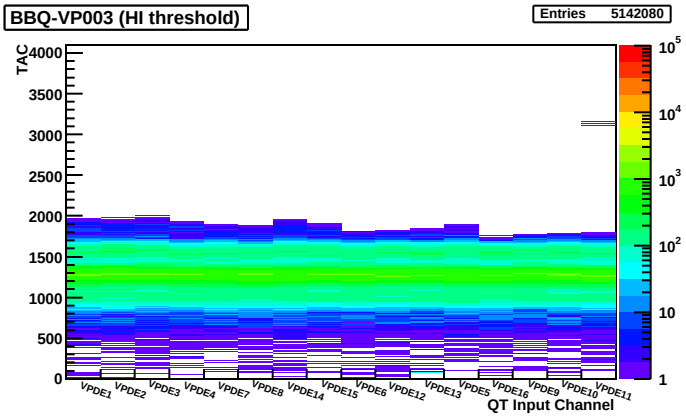

BBQ-VP001 (LO threshold)
Entries 5142080
ADC
QT Input Channel

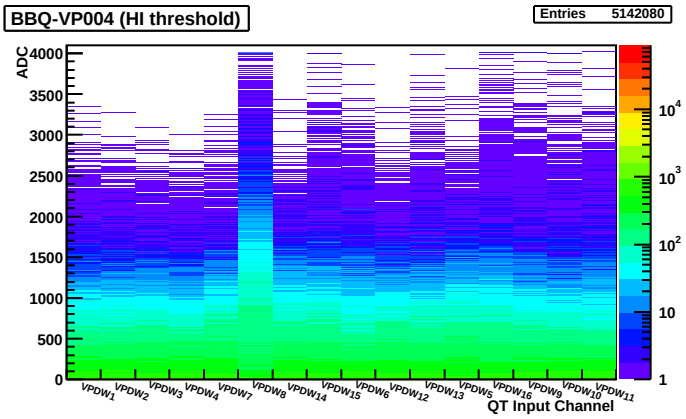

BBQ-VP001 (LO threshold)
Entries 5142080
TAC
QT Input Channel

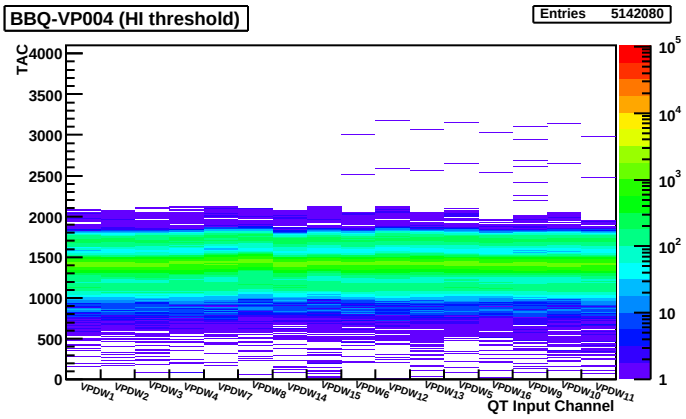

BBQ-VP002 (LO threshold)
Entries 5142080
ADC
QT Input Channel

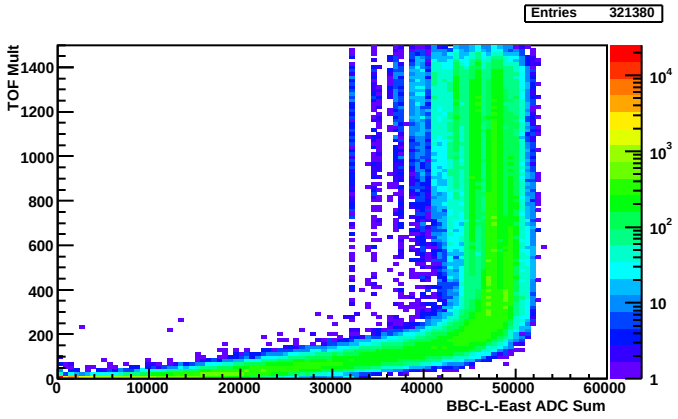

BBQ-VP002 (LO threshold)
Entries 5142080
TAC
QT Input Channel

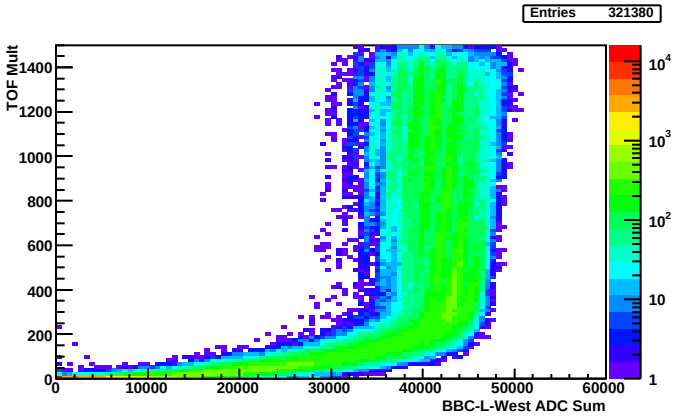

BBQ-VP003 (HI threshold)
Entries 5142080
ADC
QT Input Channel

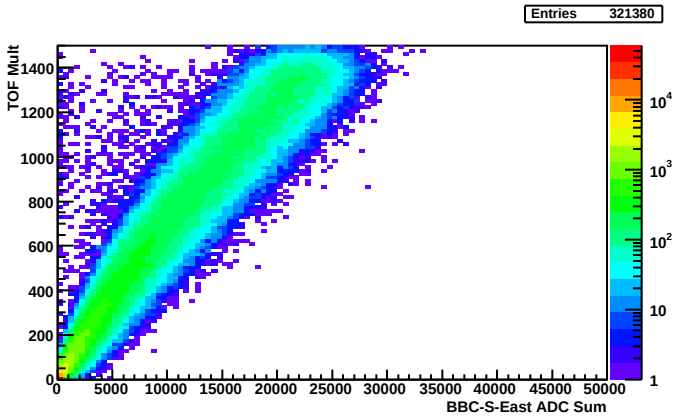

BBQ-VP003 (HI threshold)
Entries 5142080
TAC
QT Input Channel

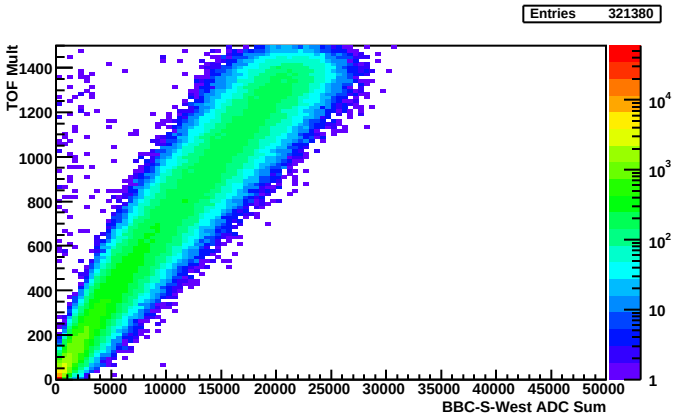

BBQ-VP004 (HI threshold)
Entries 5142080
ADC
QT Input Channel

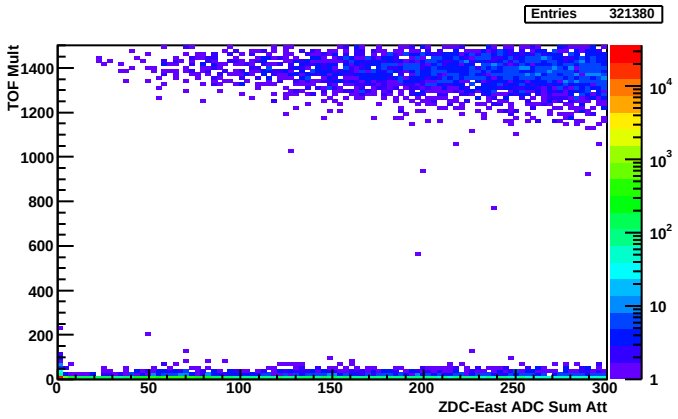

BBQ-VP004 (HI threshold)
Entries 5142080
TAC
QT Input Channel

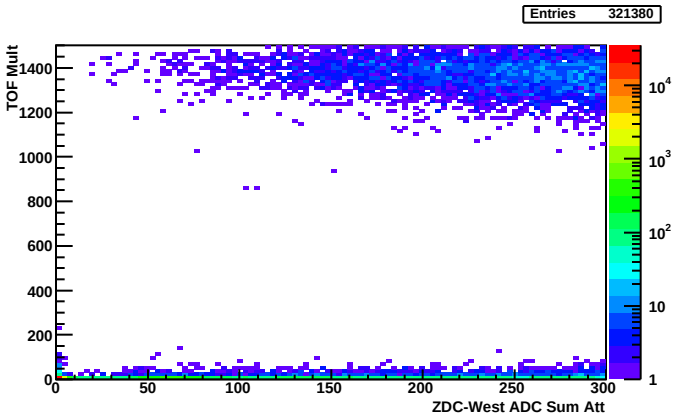

Entries 321380
TOF Mult
BBC-L-East ADC Sum

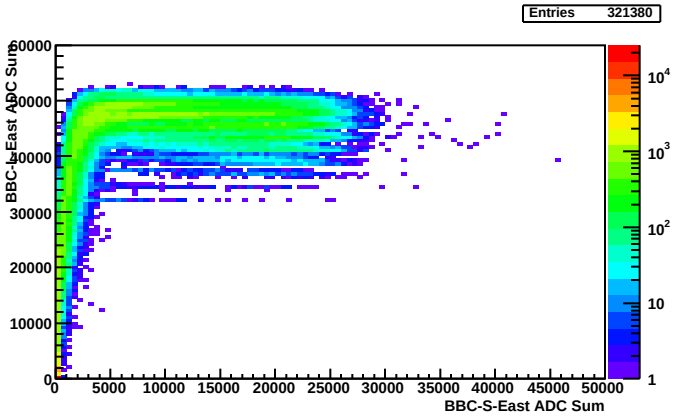

Entries 321380
TOF Mult
BBC-L-West ADC Sum

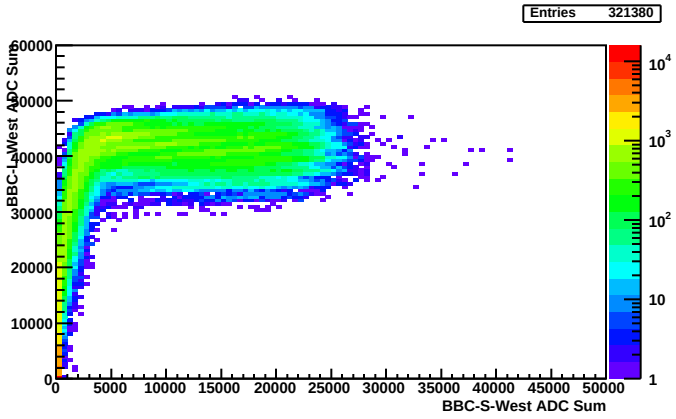

Entries 321380
TOF Mult
BBC-S-East ADC Sum

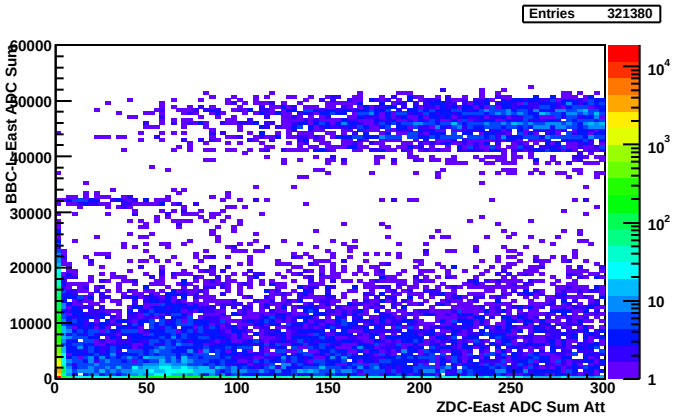

Entries 321380
TOF Mult
BBC-S-West ADC Sum

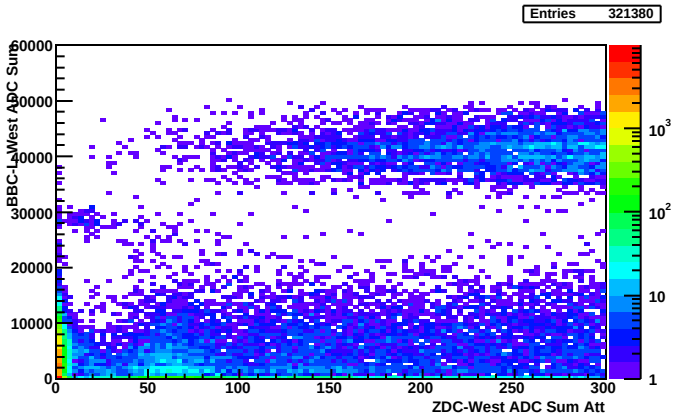

Entries 321380
TOF Mult
ZDC-East ADC Sum Att

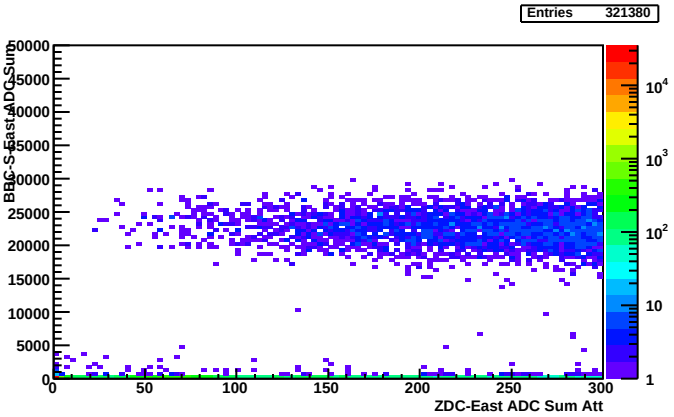

Entries 321380
TOF Mult
ZDC-West ADC Sum Att

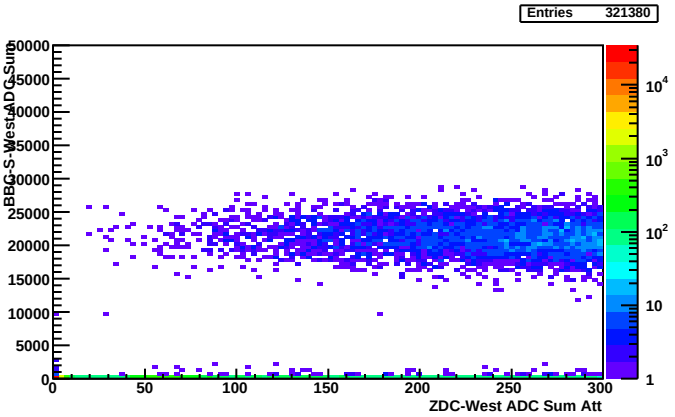

Entries 321380
BBC-L-East ADC Sum
BBC-S-East ADC Sum

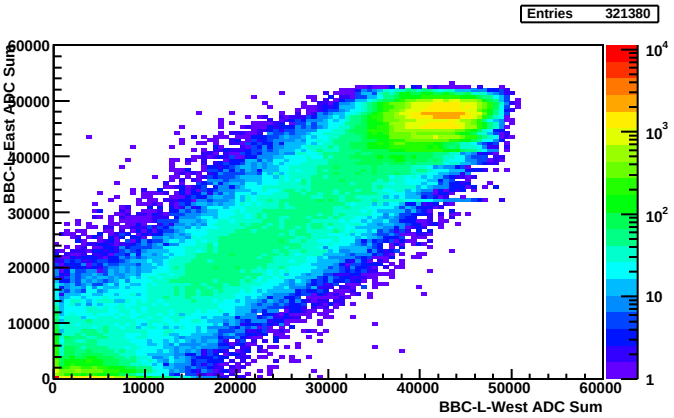

Entries 321380
BBC-L-West ADC Sum
BBC-S-West ADC Sum

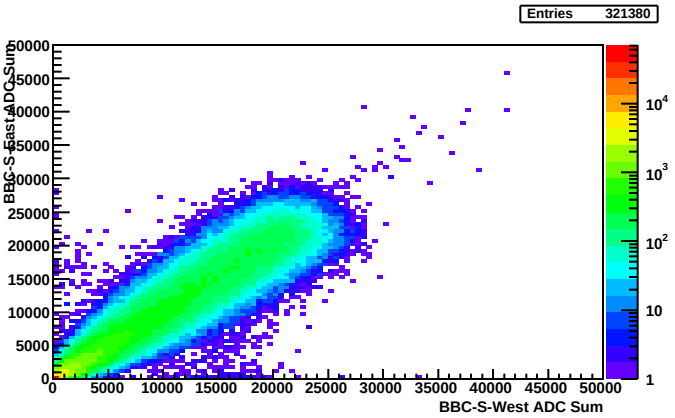

Entries 321380
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

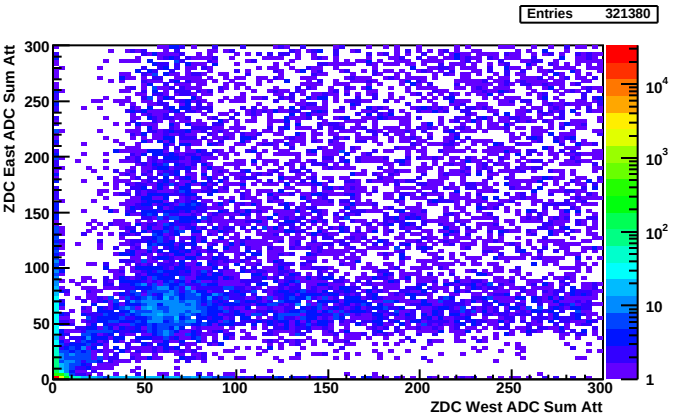

Entries 321380
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

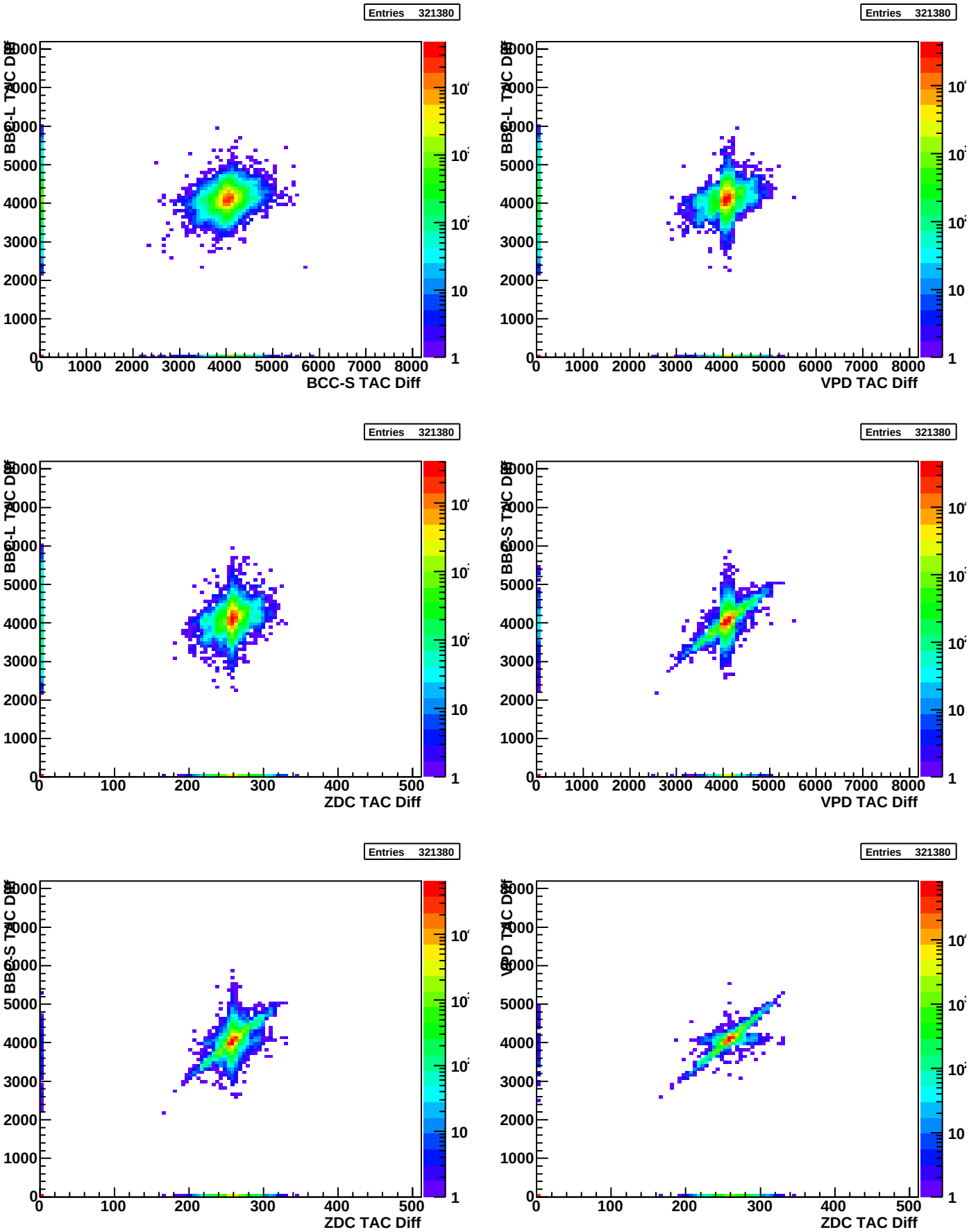

Entries 321380
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

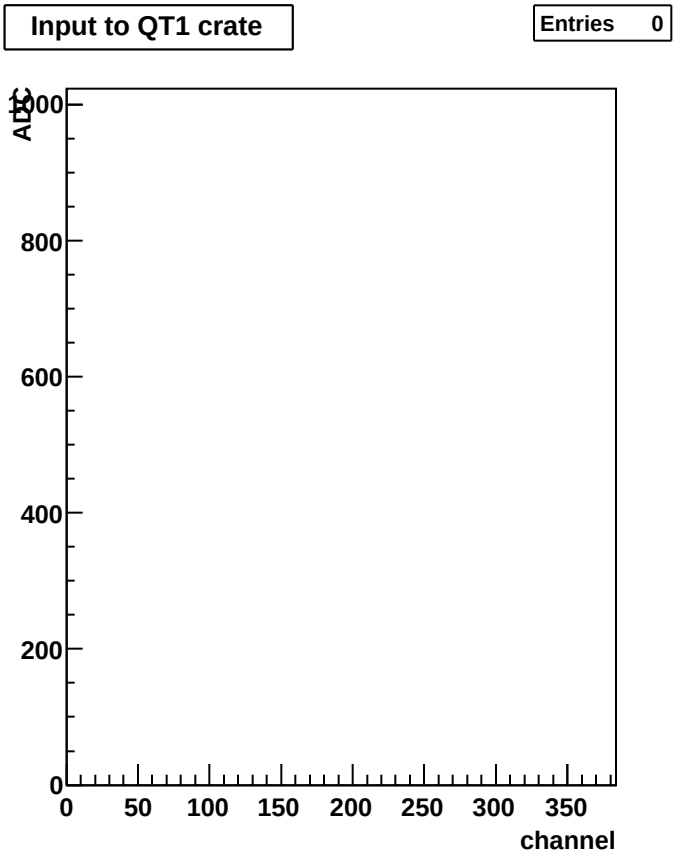

Entries 321380
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

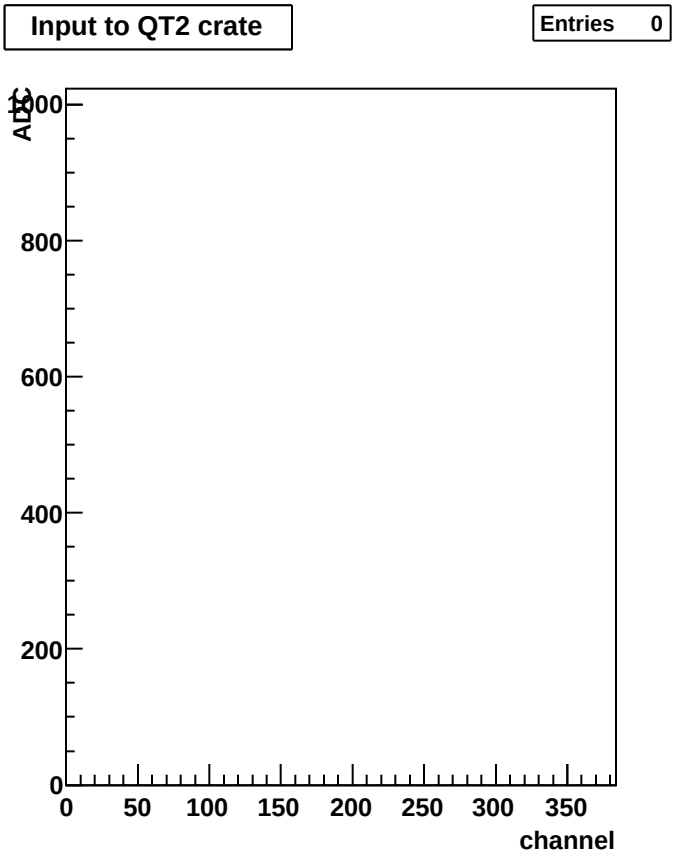

Entries 321380
BBC-L-East ADC Sum
BBC-L-West ADC Sum

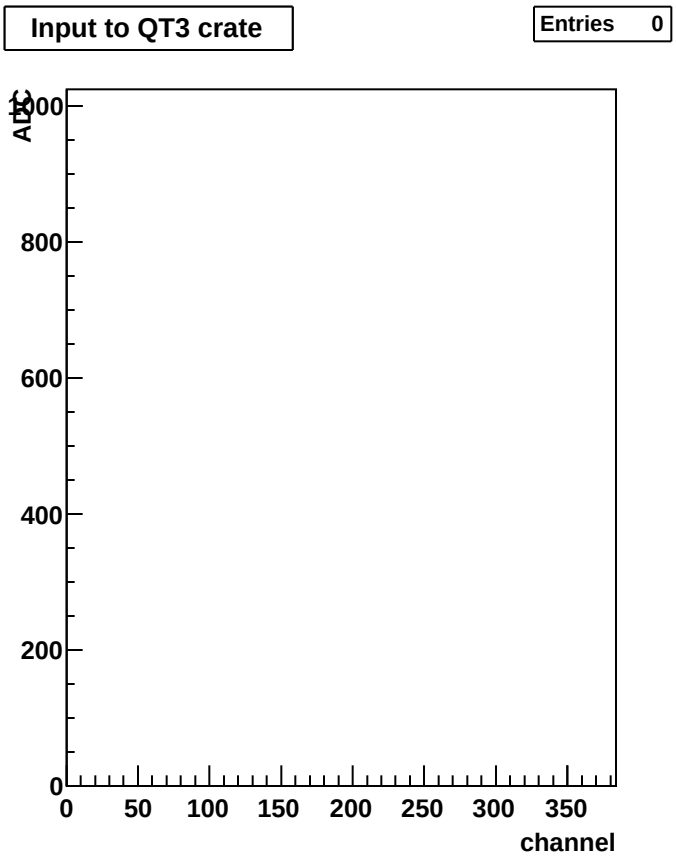

Entries 321380
BBC-S-East ADC Sum
BBC-S-West ADC Sum

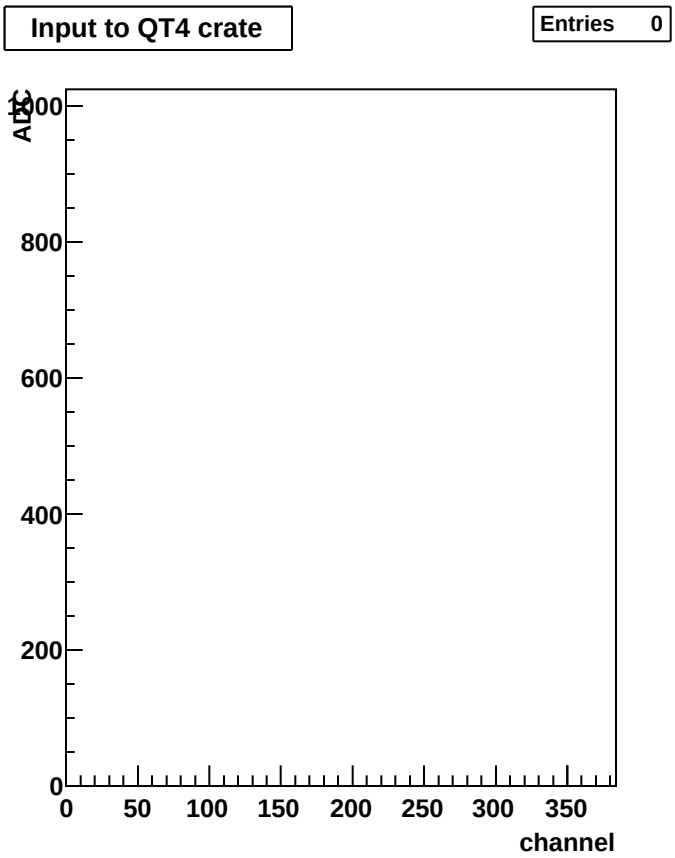

Entries 321380
ZDC East ADC Sum Att
ZDC West ADC Sum Att

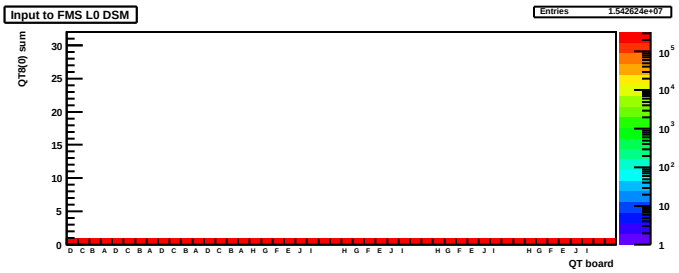

Entries 321380
BBC-L TAC Diff
BCC-S TAC Diff
Entries 321380
BBC-L TAC Diff
VPD TAC Diff
Entries 321380
BBC-L TAC Diff
ZDC TAC Diff
Entries 321380
BBC-S TAC Diff
VPD TAC Diff
Entries 321380
BBC-S TAC Diff
ZDC TAC Diff
Entries 321380
VPD TAC Diff
ZDC TAC Diff

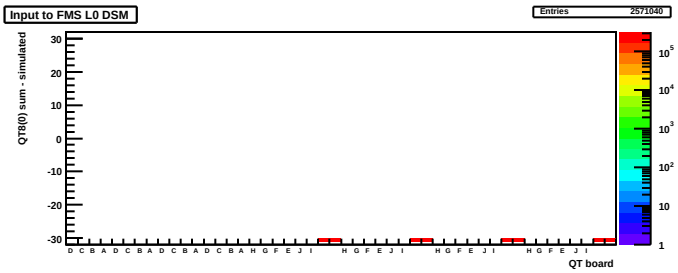

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

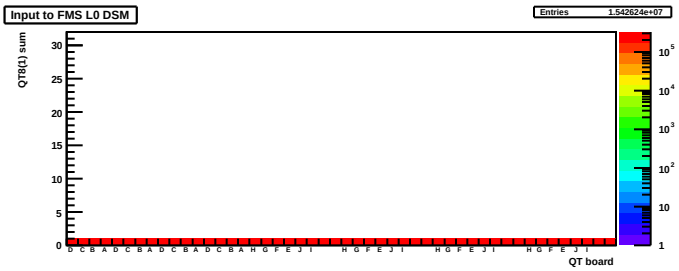

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

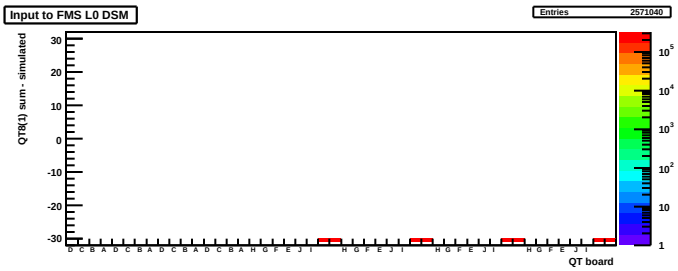

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

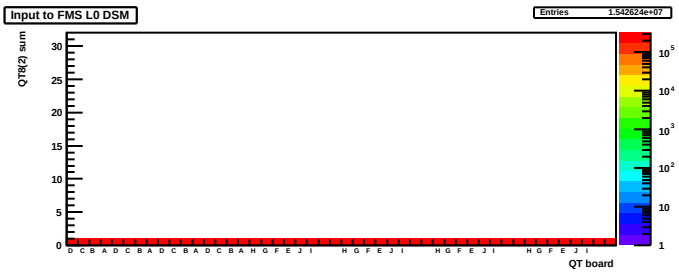

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

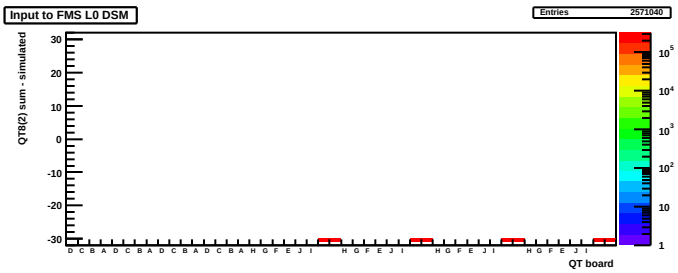

Input to FMS L0 DSM
Entries 1.542624e+07
QT8(0) sum
QT board

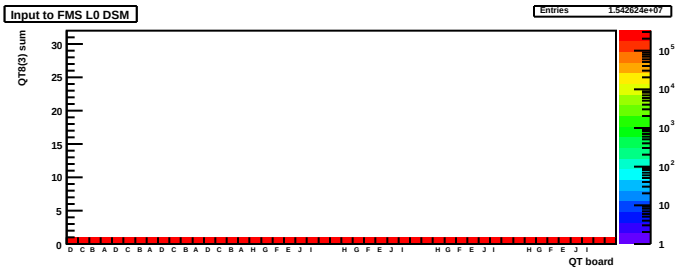

Input to FMS L0 DSM
Entries 2571040
QT8(0) sum - simulated
QT board

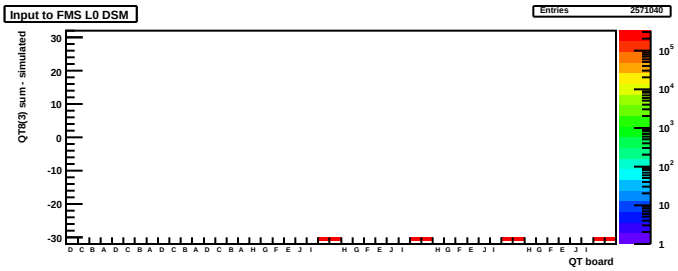

Input to FMS L0 DSM
Entries 1.542624e+07
QT8(1) sum
QT board

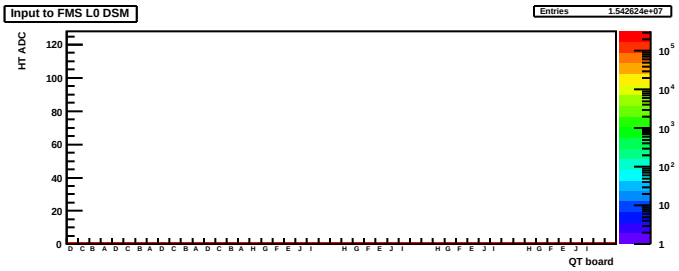

Input to FMS L0 DSM
Entries 2571040
QT8(1) sum - simulated
QT board

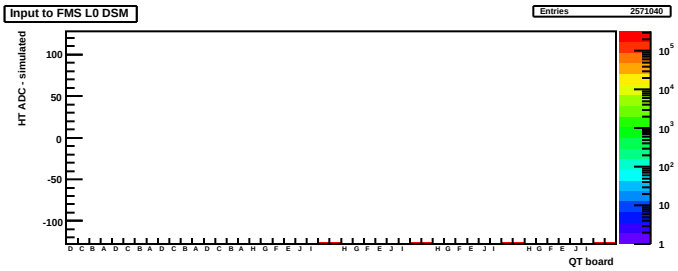

Input to FMS L0 DSM
Entries 1.542624e+07
QT8(2) sum
QT board

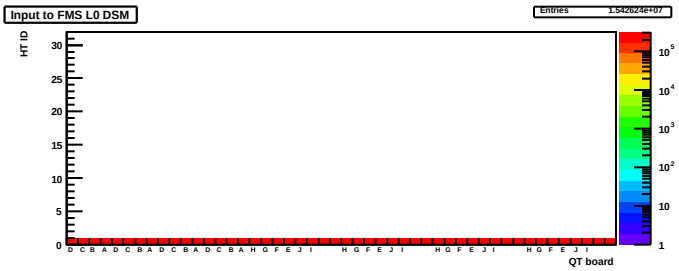

Input to FMS L0 DSM
Entries 2571040
QT8(2) sum - simulated
QT board

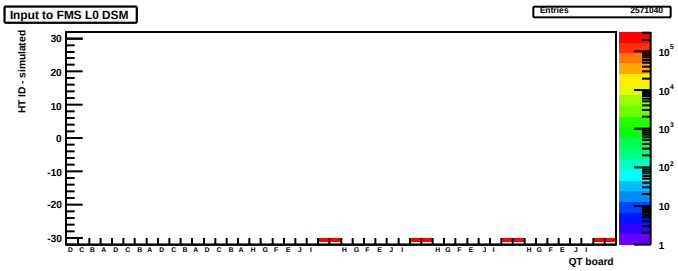

Input to FMS L0 DSM
Entries 1.542624e+07
QT8(3) sum
QT board

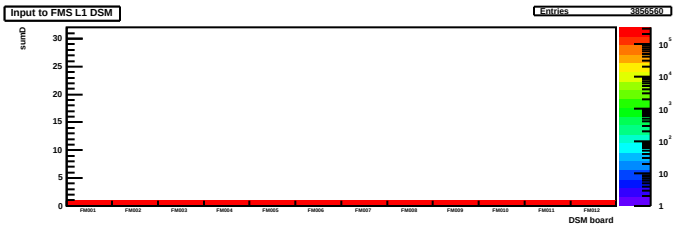

Input to FMS L0 DSM
Entries 2571040
QT8(3) sum - simulated
QT board

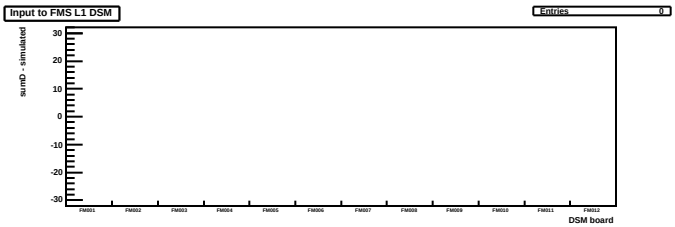

Input to FMS L0 DSM
Entries 1.542624e+07
HT ADC
QT board

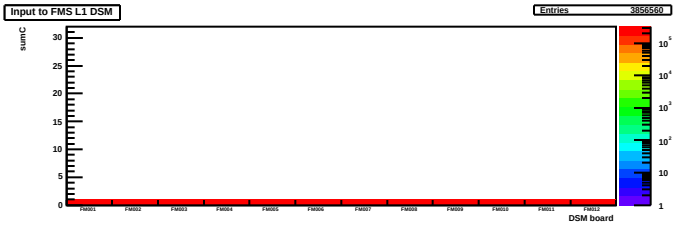

Input to FMS L0 DSM
Entries 2571040
HT ADC - simulated
QT board

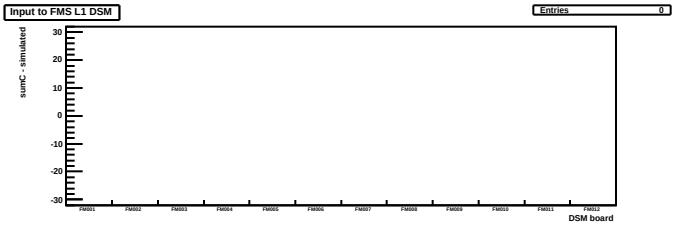

Input to FMS L0 DSM
Entries 1.542624e+07
HT ID
QT board

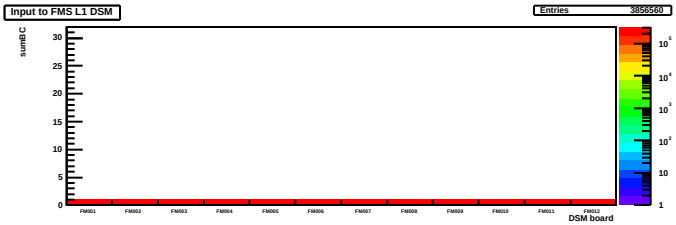

Input to FMS L0 DSM
Entries 2571040
HT ID - simulated
QT board

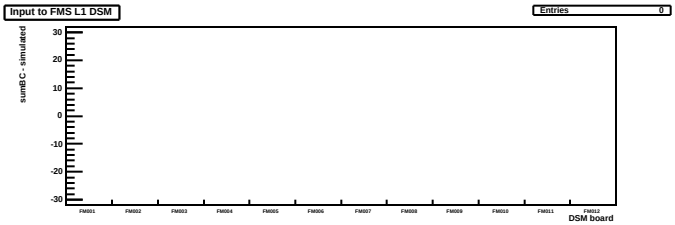

Input to FMS L1 DSM
Entries 3856560
sumD
DSM board

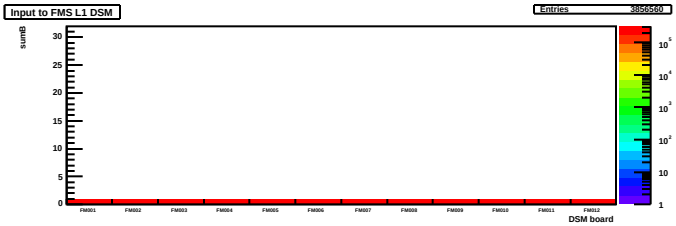

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

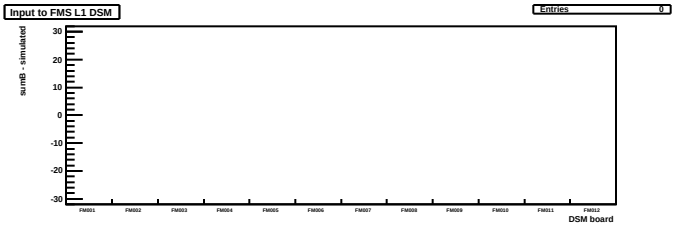

Input to FMS L1 DSM
Entries 3856560
sumC
DSM board

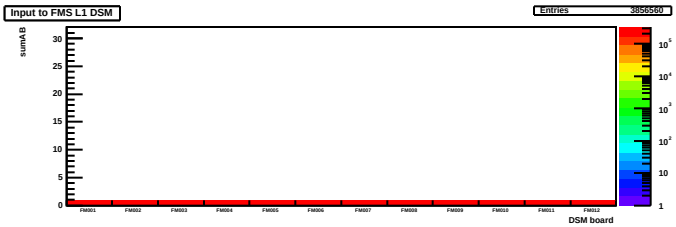

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

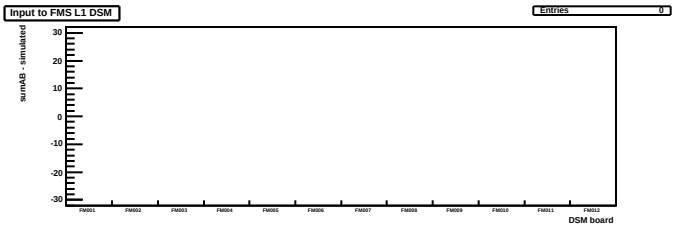

Input to FMS L1 DSM
Entries 3856560
sumBC
DSM board

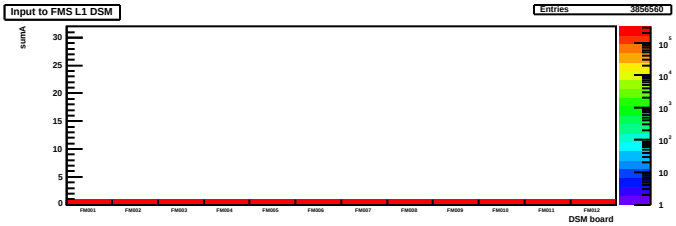

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

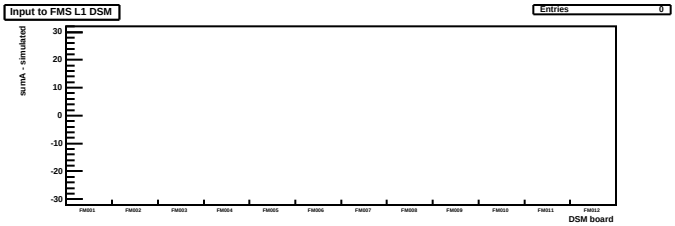

Input to FMS L1 DSM
Entries 3856560
sumB
DSM board

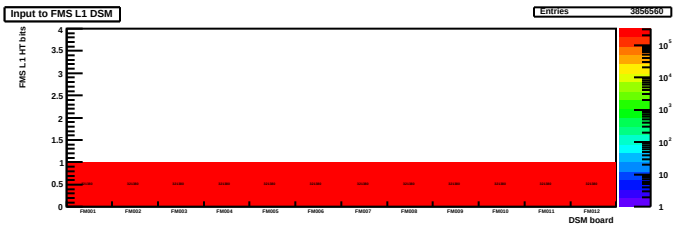

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

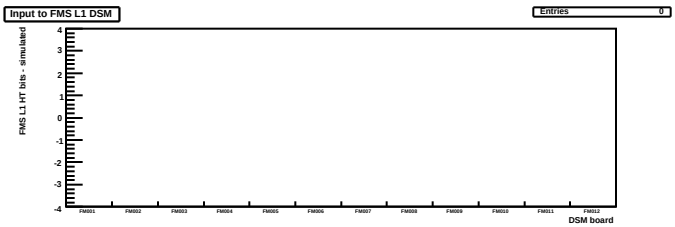

Input to FMS L1 DSM
Entries 3856560
sumAB
DSM board

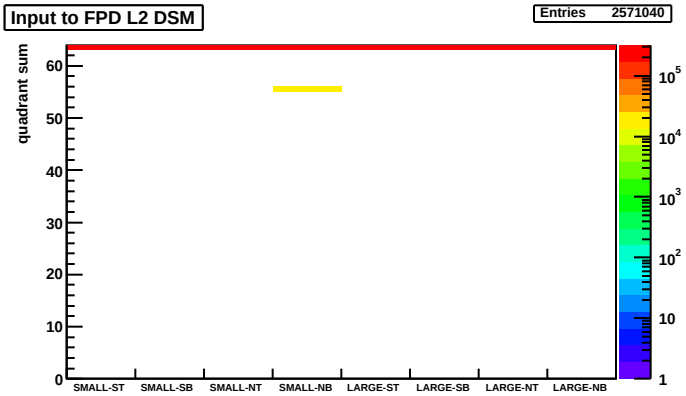

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

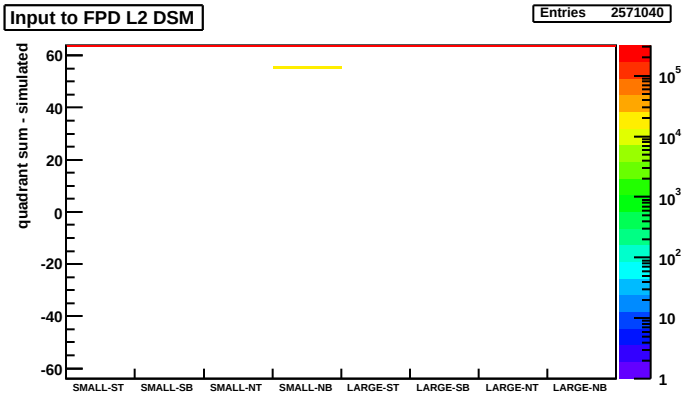

Input to FMS L1 DSM
Entries 3856560
sumA
DSM board

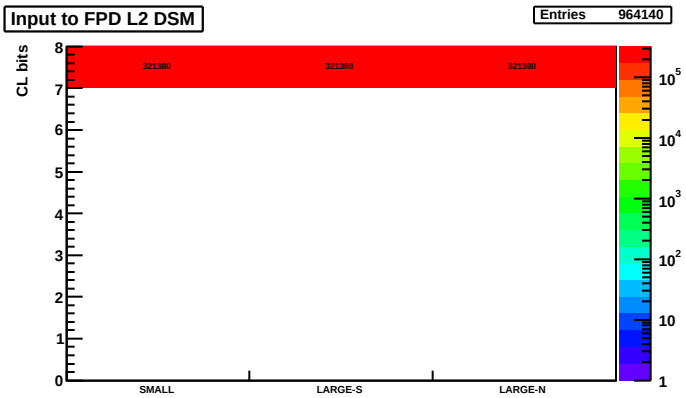

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

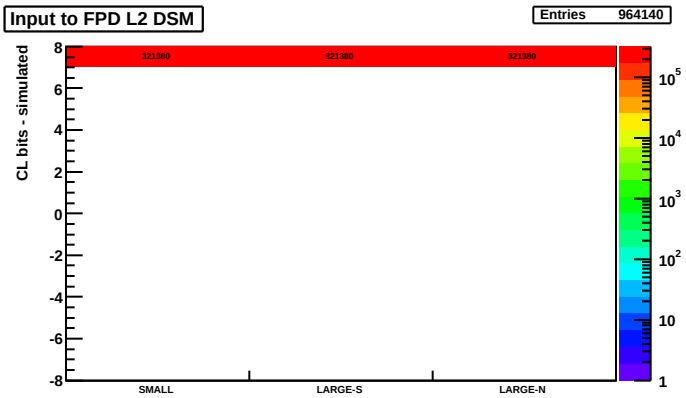

Input to FMS L1 DSM
Entries 3856560
FMS L1 HT bits
DSM board

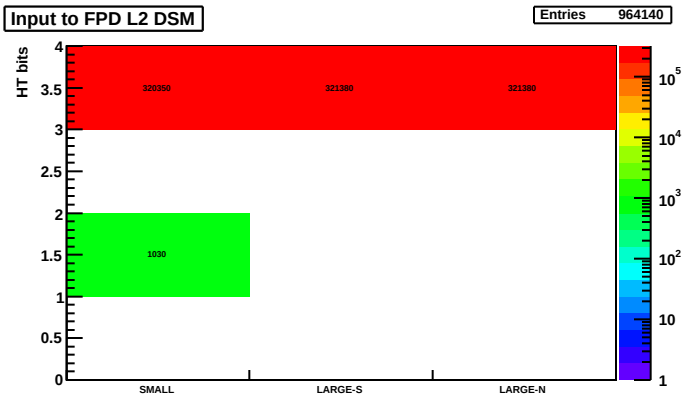

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

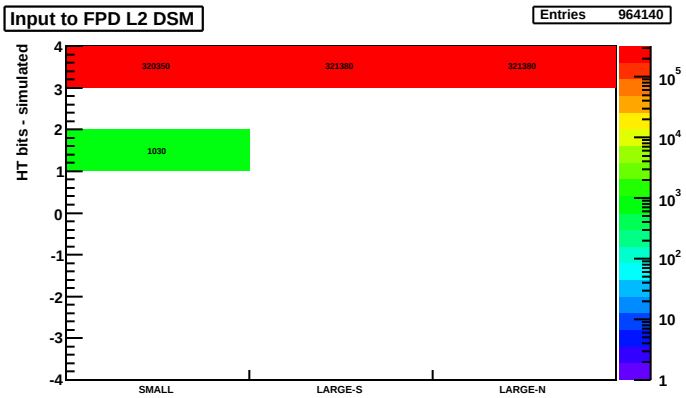

Input to FPD L2 DSM
Entries 2571040
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

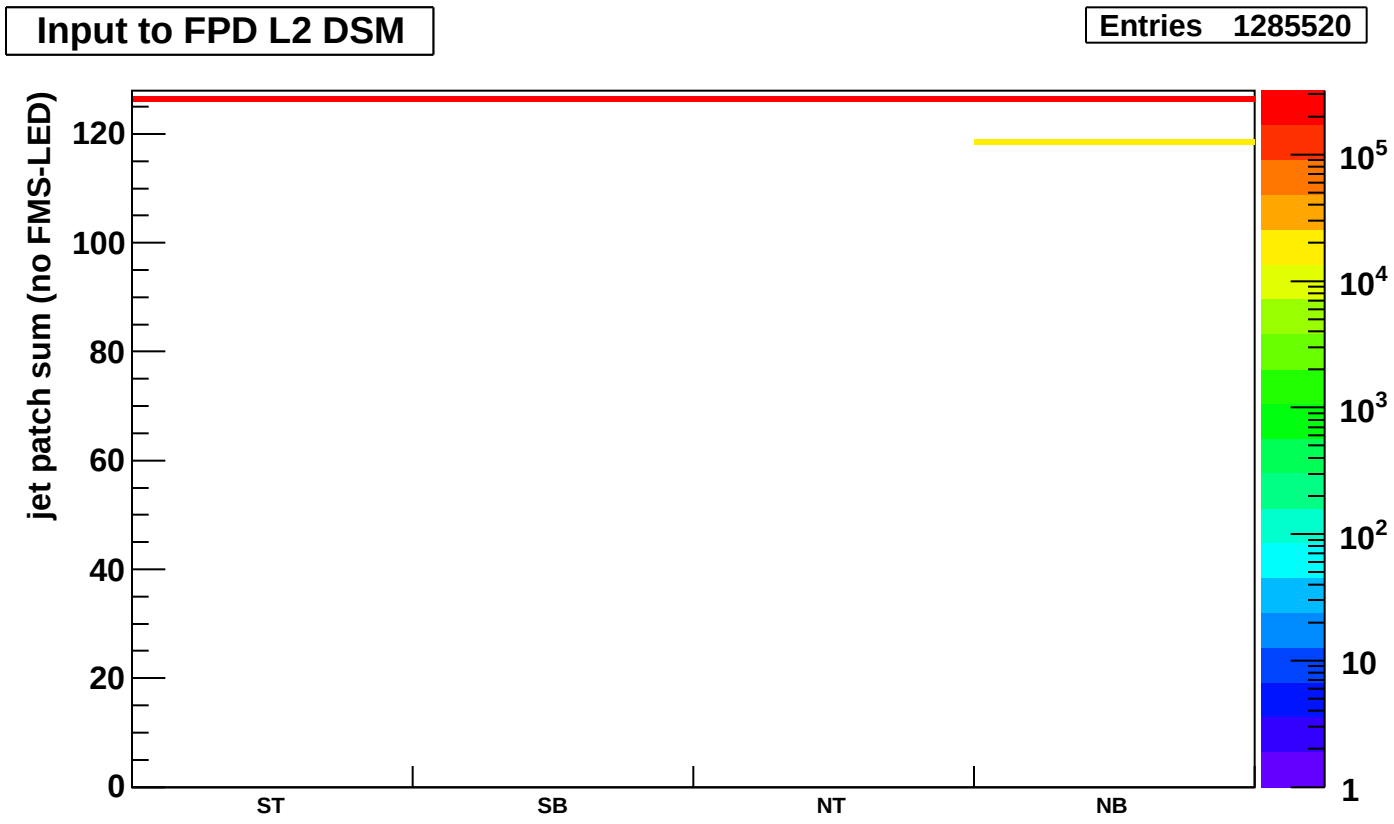

Input to FPD L2 DSM
Entries 2571040
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

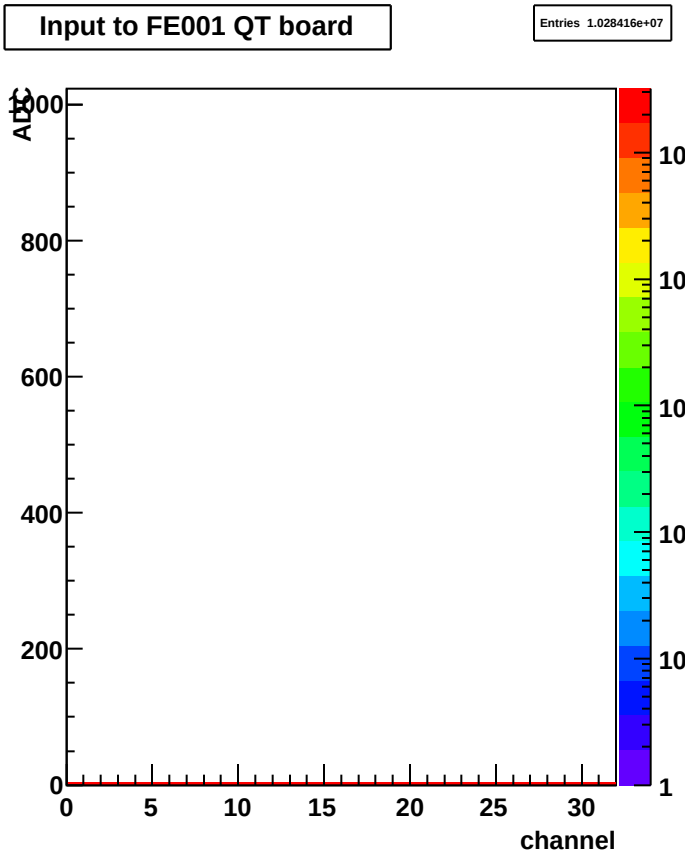

Input to FPD L2 DSM
Entries 964140
CL bits
321380
321380
321380
SMALL
LARGE-S
LARGE-N

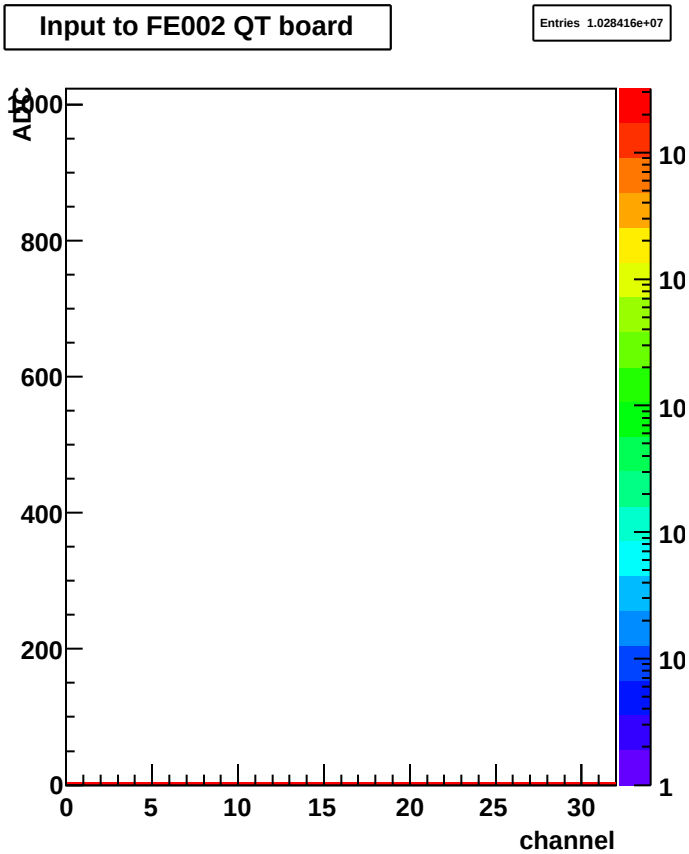

Input to FPD L2 DSM
Entries 964140
CL bits - simulated
321380
321380
321380
SMALL
LARGE-S
LARGE-N

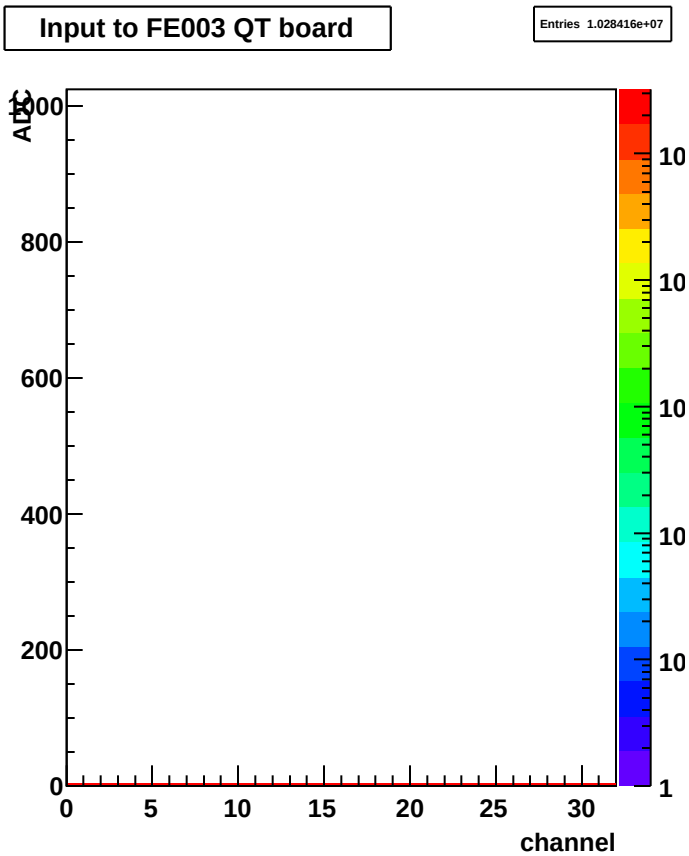

Input to FPD L2 DSM
Entries 964140
HT bits
320350
321380
321380
1030
SMALL
LARGE-S
LARGE-N

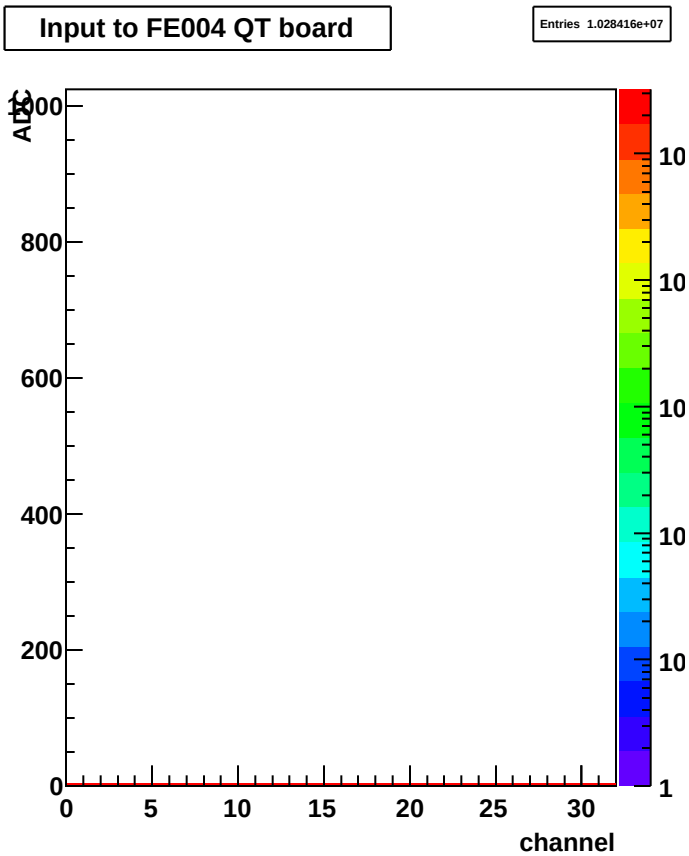

Input to FPD L2 DSM
Entries 964140
HT bits - simulated
320350
321380
321380
1030
SMALL
LARGE-S
LARGE-N

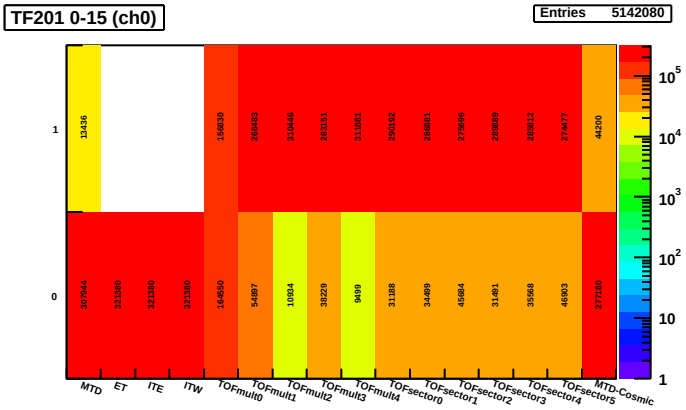

Input to FPD L2 DSM
Entries 1285520
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

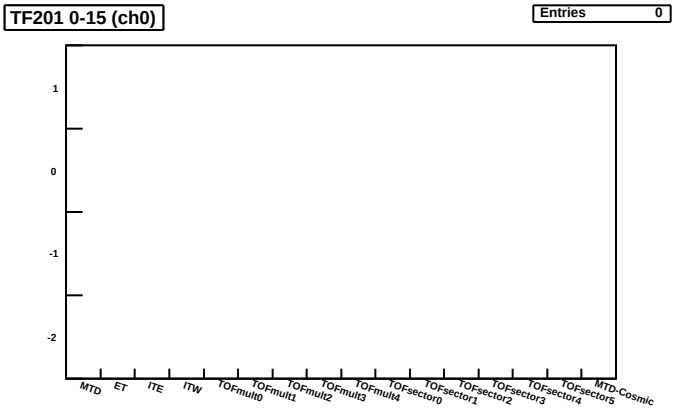

Input to FE001 QT board
Entries 1.028416e+07
ADC
channel

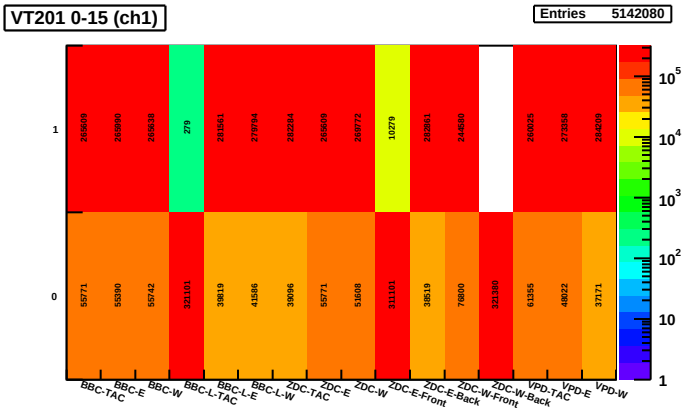

Input to FE002 QT board
Entries 1.028416e+07
ADC
channel

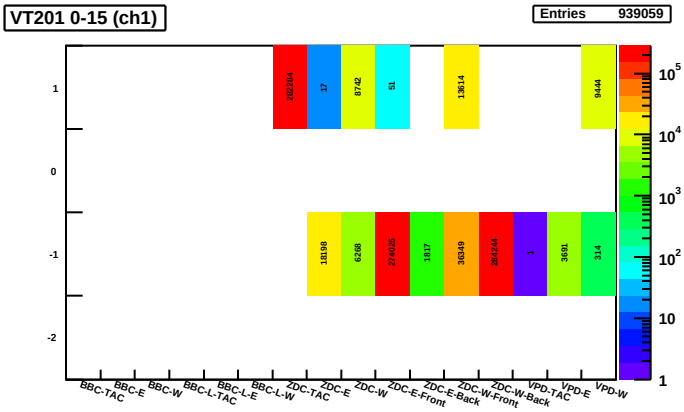

Input to FE003 QT board
Entries 1.028416e+07
ADC
channel

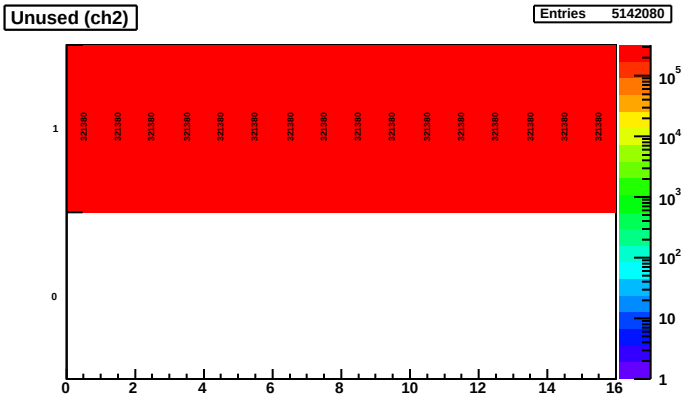

Input to FE004 QT board
Entries 1.028416e+07
ADC
channel

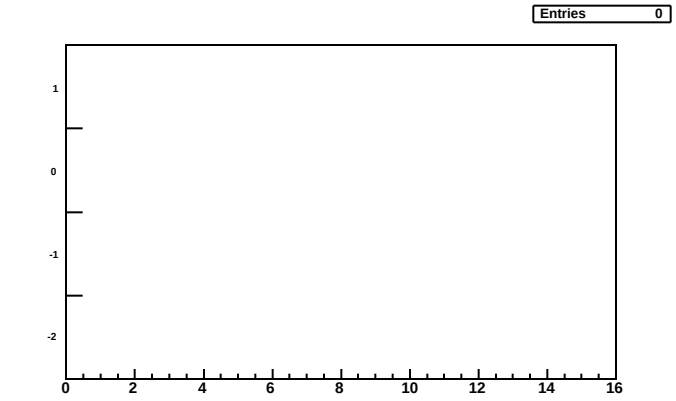

TF201 0-15 (ch0)
Entries 5142080
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

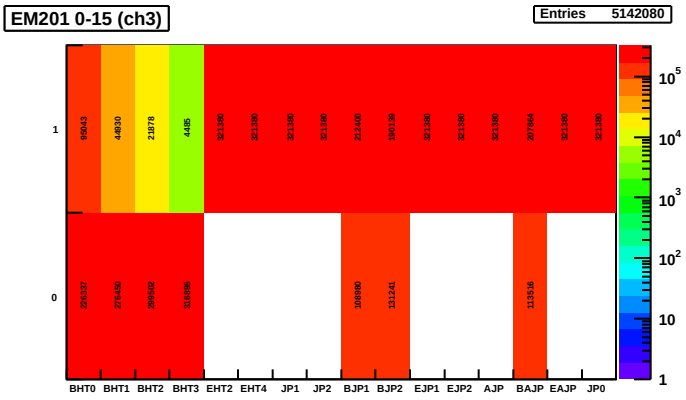

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

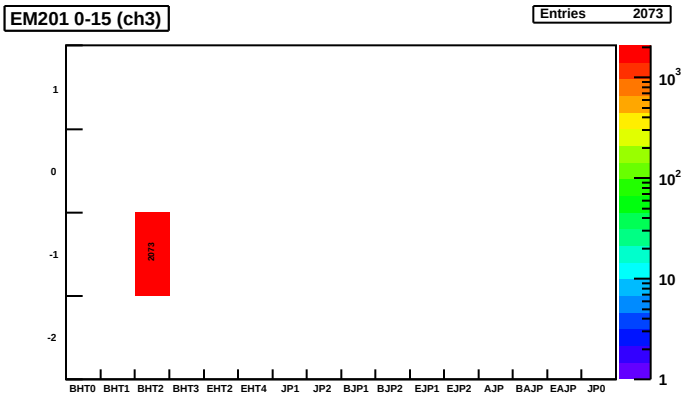

VT201 0-15 (ch1)
Entries 5142080
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 939059
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

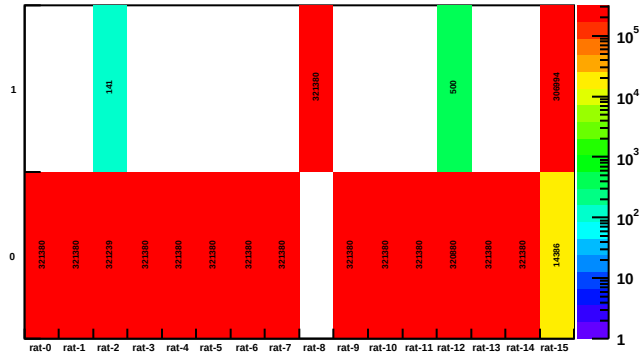

Unused (ch2)
Entries 5142080

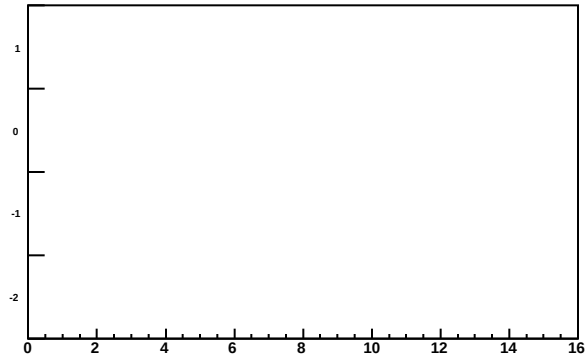

Entries 0


EM201 0-15 (ch3)
Entries 5142080
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

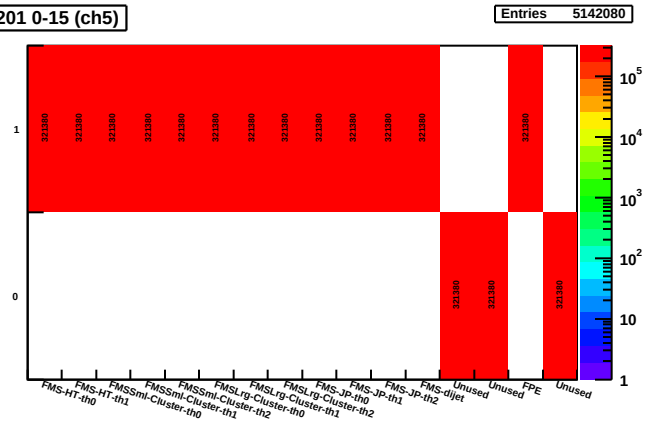

EM201 0-15 (ch3)
Entries 2073
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

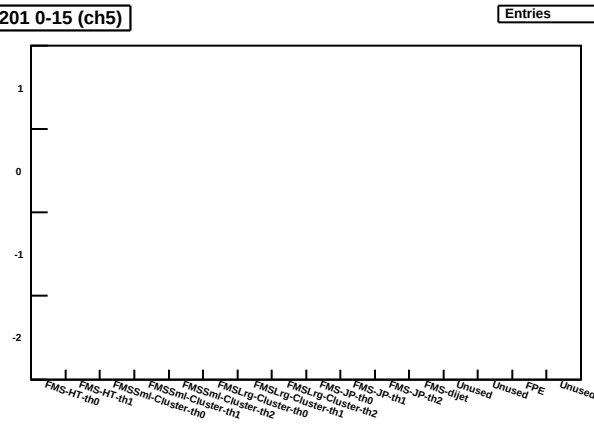




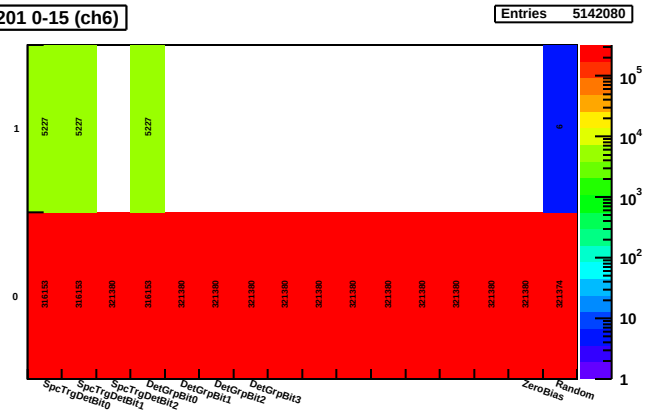
FP201 0-15 (ch5)

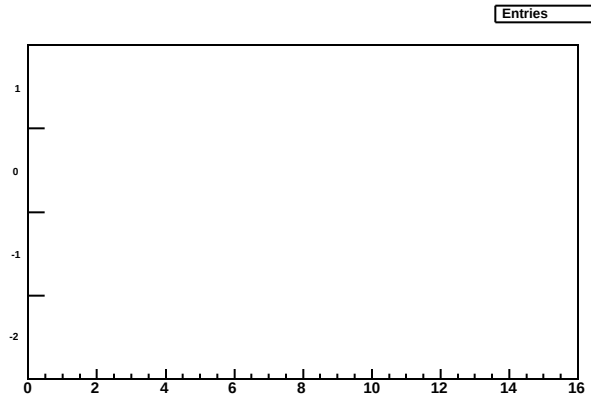
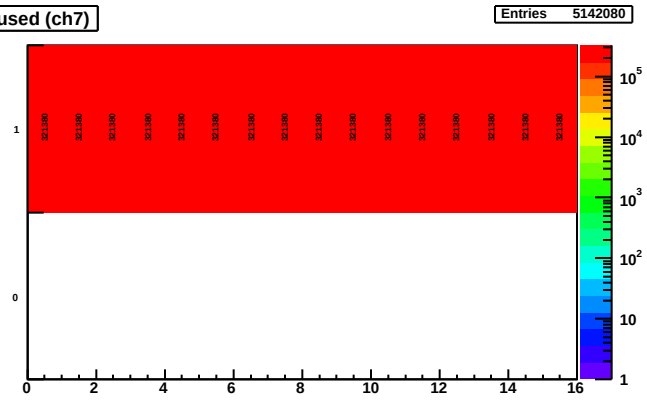
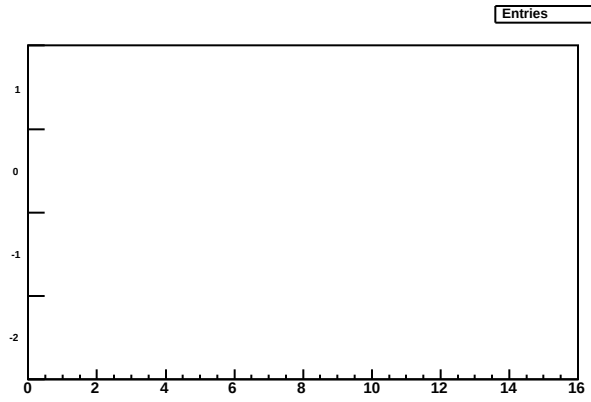


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)