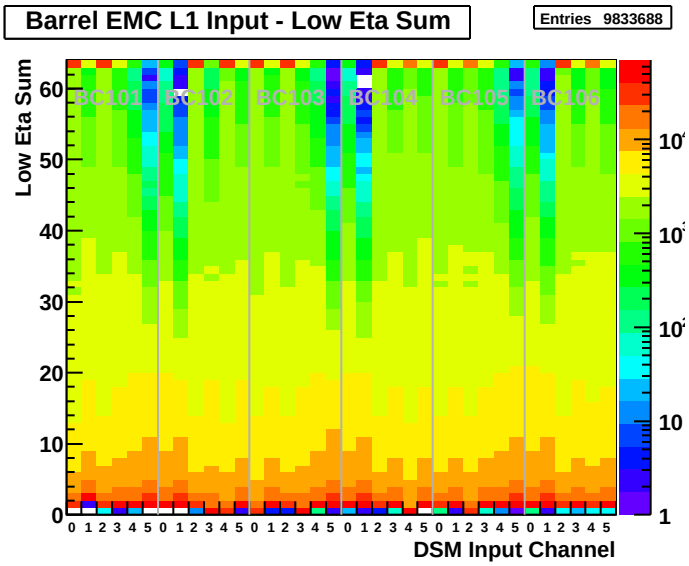
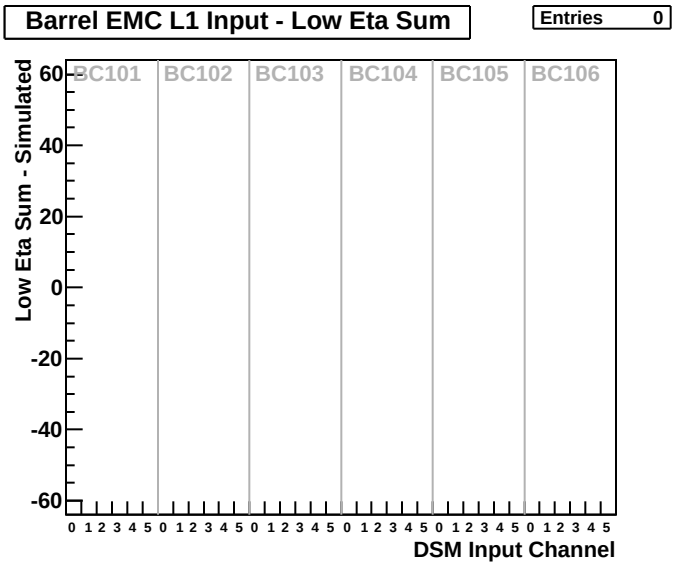
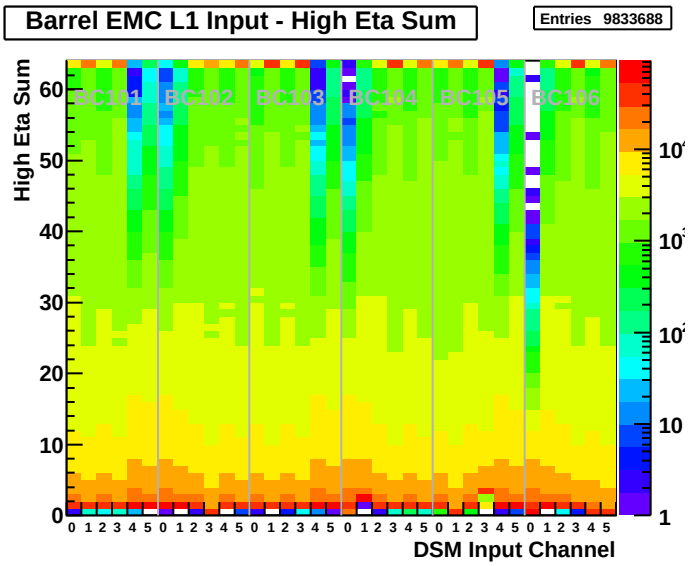
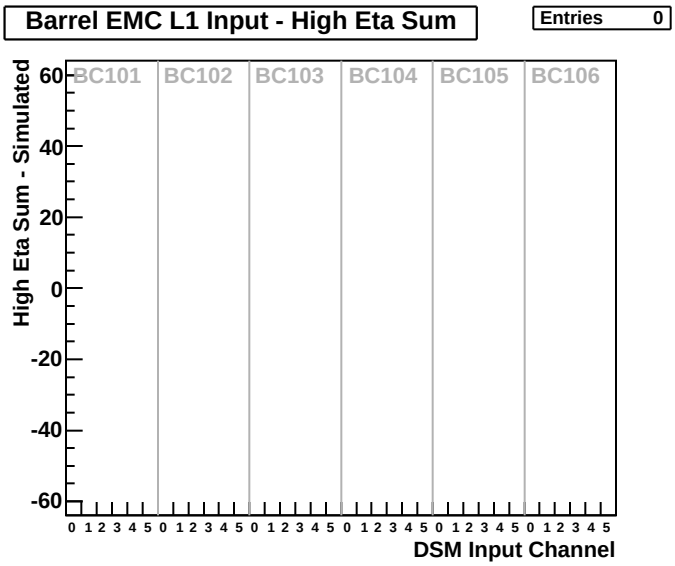
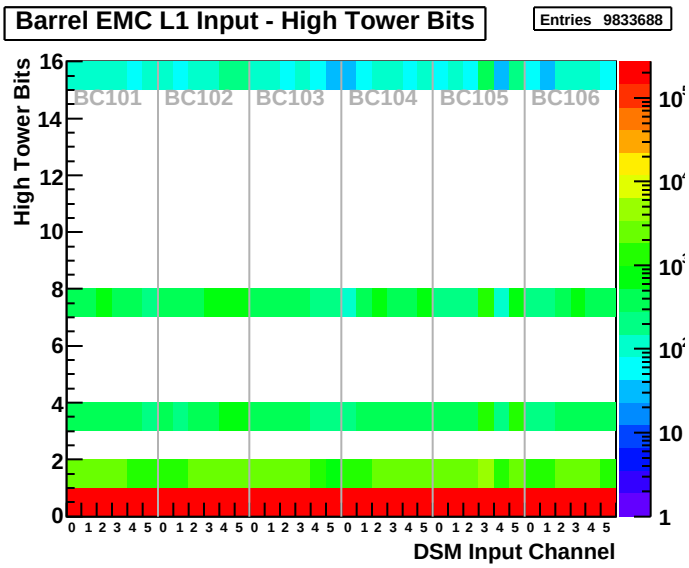
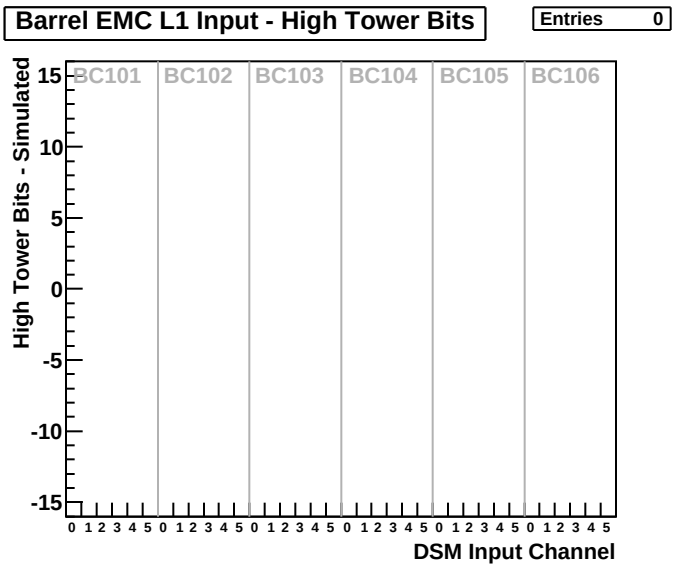

Barrel EMC L1 Input - Low Eta Sum
Entries 9833688
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

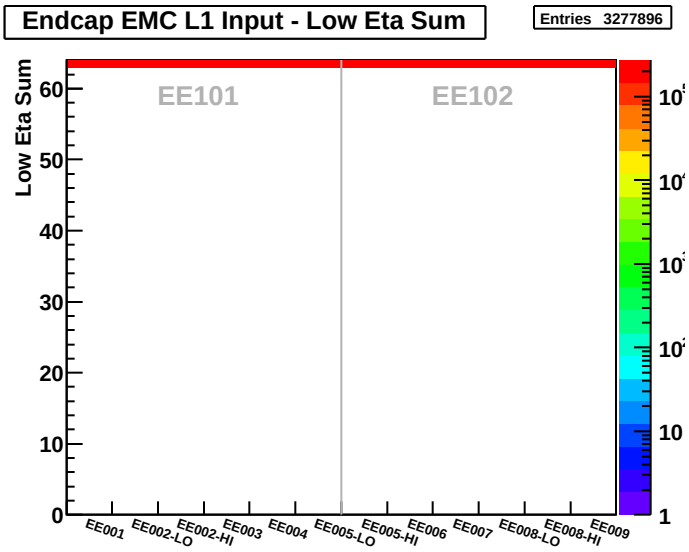

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

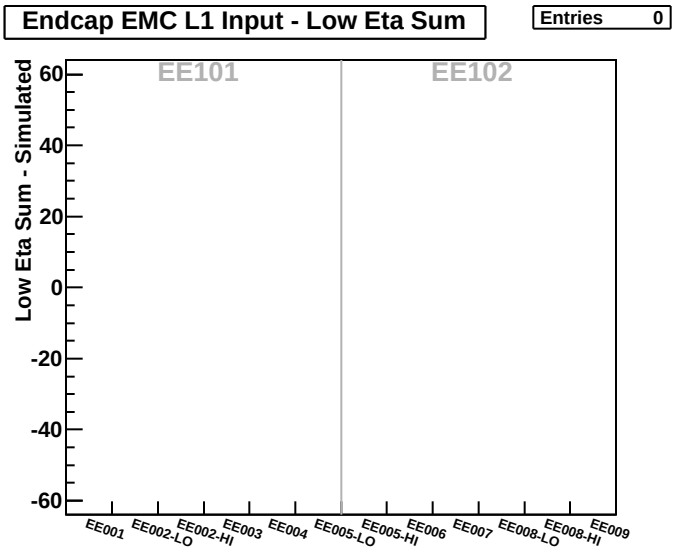

Barrel EMC L1 Input - High Eta Sum
Entries 9833688
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

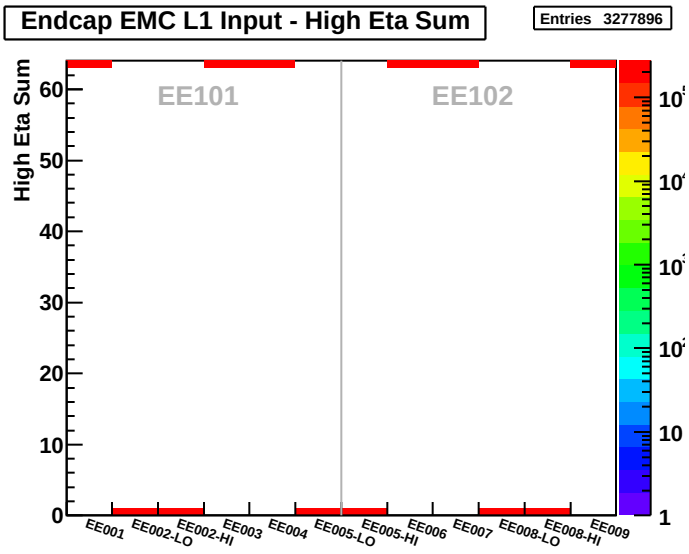

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

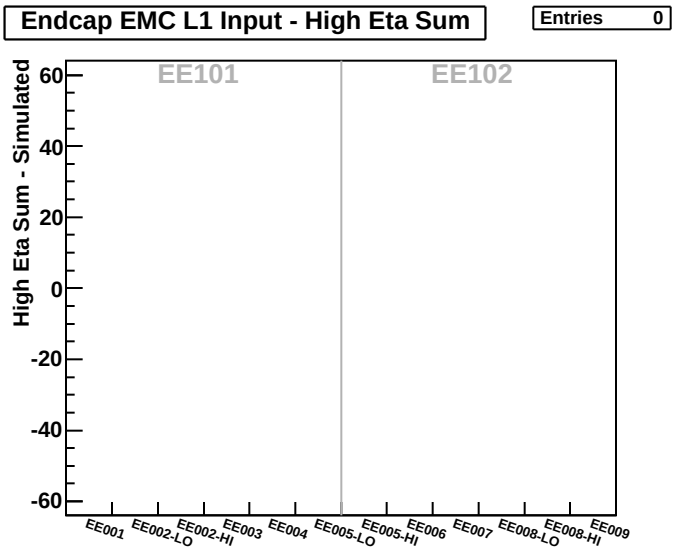

Barrel EMC L1 Input - High Tower Bits
Entries 9833688
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

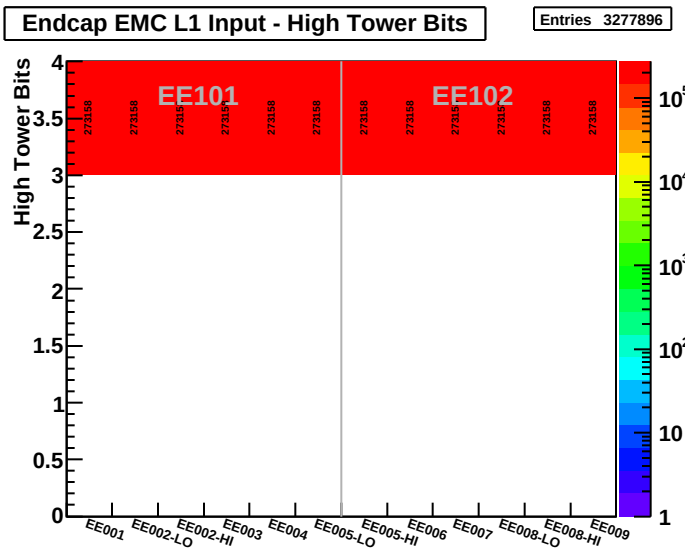

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

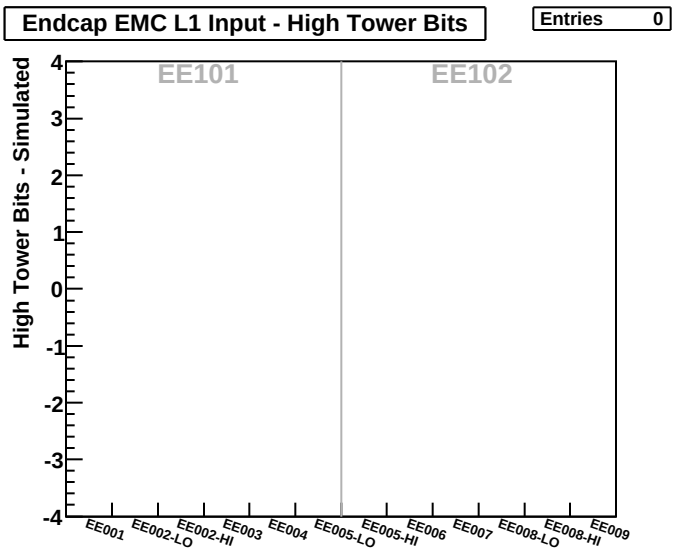

Endcap EMC L1 Input - Low Eta Sum
Entries 3277896
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

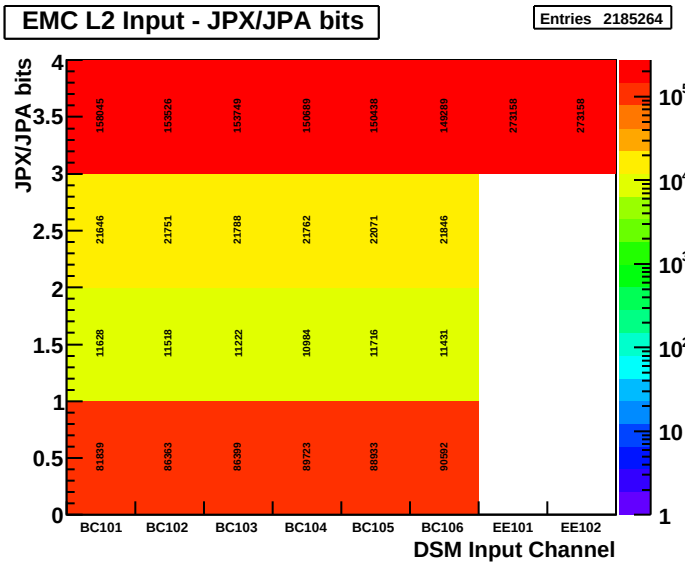

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

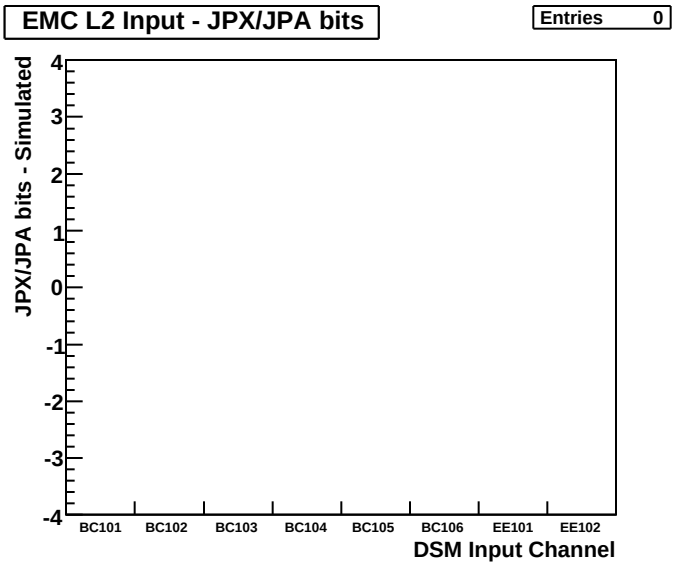

Endcap EMC L1 Input - High Eta Sum
Entries 3277896
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

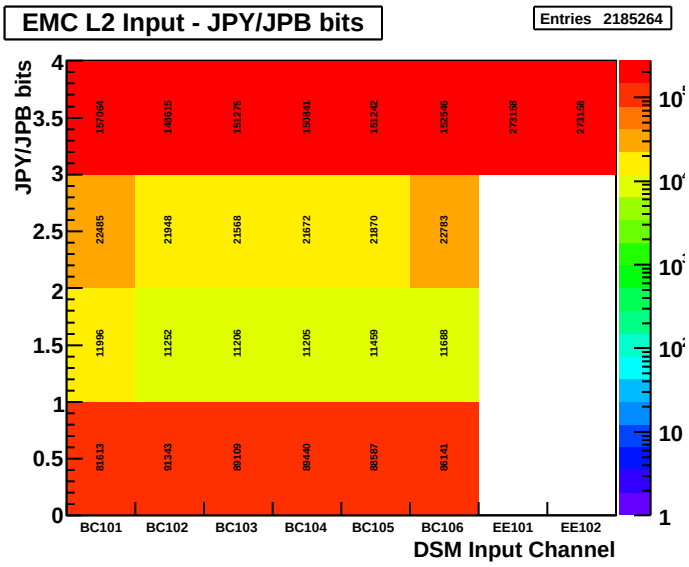

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

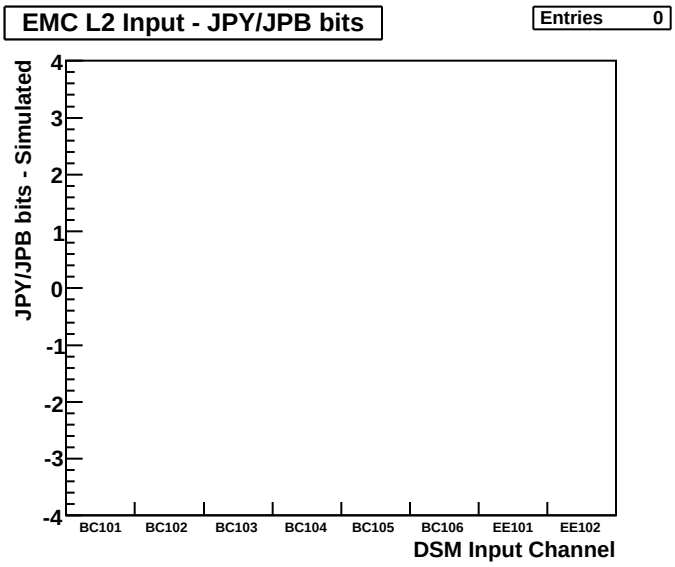

Endcap EMC L1 Input - High Tower Bits
Entries 3277896
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

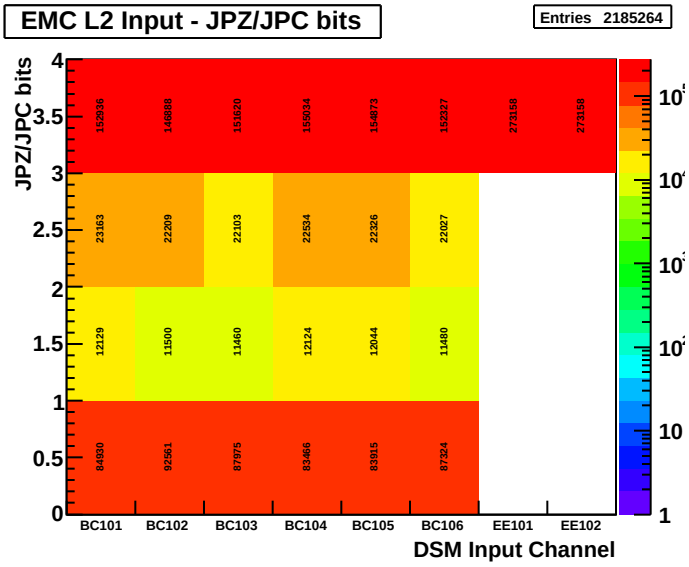

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

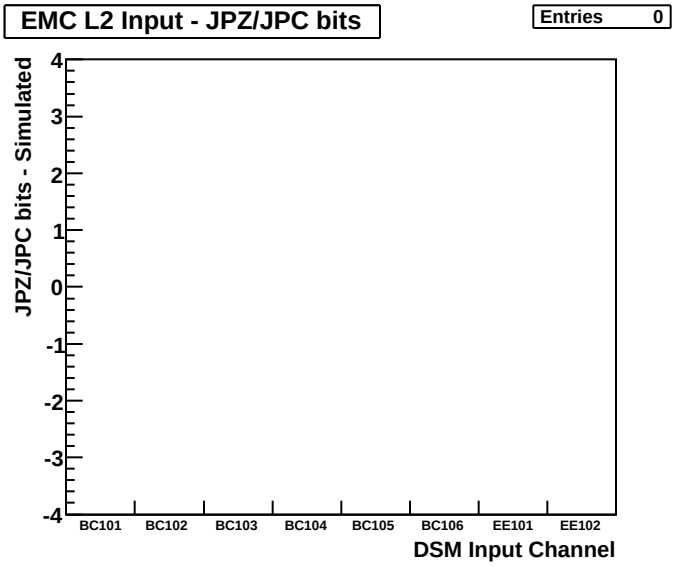

EMC L2 Input - JPX/JPA bits
Entries 2185264
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
158045 153826 153749 150689 150438 149289 273158 273158
21646 21751 21788 21762 22071 21846
11628 11518 11222 10984 11716 11431
81839 86363 86399 89723 88993 90592

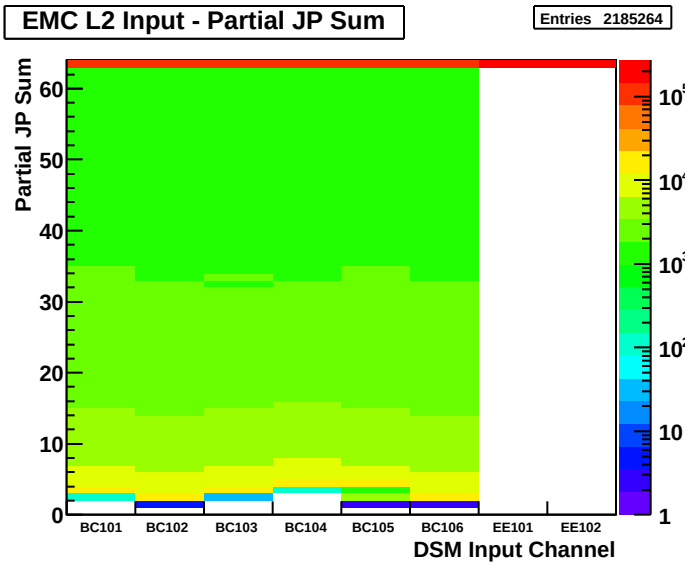

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

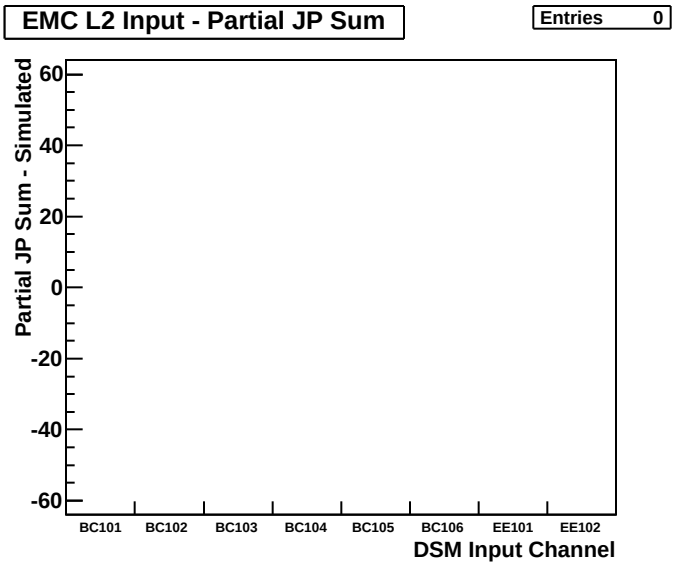

EMC L2 Input - JPY/JPB bits
Entries 2185264
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
157064 148615 151275 150841 151242 152546 273158 273158
22485 21948 21568 21672 21870 22783
11996 11252 11206 11205 11459 11688
81613 91343 89109 89440 88587 86141

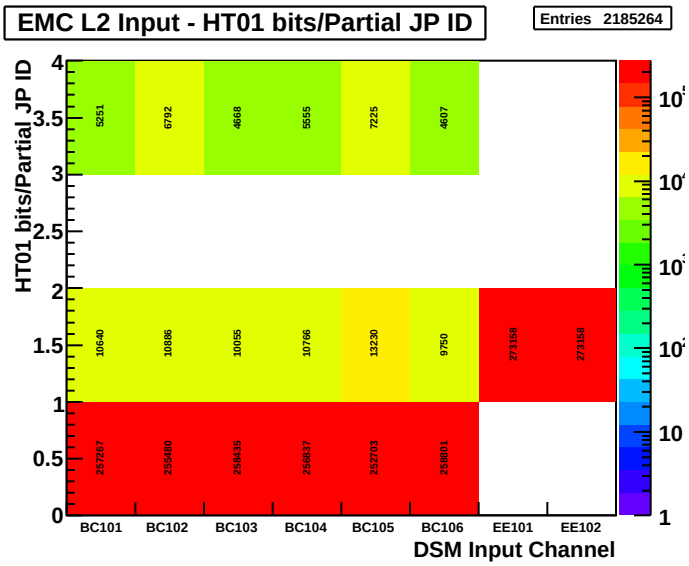

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

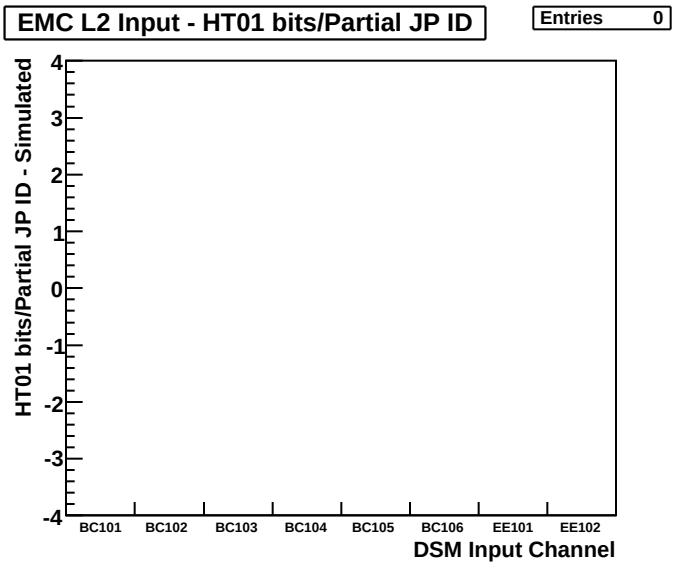

EMC L2 Input - JPZ/JPC bits
Entries 2185264
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
152936 148888 151620 150034 154873 152327 273158 273158
23163 22209 22103 22534 22326 22027
12129 11500 11460 12124 12044 11480
84930 92561 87975 83466 83915 87324

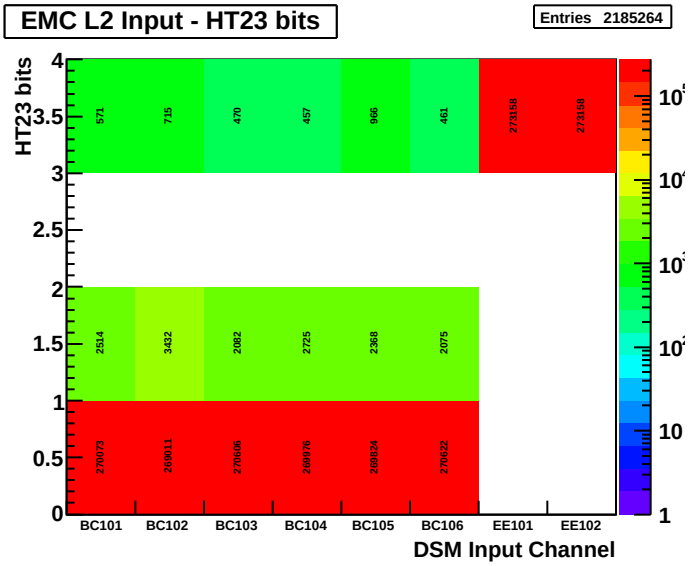

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

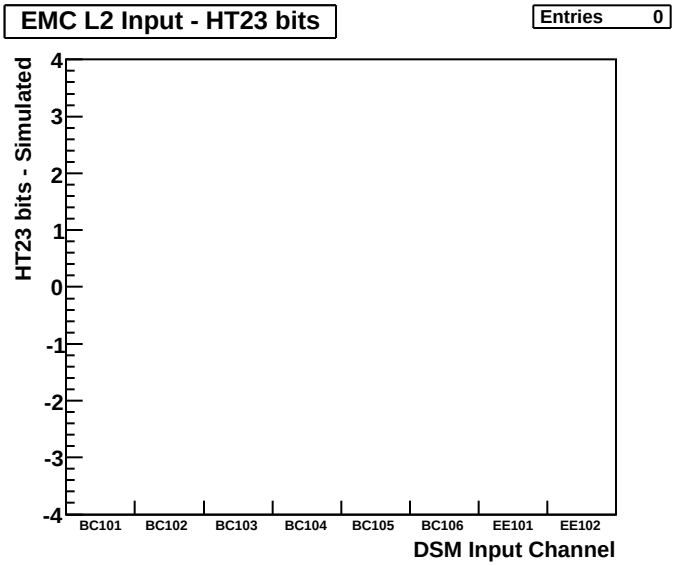

EMC L2 Input - Partial JP Sum
Entries 2185264
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

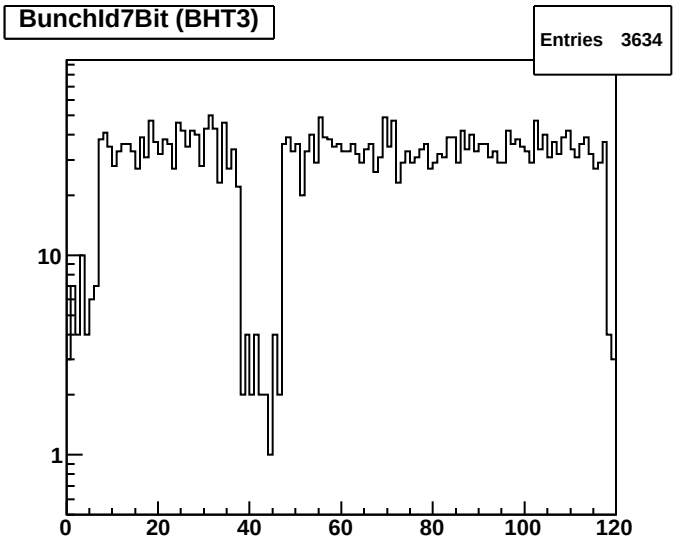

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

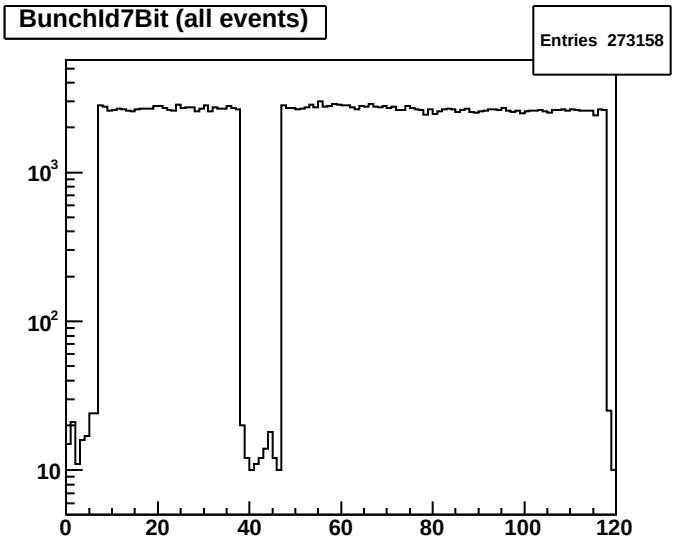

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2185264
HT01 bits/Partial JP ID
5251 6792 4668 5555 7225 4607
10640 10886 10055 10766 13230 9750 273158 273158
257267 255480 259435 256837 252703 258801
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

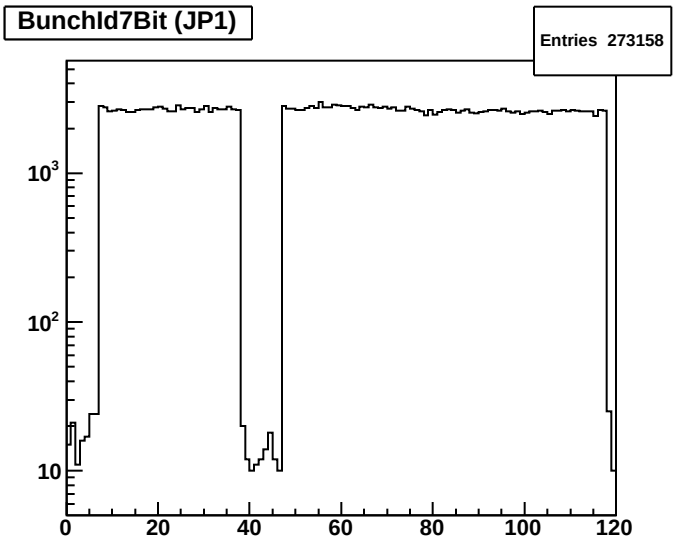

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

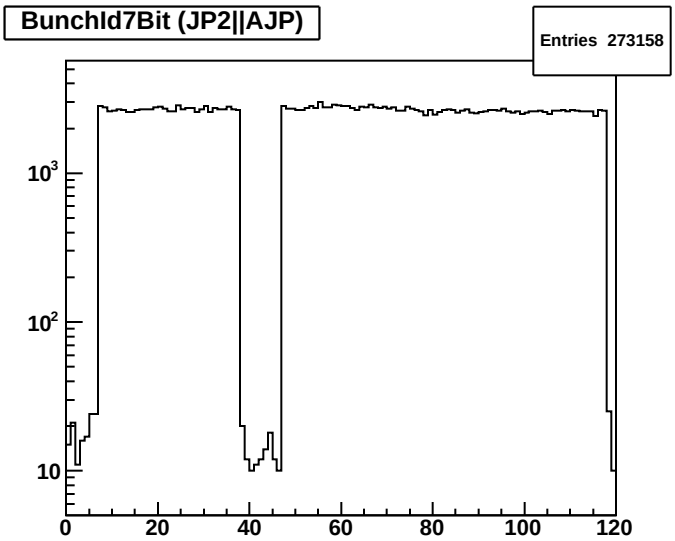

EMC L2 Input - HT23 bits
Entries 2185264
HT23 bits
571 715 470 457 966 461 273158 273158
2514 3432 2082 2725 2368 2075
270073 269011 270606 269976 269824 270522
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

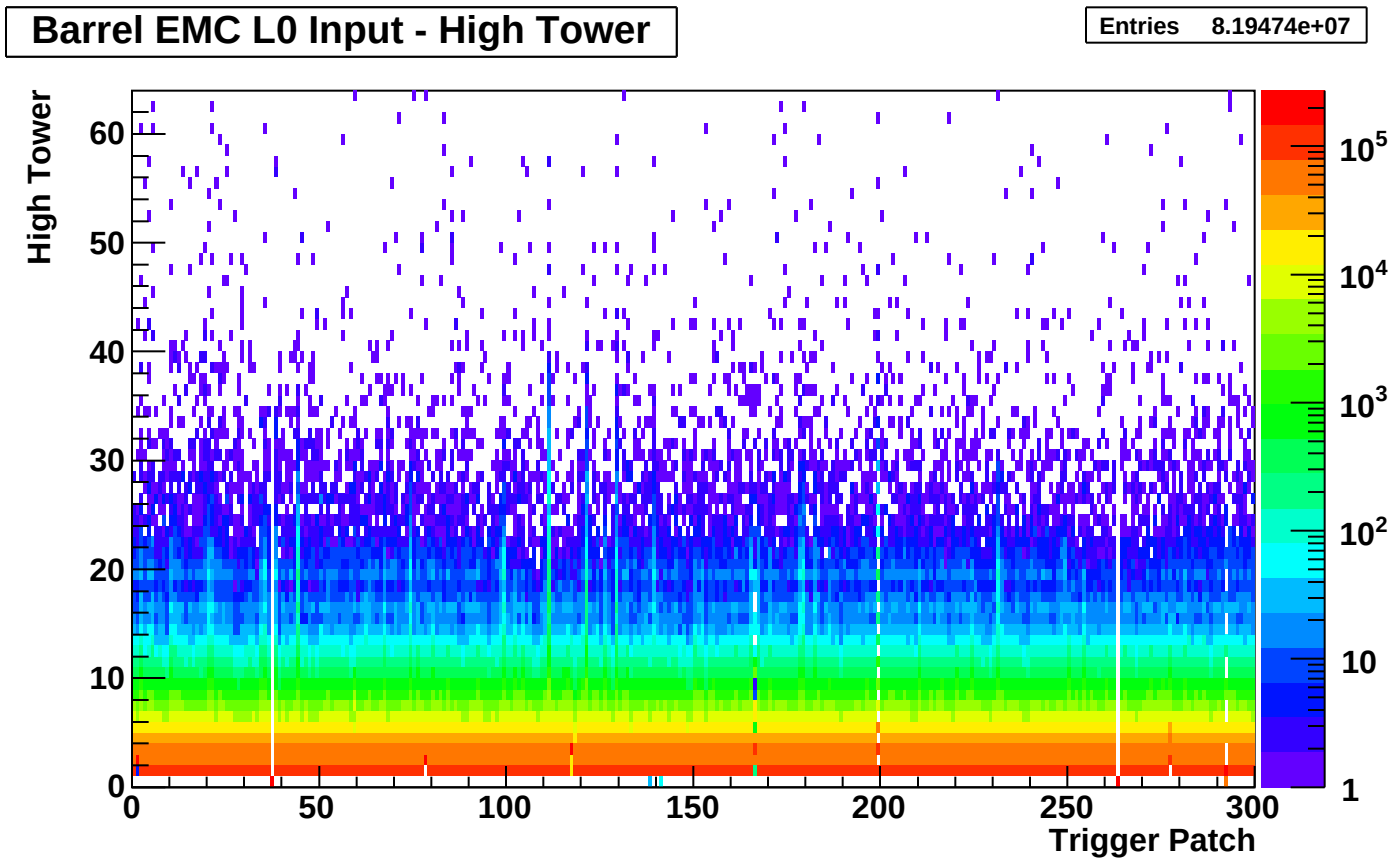

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

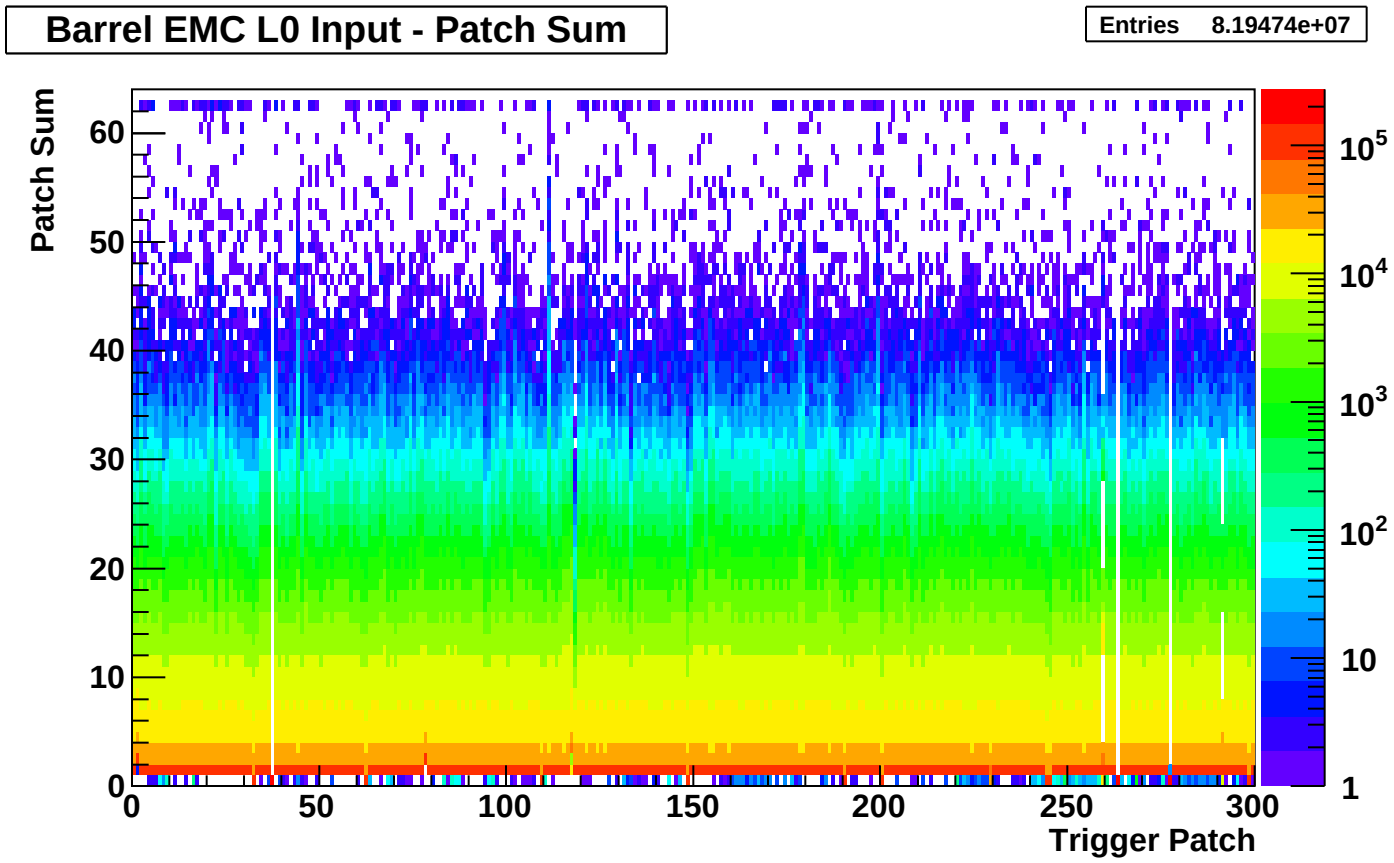

BunchId7Bit (BHT3)
Entries 3634
10
1
0
20
40
60
80
100
120

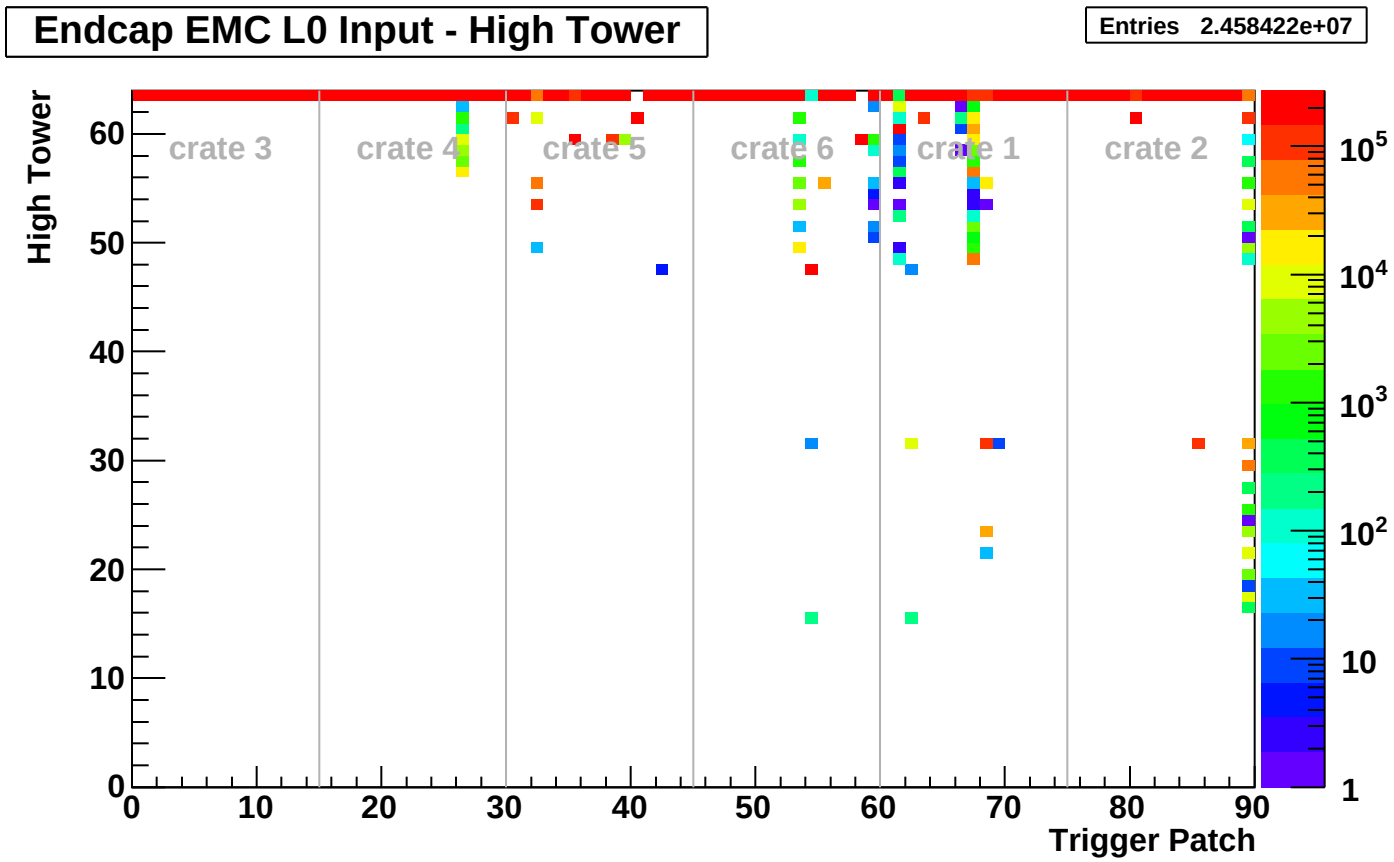

BunchId7Bit (all events)
Entries 273158
10^3
10^2
10
0
20
40
60
80
100
120

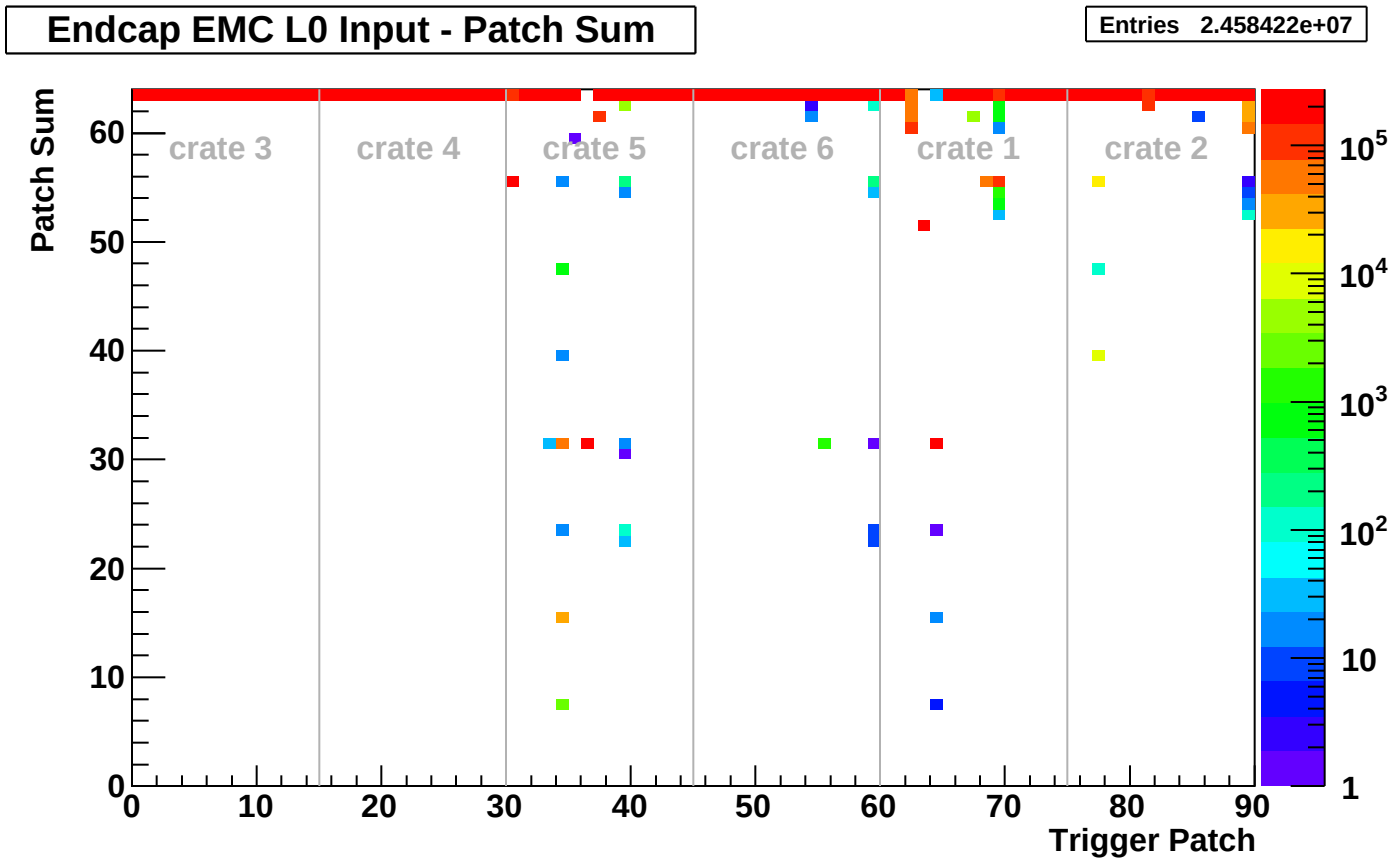

BunchId7Bit (JP1)
Entries 273158
10^3
10^2
10
0
20
40
60
80
100
120

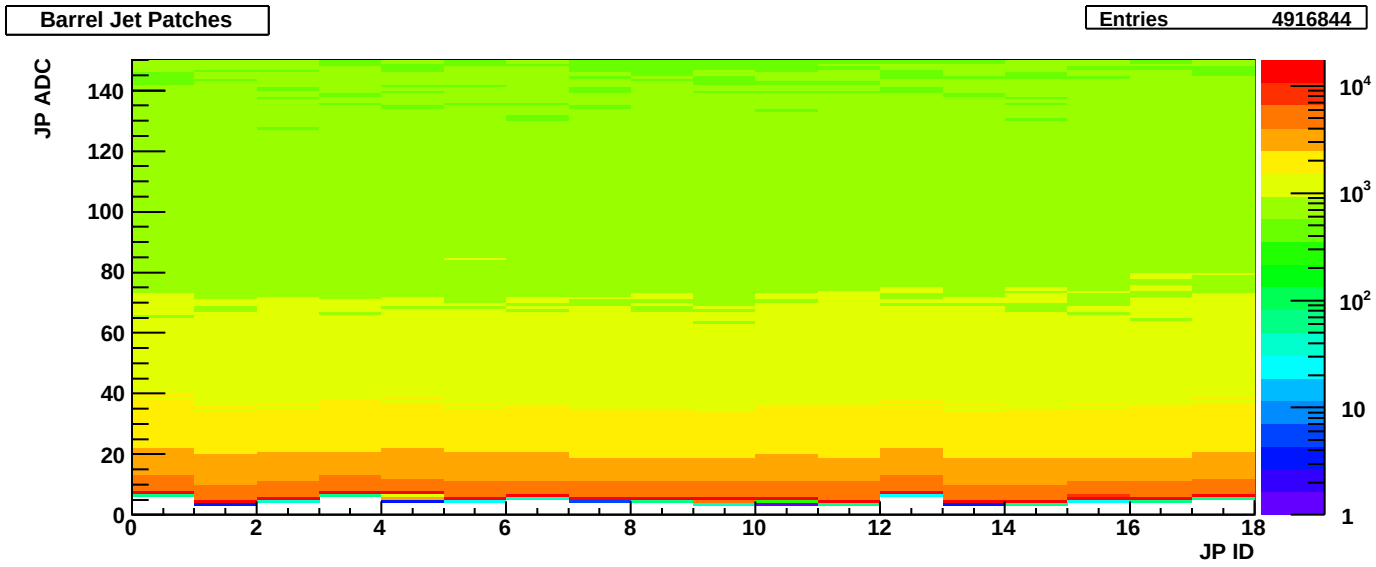

BunchId7Bit (JP2||AJP)
Entries 273158
10^3
10^2
10
0
20
40
60
80
100
120

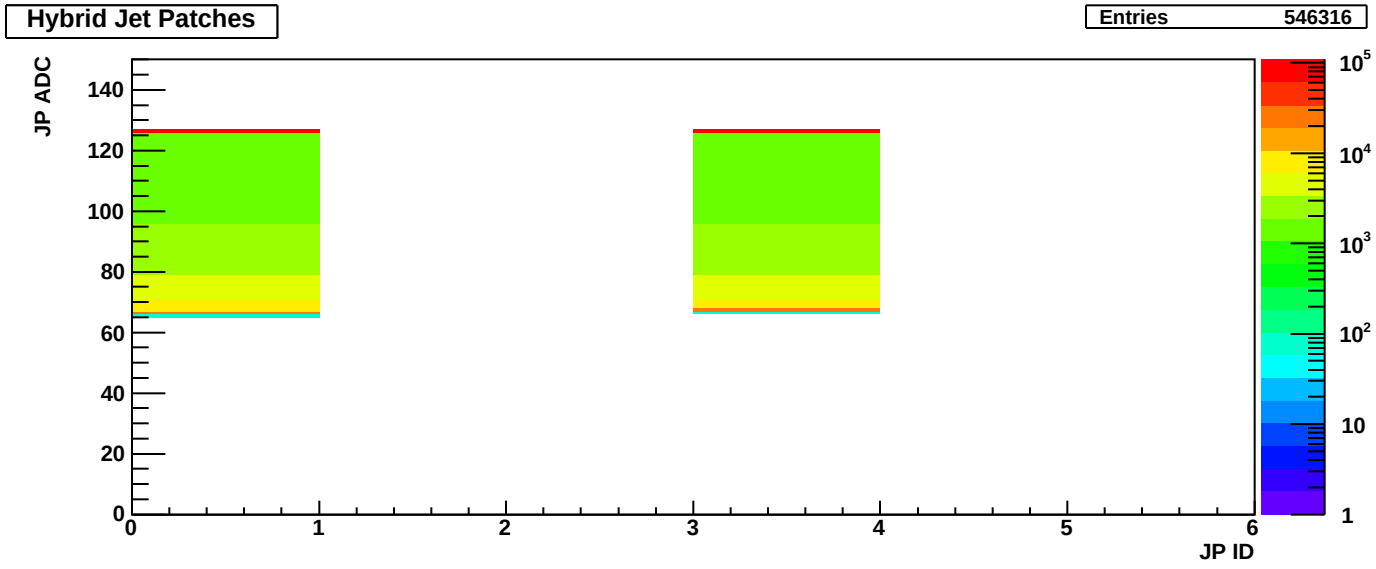

Barrel EMC L0 Input - High Tower
Entries 8.19474e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

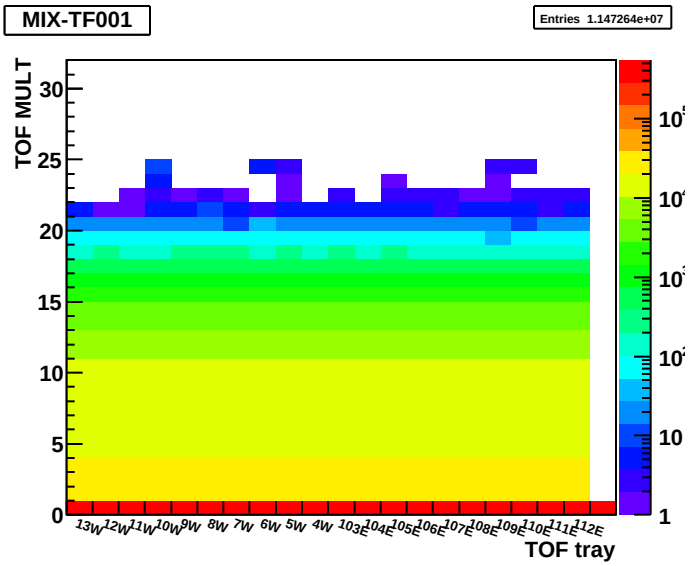

Barrel EMC L0 Input - Patch Sum
Entries 8.19474e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

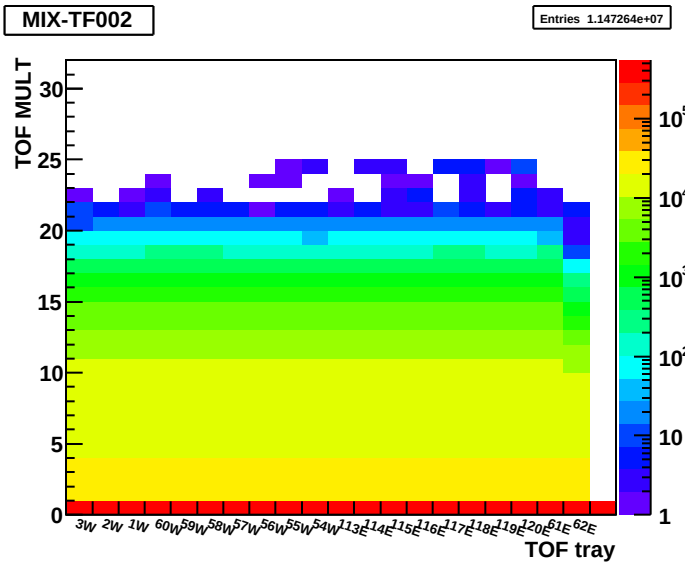

Endcap EMC L0 Input - High Tower
Entries 2.458422e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

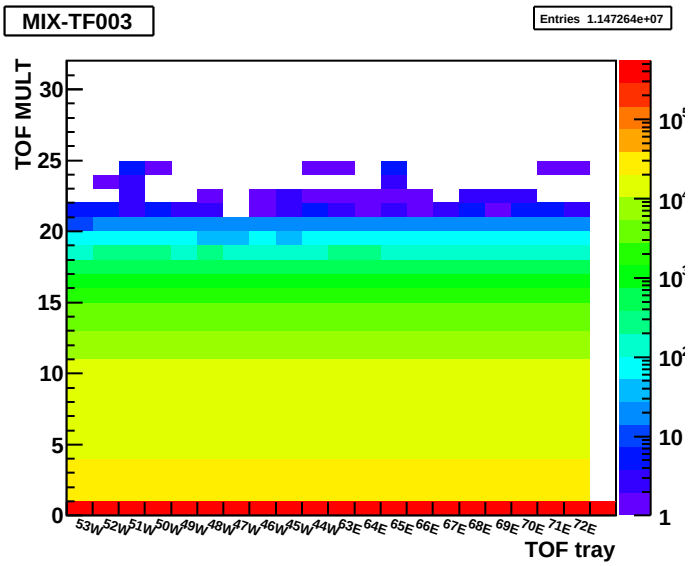

Endcap EMC L0 Input - Patch Sum
Entries 2.458422e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

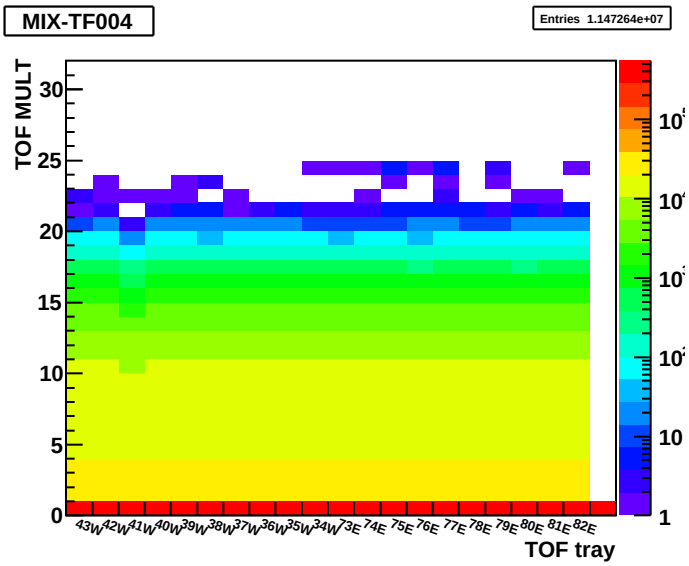

Barrel Jet Patches
Entries 4916844
JP ADC
JP ID

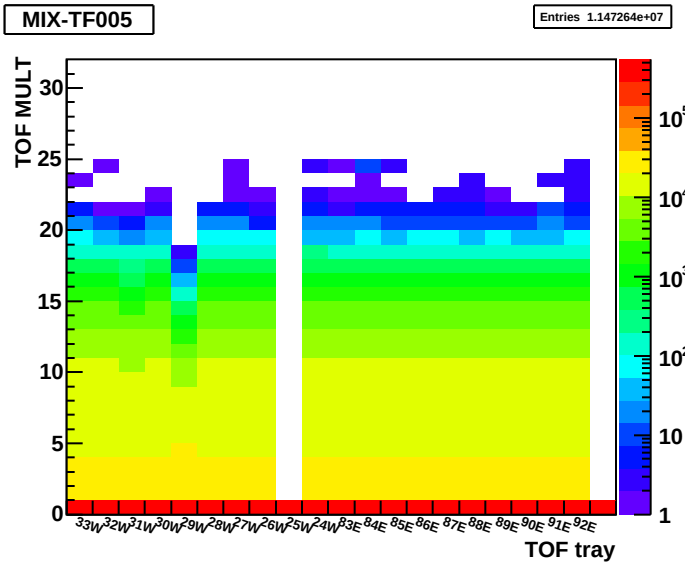

Hybrid Jet Patches
Entries 546316
JP ADC
JP ID

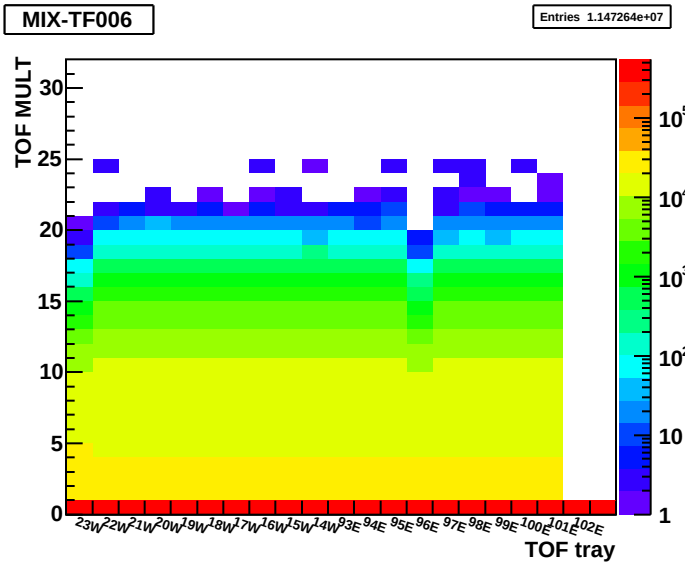

MIX-TF001
Entries 1.147264e+07
TOF MULT
TOF tray

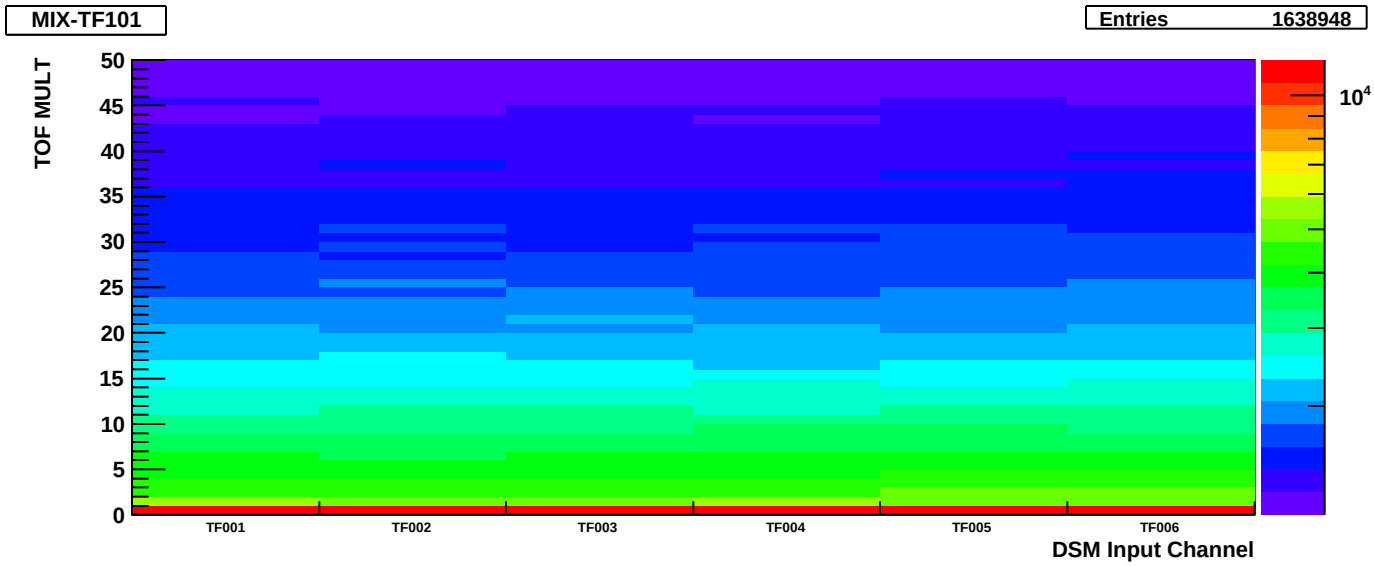

MIX-TF002
Entries 1.147264e+07
TOF MULT
TOF tray

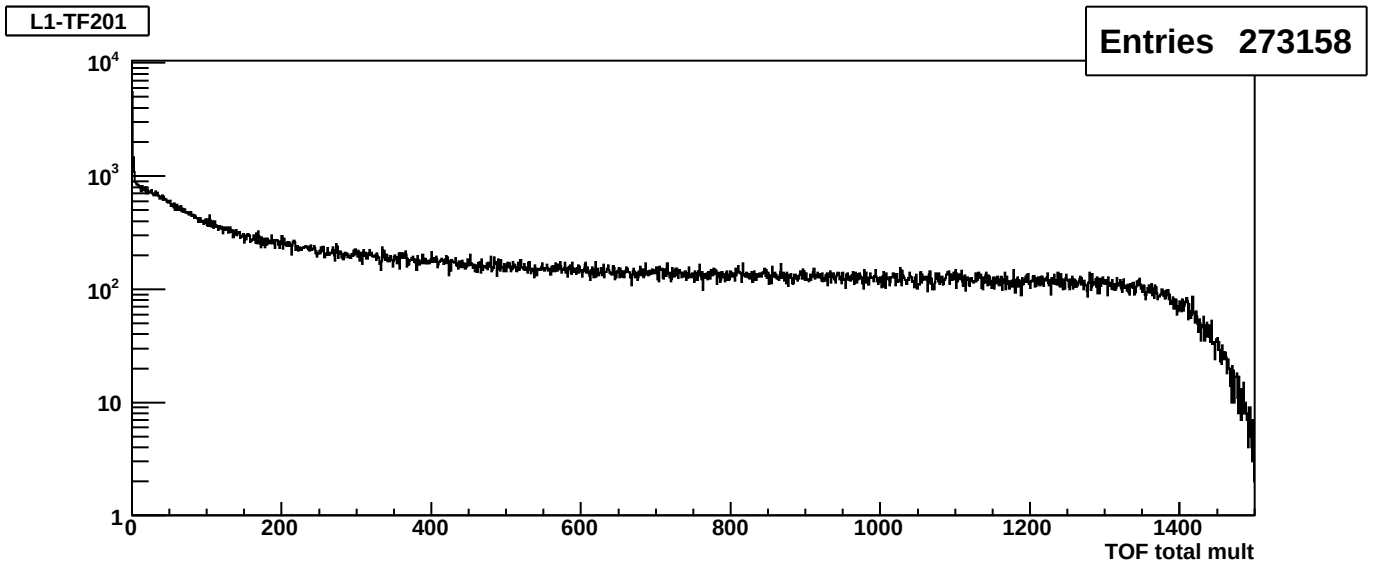

MIX-TF003
Entries 1.147264e+07
TOF MULT
TOF tray

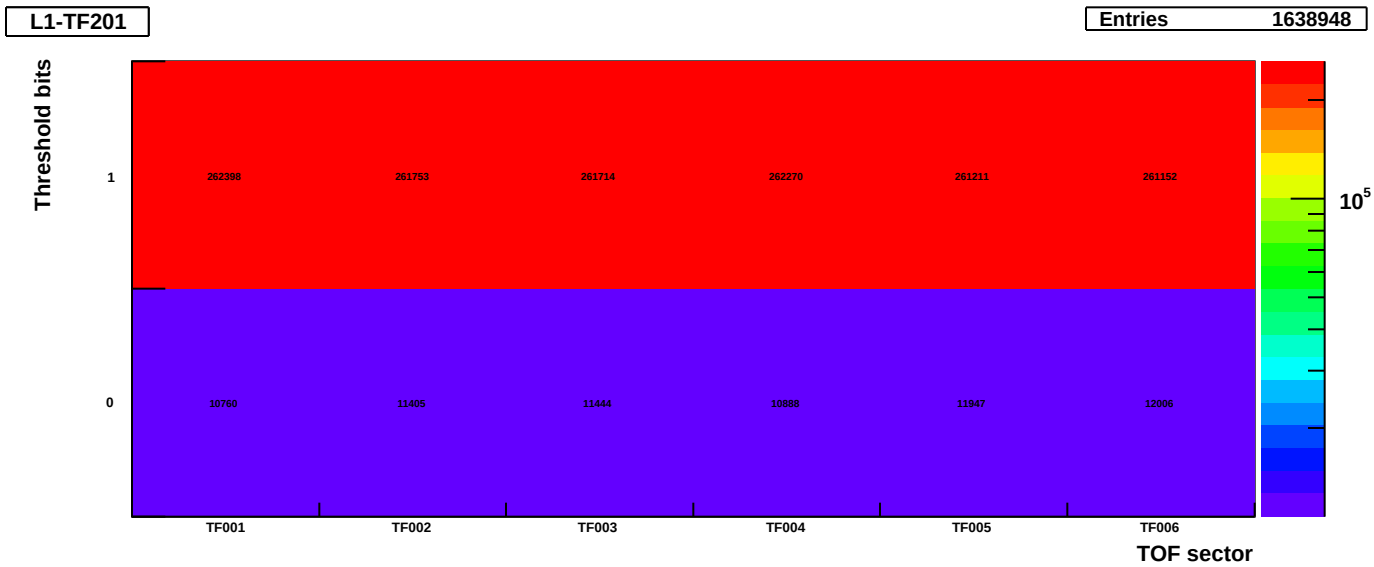

MIX-TF004
Entries 1.147264e+07
TOF MULT
TOF tray

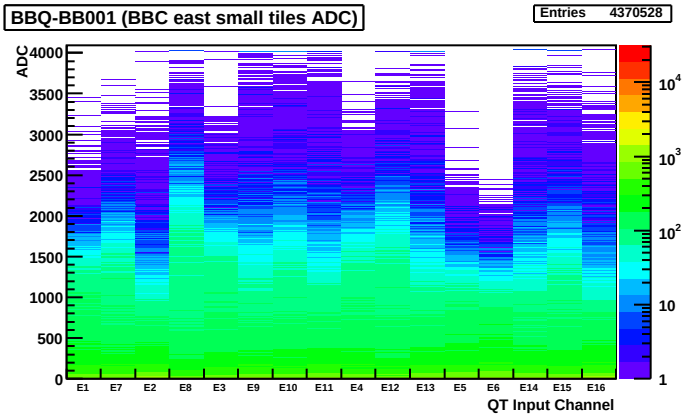

MIX-TF005
Entries 1.147264e+07
TOF MULT
TOF tray

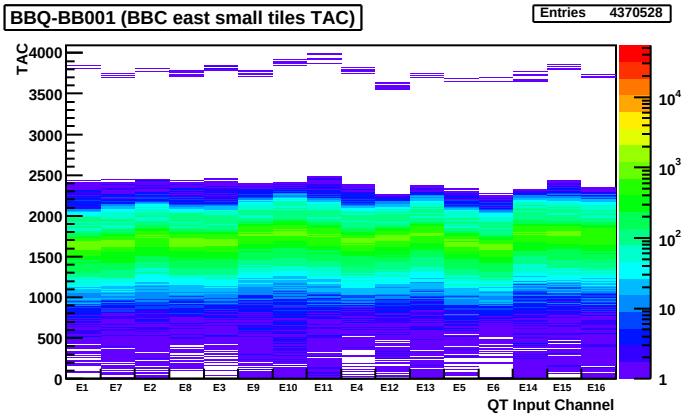

MIX-TF006
Entries 1.147264e+07
TOF MULT
TOF tray

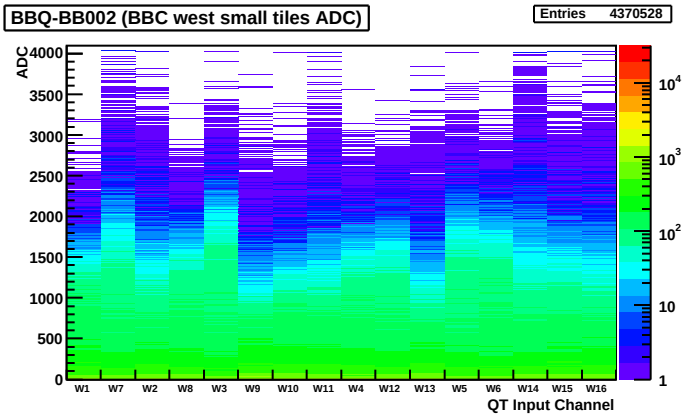

MIX-TF101
Entries 1638948
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

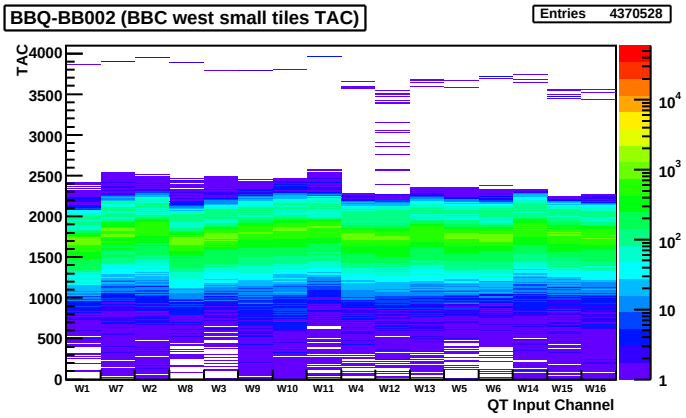

L1-TF201
Entries 273158
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

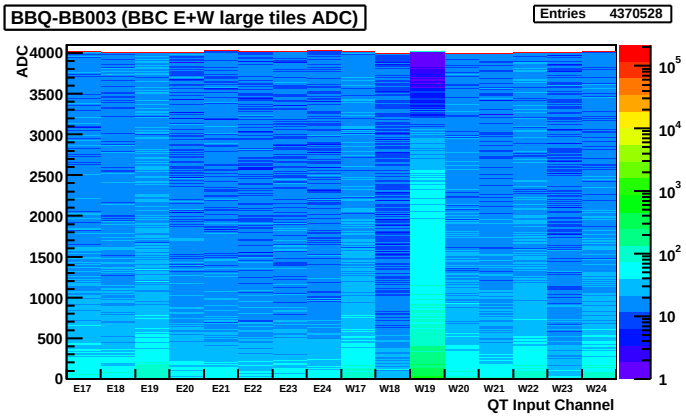

L1-TF201
Entries 1638948
Threshold bits
1
0
262398
261753
261714
262270
261211
261152
10760
11405
11444
10888
11947
12006
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

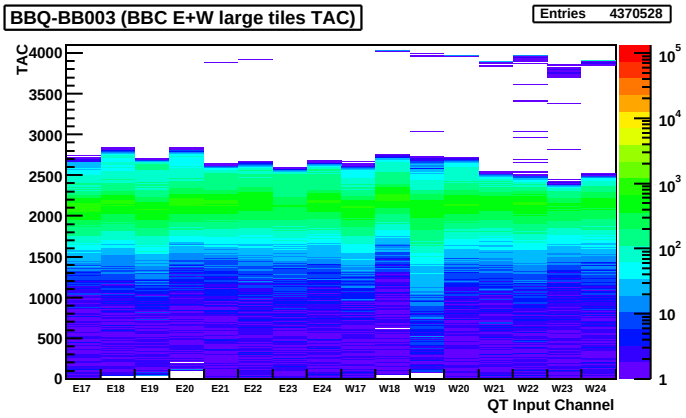

BBQ-BB001 (BBC east small tiles ADC)
Entries 4370528
ADC
QT Input Channel

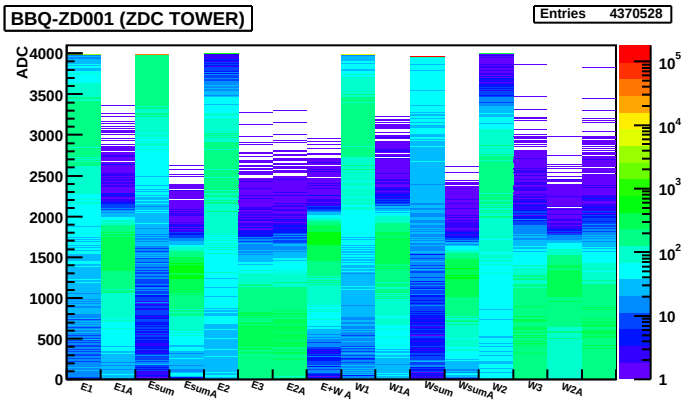

BBQ-BB001 (BBC east small tiles TAC)
Entries 4370528
TAC
QT Input Channel

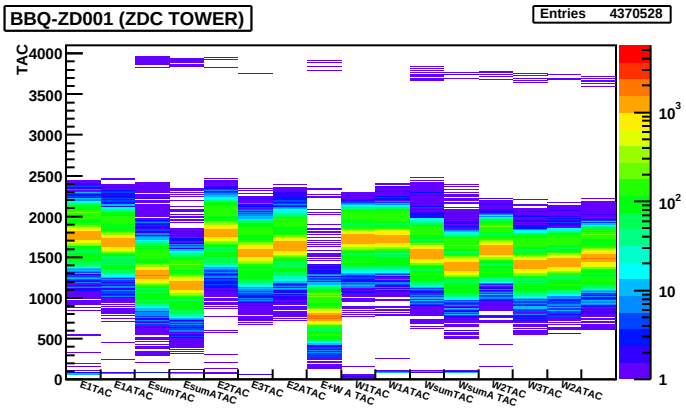

BBQ-BB002 (BBC west small tiles ADC)
Entries 4370528
ADC
QT Input Channel

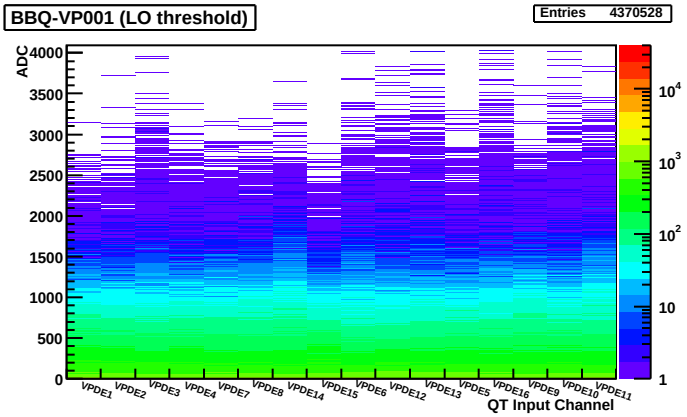

BBQ-BB002 (BBC west small tiles TAC)
Entries 4370528
TAC
QT Input Channel

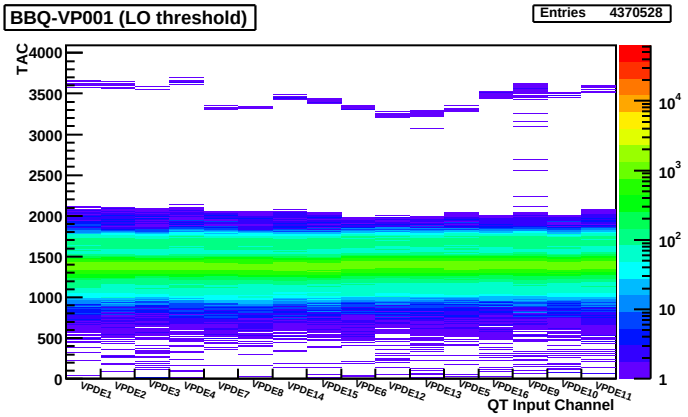

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 4370528
ADC
QT Input Channel

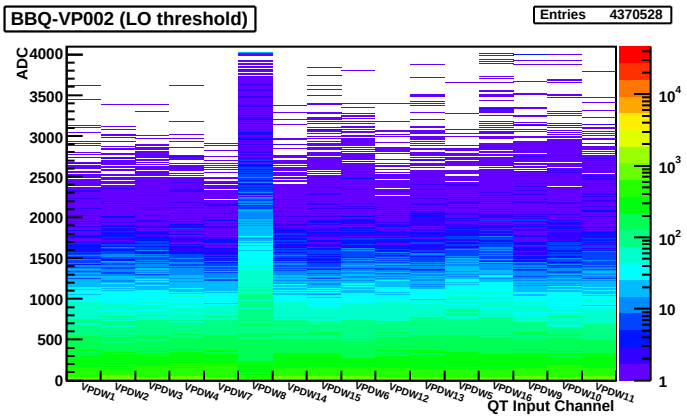

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 4370528
TAC
QT Input Channel

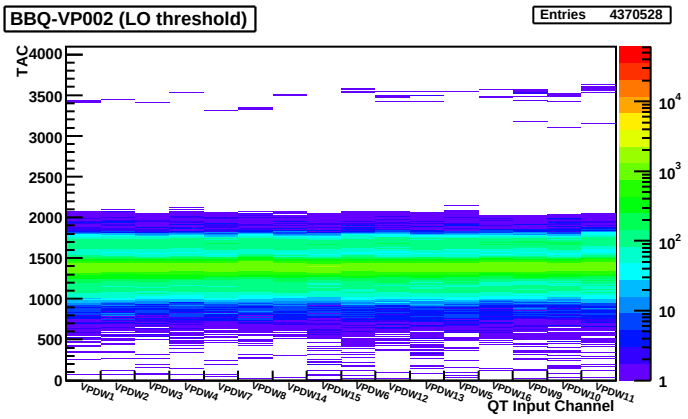

BBQ-ZD001 (ZDC TOWER)
Entries 4370528
ADC

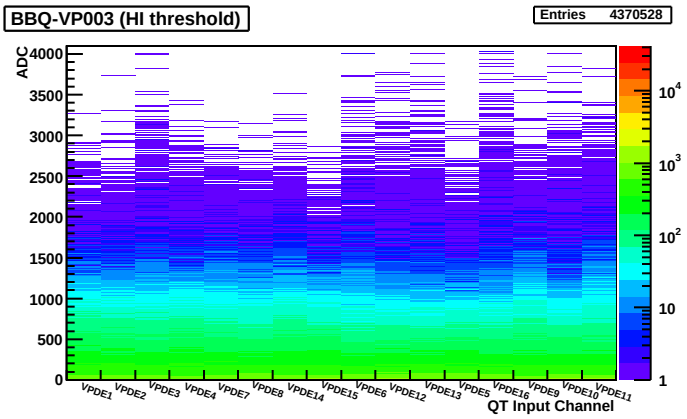

BBQ-ZD001 (ZDC TOWER)
Entries 4370528
TAC

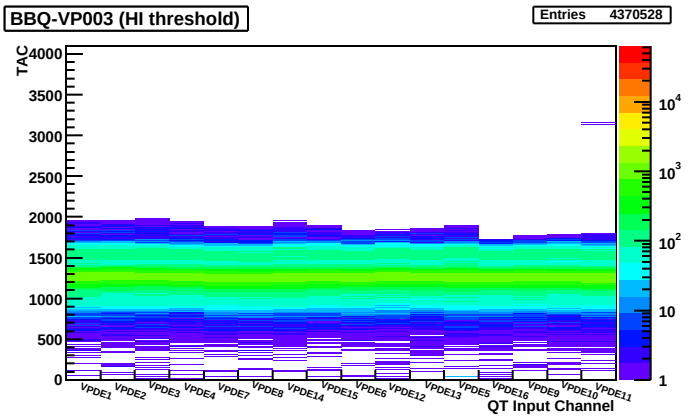

BBQ-VP001 (LO threshold)
Entries 4370528
ADC
QT Input Channel

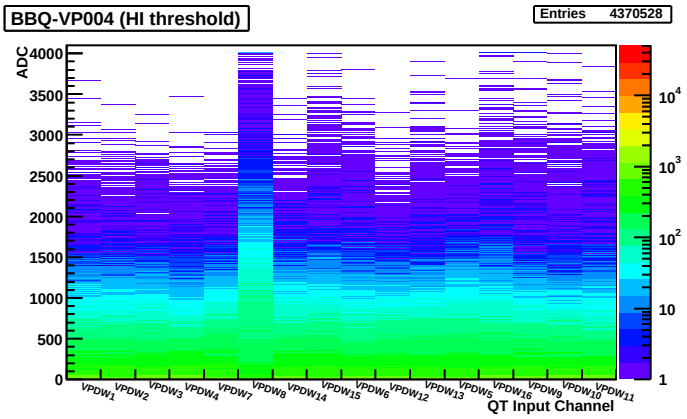

BBQ-VP001 (LO threshold)
Entries 4370528
TAC
QT Input Channel

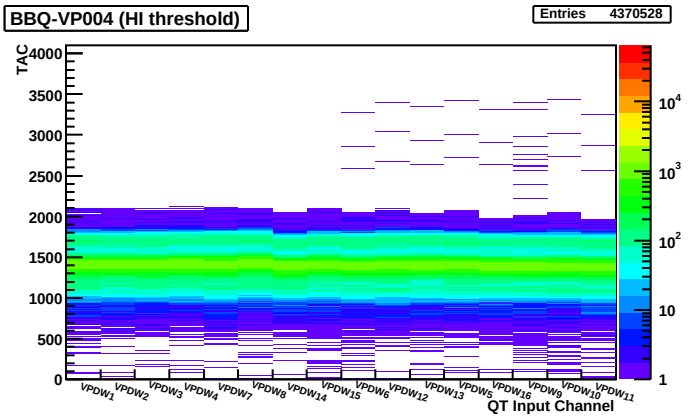

BBQ-VP002 (LO threshold)
Entries 4370528
ADC
QT Input Channel

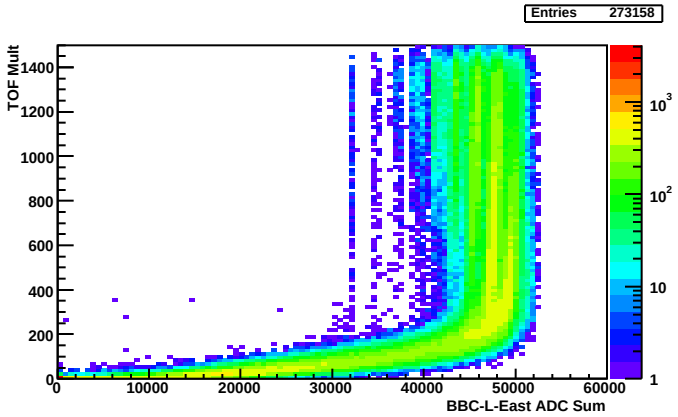

BBQ-VP002 (LO threshold)
Entries 4370528
TAC
QT Input Channel

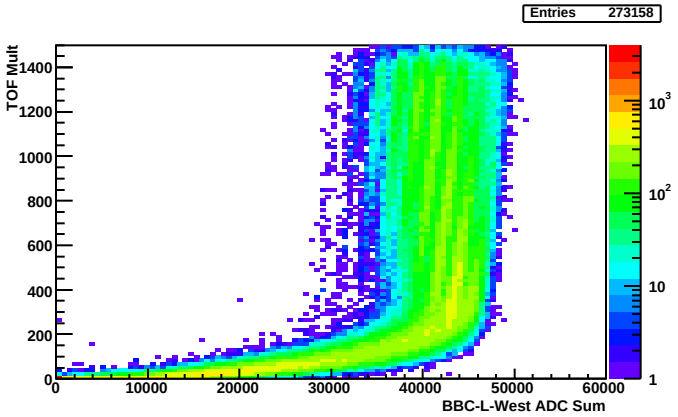

BBQ-VP003 (HI threshold)
Entries 4370528
ADC
QT Input Channel

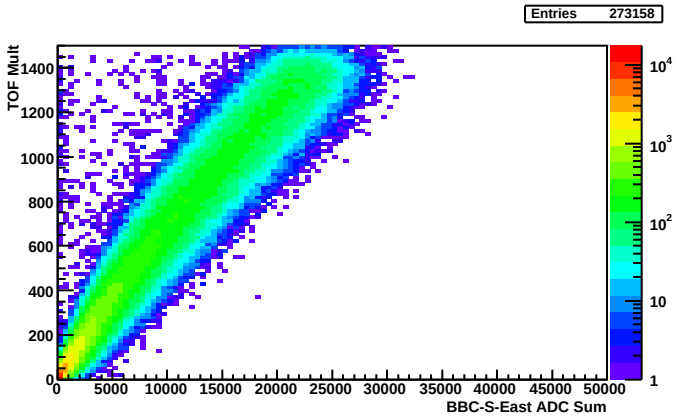

BBQ-VP003 (HI threshold)
Entries 4370528
TAC
QT Input Channel

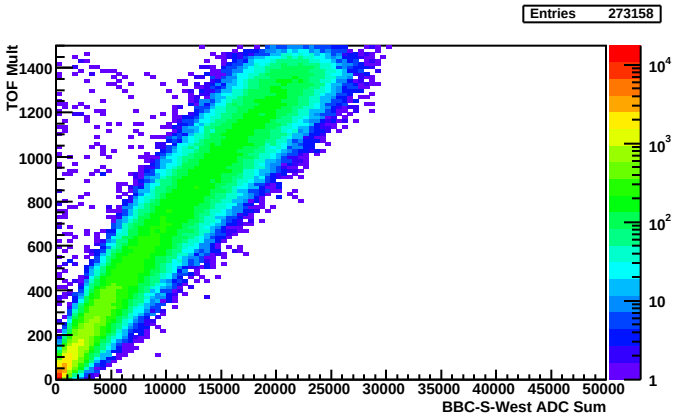

BBQ-VP004 (HI threshold)
Entries 4370528
ADC
QT Input Channel

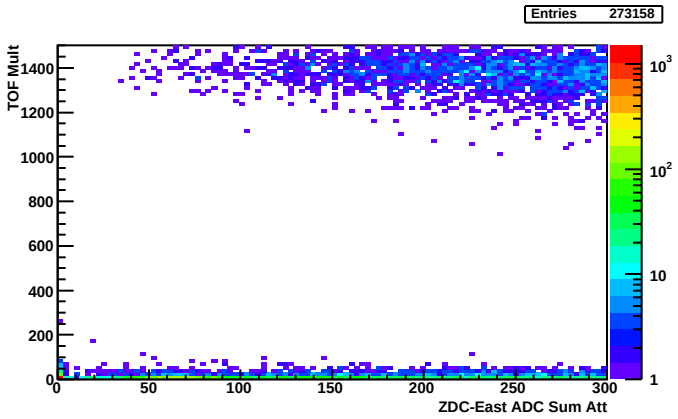

BBQ-VP004 (HI threshold)
Entries 4370528
TAC
QT Input Channel

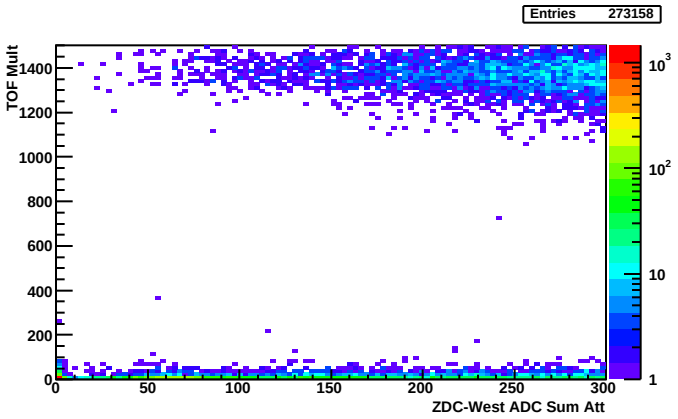

Entries 273158
TOF Mult
BBC-L-East ADC Sum

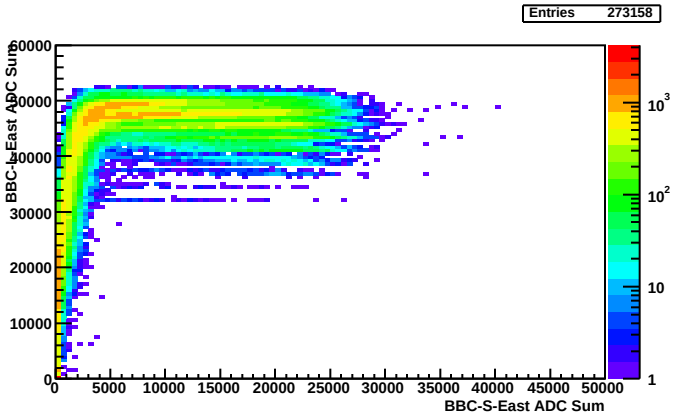

Entries 273158
TOF Mult
BBC-L-West ADC Sum

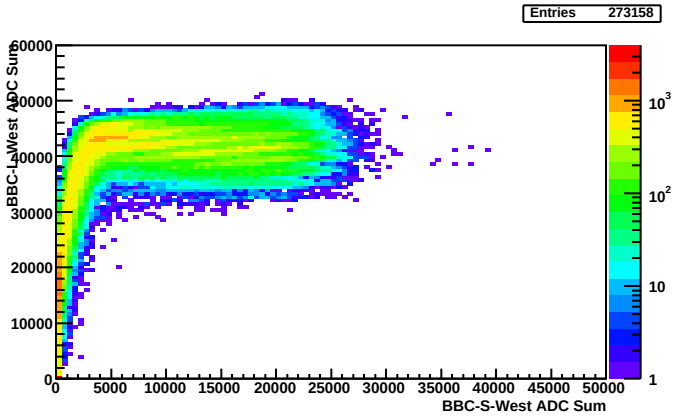

Entries 273158
TOF Mult
BBC-S-East ADC Sum

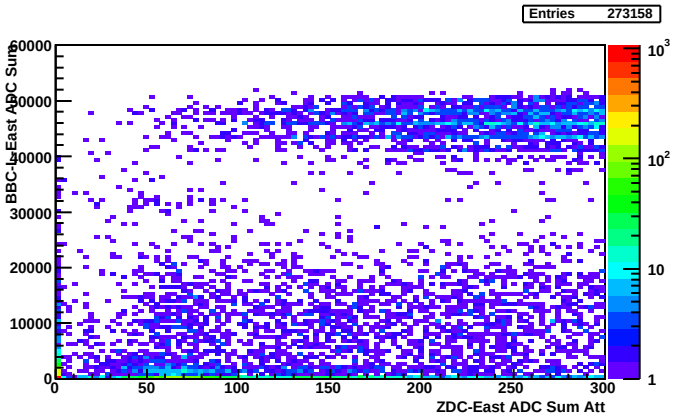

Entries 273158
TOF Mult
BBC-S-West ADC Sum

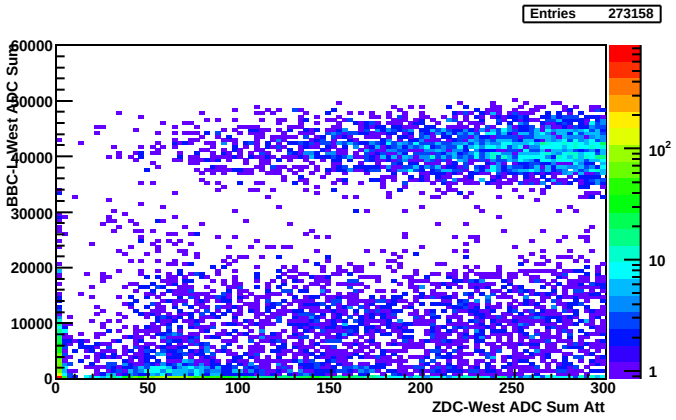

Entries 273158
TOF Mult
ZDC-East ADC Sum Att

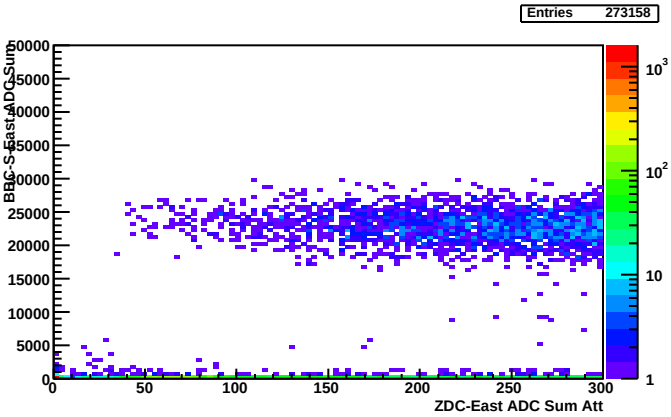

Entries 273158
TOF Mult
ZDC-West ADC Sum Att


Entries 273158
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 273158
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 273158
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 273158
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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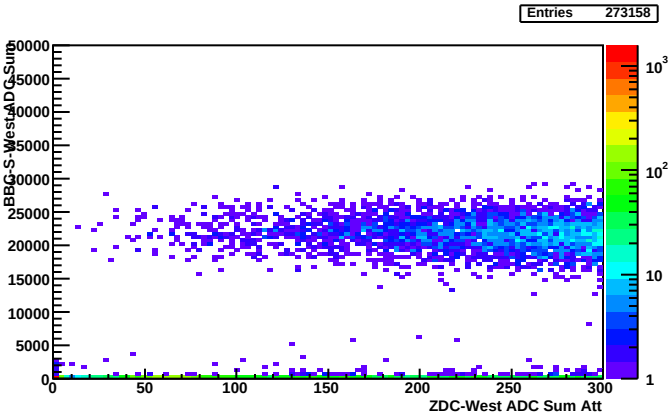
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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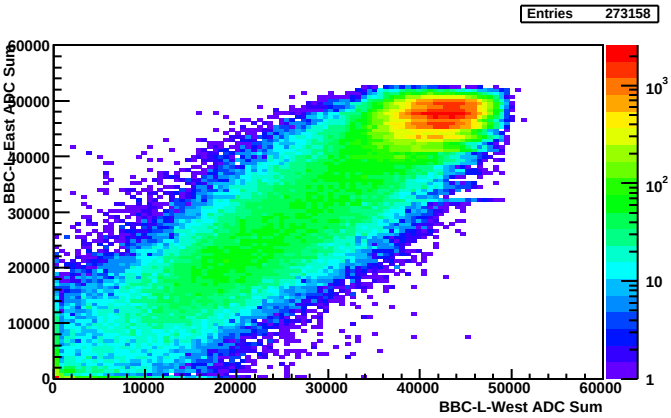
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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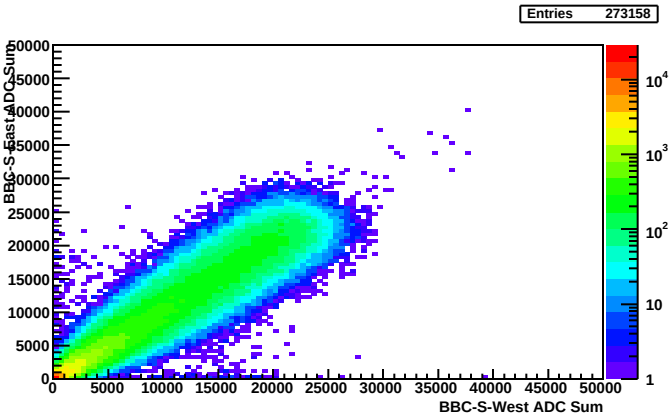
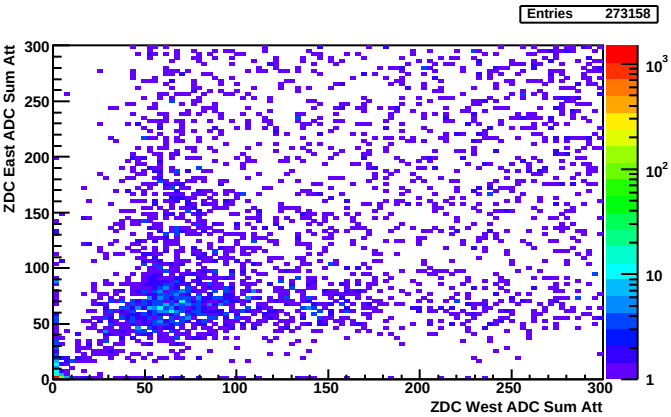
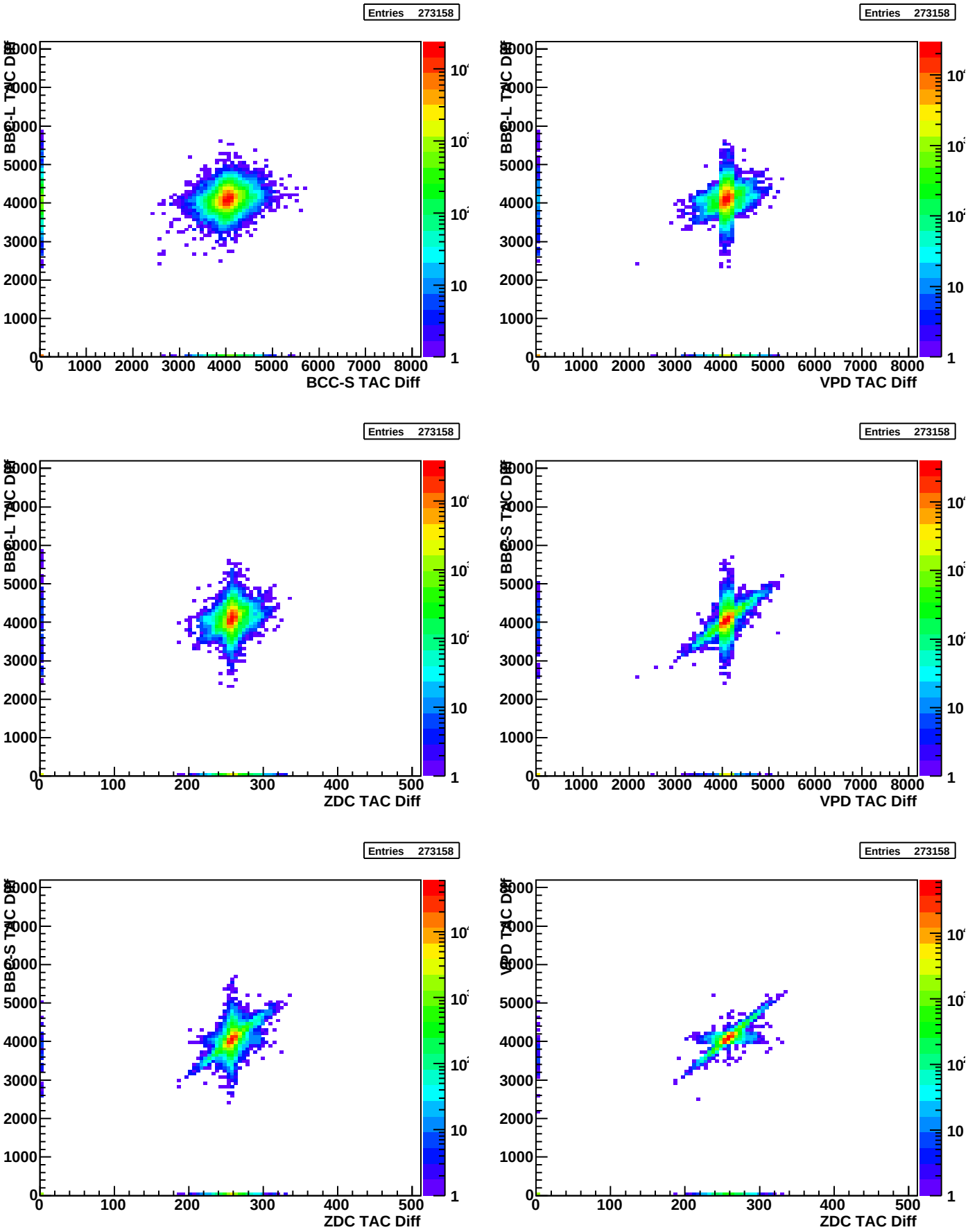
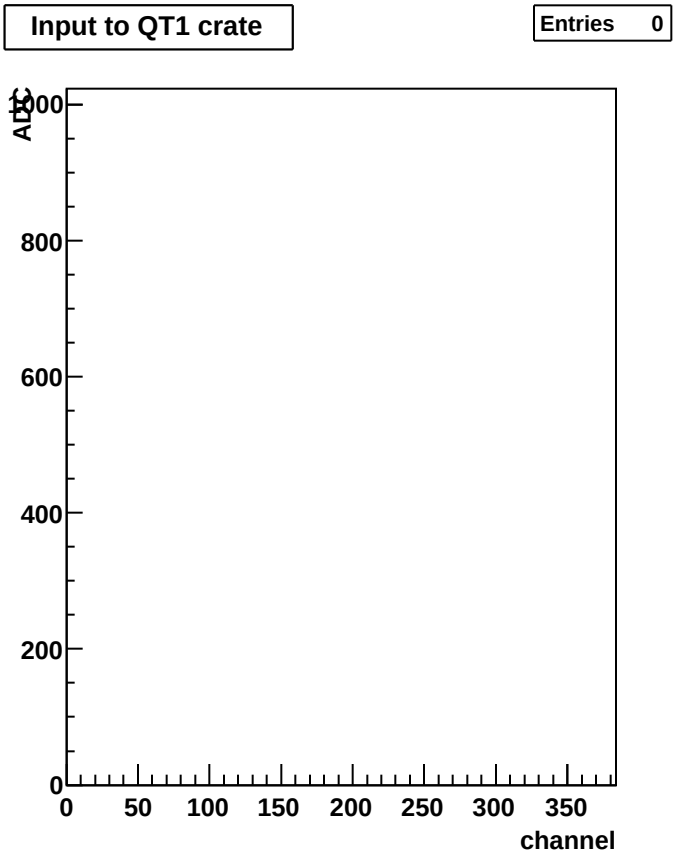
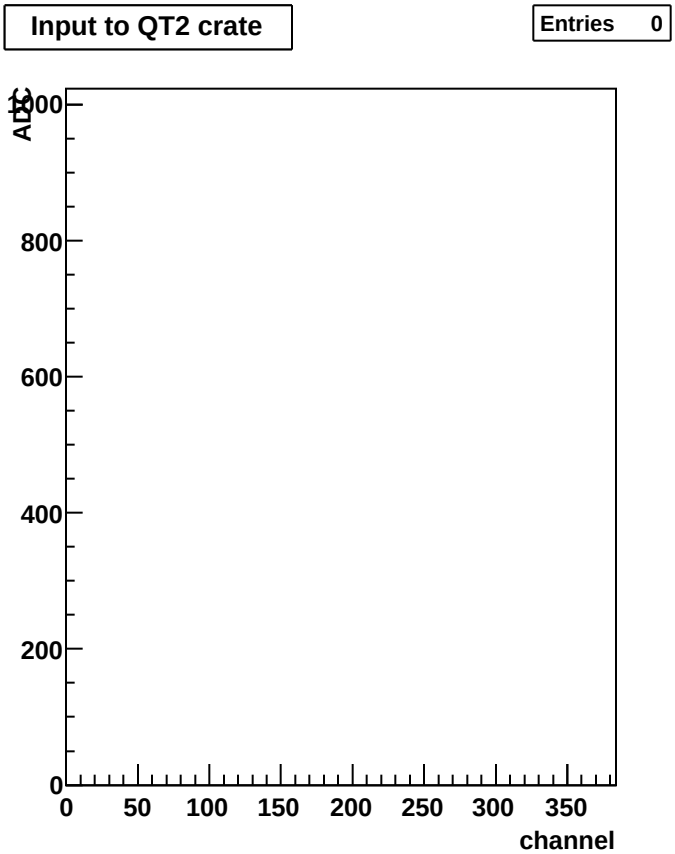
BBC-L-East ADC Sum
BBC-L-West ADC Sum

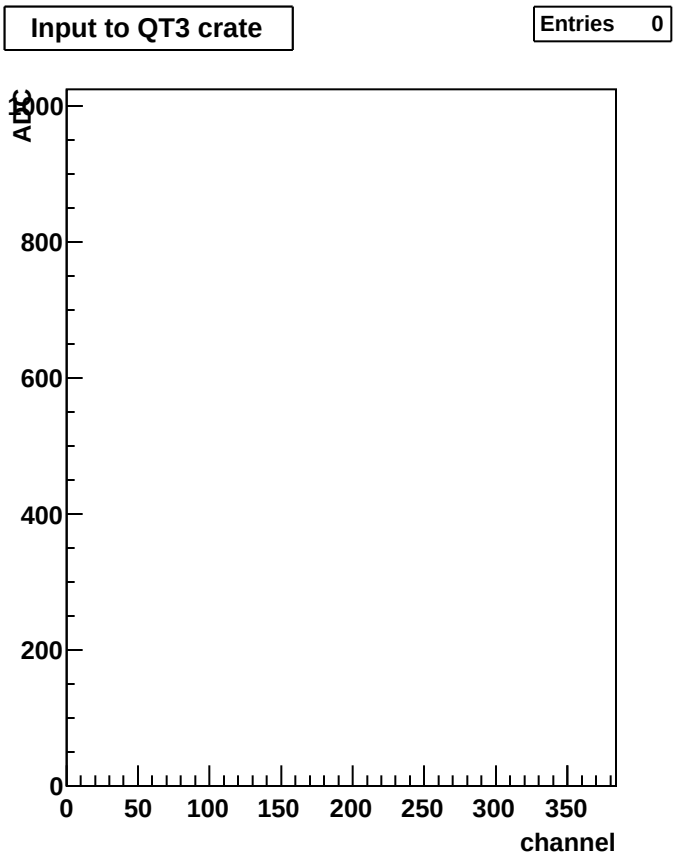

Entries 273158
BBC-S-East ADC Sum
BBC-S-West ADC Sum

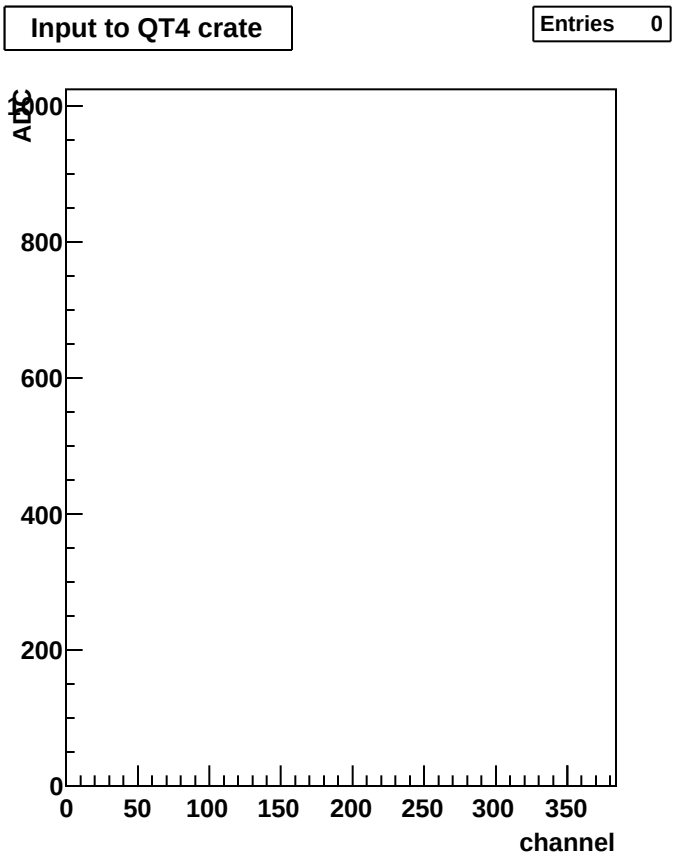

Entries 273158
ZDC East ADC Sum Att
ZDC West ADC Sum Att

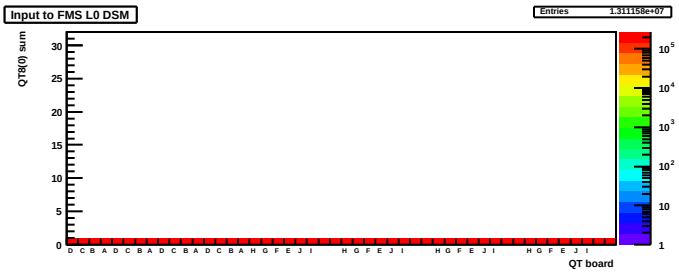

Entries 273158
BBC-L TAC Diff
BCC-S TAC Diff
Entries 273158
BBC-L TAC Diff
VPD TAC Diff
Entries 273158
BBC-L TAC Diff
ZDC TAC Diff
Entries 273158
BBC-S TAC Diff
VPD TAC Diff
Entries 273158
BBC-S TAC Diff
ZDC TAC Diff
Entries 273158
VPD TAC Diff
ZDC TAC Diff

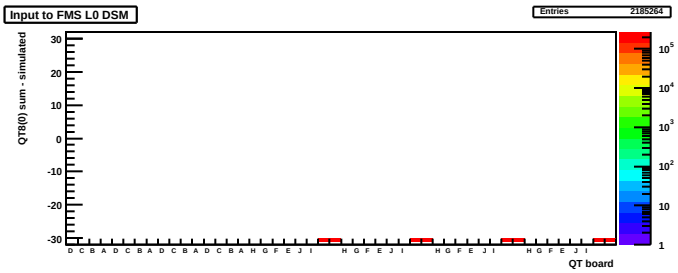

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

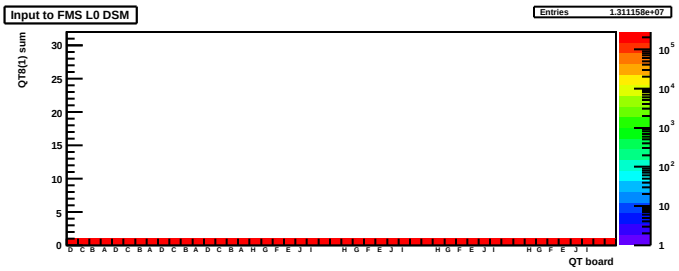

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

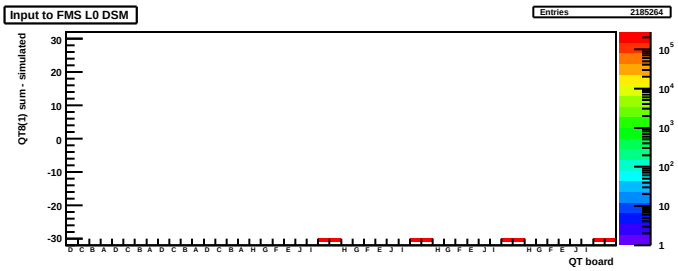

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

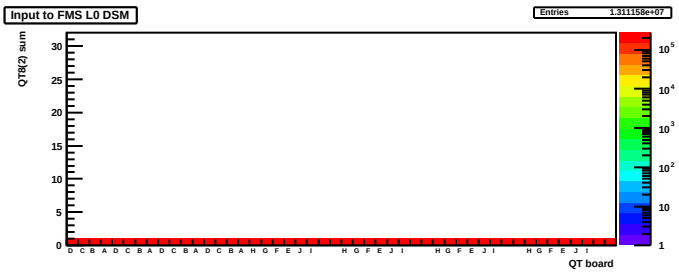

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

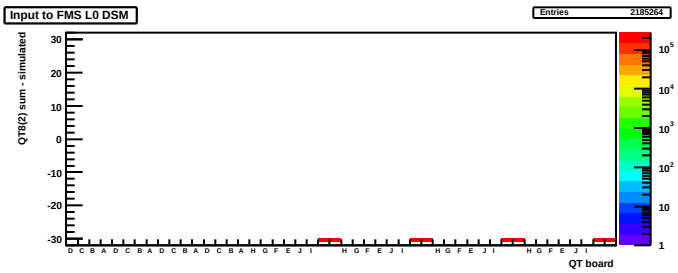

Input to FMS L0 DSM
Entries 1.311158e+07
QT8(0) sum
QT board

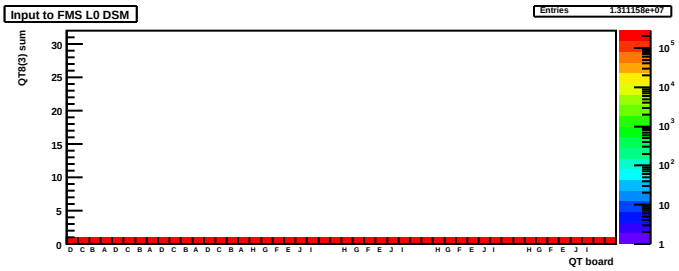

Input to FMS L0 DSM
Entries 2185264
QT8(0) sum - simulated
QT board

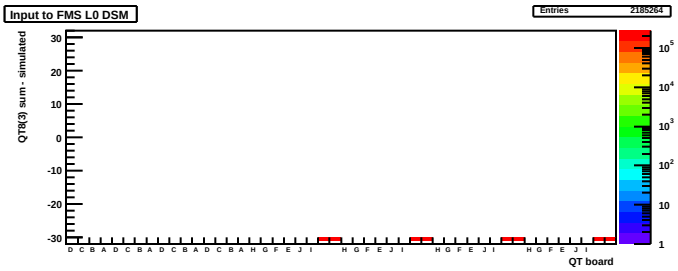

Input to FMS L0 DSM
Entries 1.311158e+07
QT8(1) sum
QT board

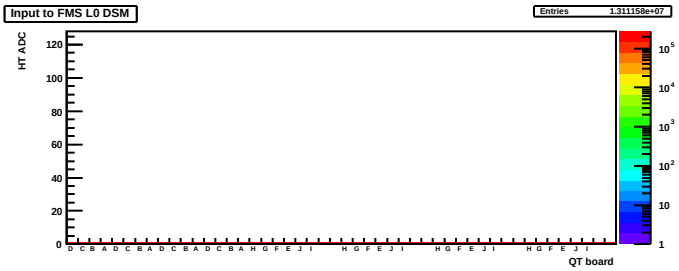

Input to FMS L0 DSM
Entries 2185264
QT8(1) sum - simulated
QT board

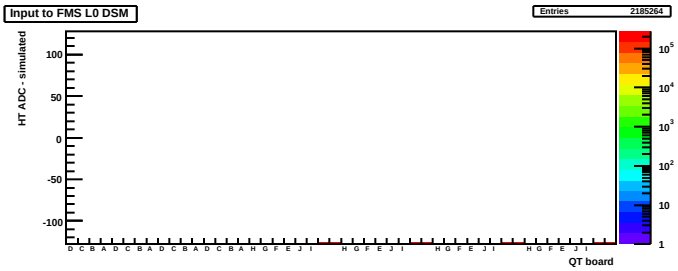

Input to FMS L0 DSM
Entries 1.311158e+07
QT8(2) sum
QT board

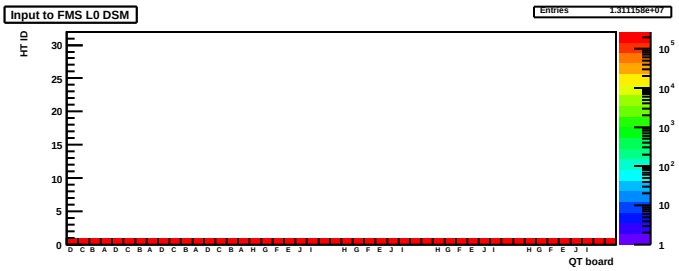

Input to FMS L0 DSM
Entries 2185264
QT8(2) sum - simulated
QT board

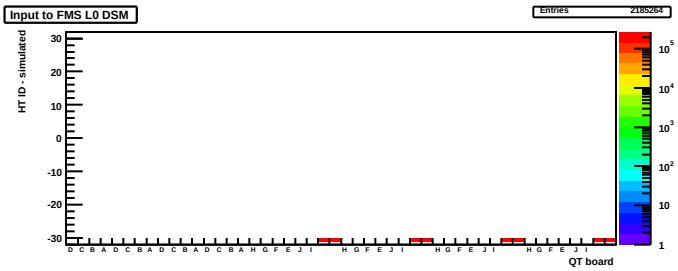

Input to FMS L0 DSM
Entries 1.311158e+07
QT8(3) sum
QT board

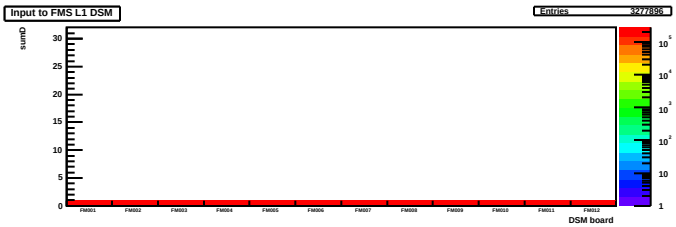

Input to FMS L0 DSM
Entries 2185264
QT8(3) sum - simulated
QT board

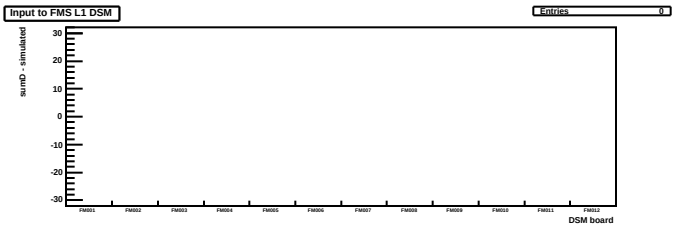

Input to FMS L0 DSM
Entries 1.311158e+07
HT ADC
QT board

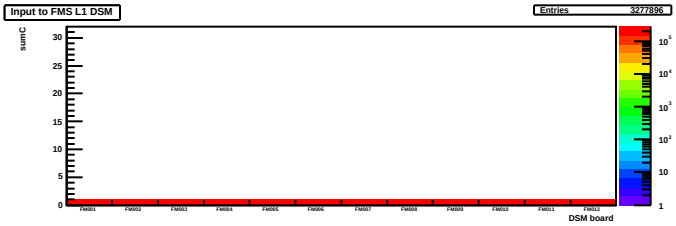

Input to FMS L0 DSM
Entries 2185264
HT ADC - simulated
QT board

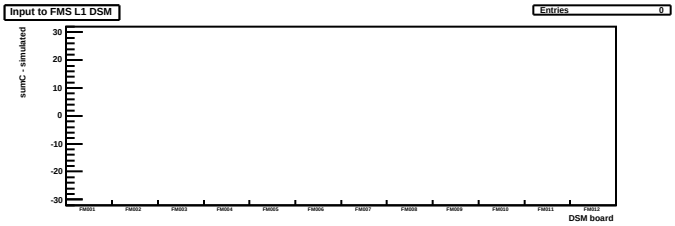

Input to FMS L0 DSM
Entries 1.311158e+07
HT ID
QT board

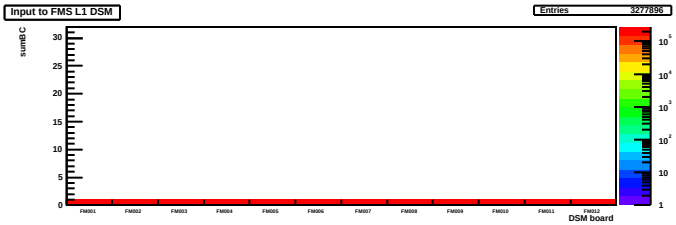

Input to FMS L0 DSM
Entries 2185264
HT ID - simulated
QT board

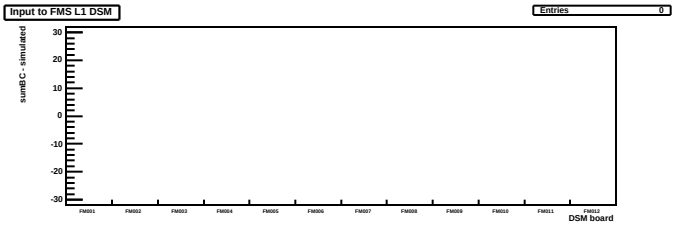

Input to FMS L1 DSM
Entries 3277896
sumD
DSM board

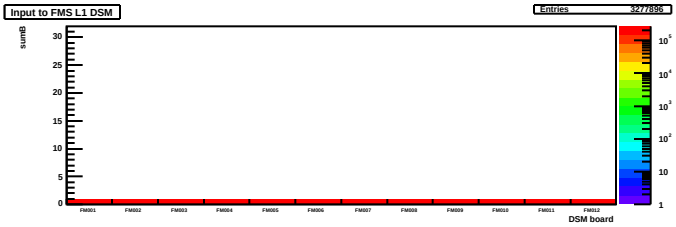

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

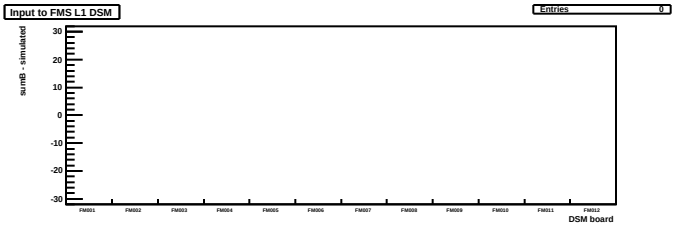

Input to FMS L1 DSM
Entries 3277896
sumC
DSM board

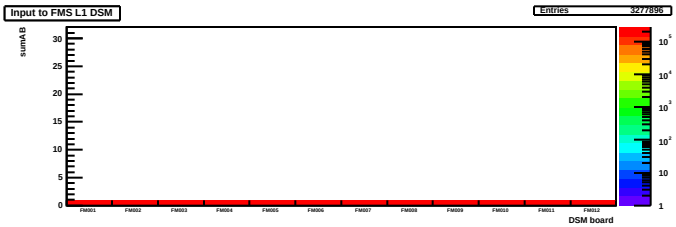

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

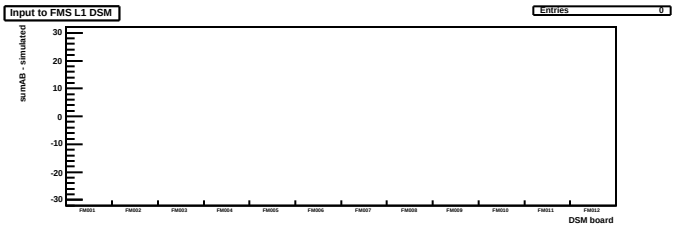

Input to FMS L1 DSM
Entries 3277896
sumBC
DSM board

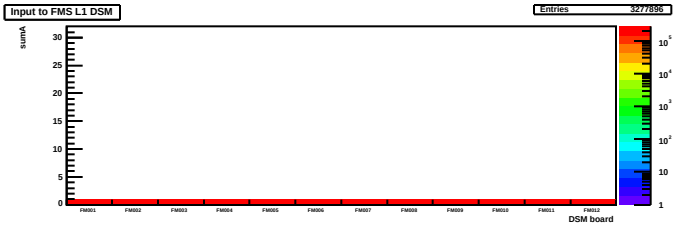

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

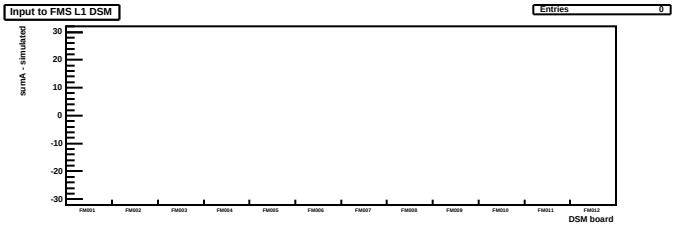

Input to FMS L1 DSM
Entries 3277896
sumB
DSM board

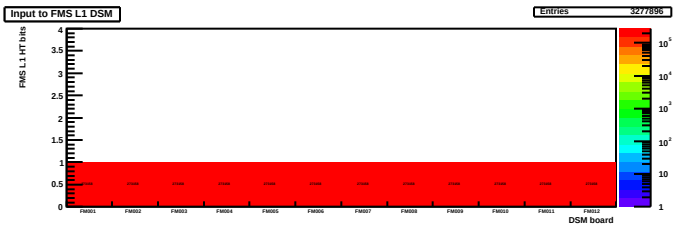

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

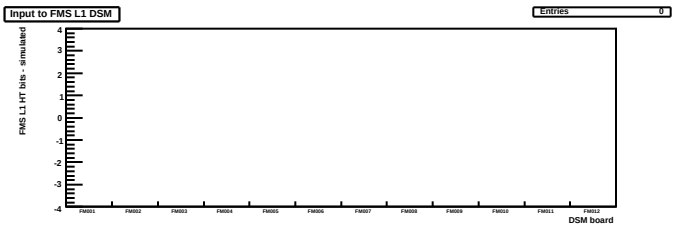

Input to FMS L1 DSM
Entries 3277896
sumAB
DSM board

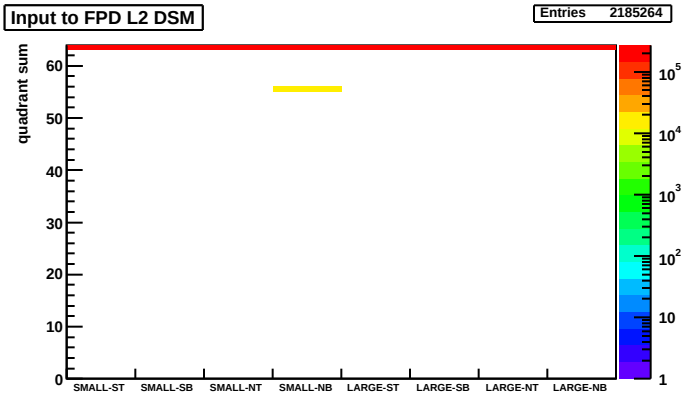

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

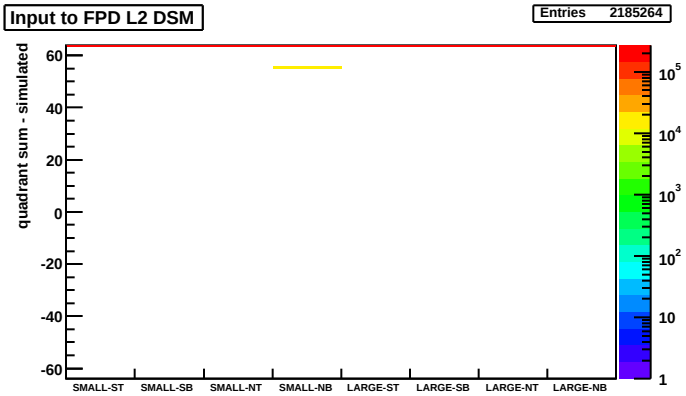

Input to FMS L1 DSM
Entries 3277896
sumA
DSM board

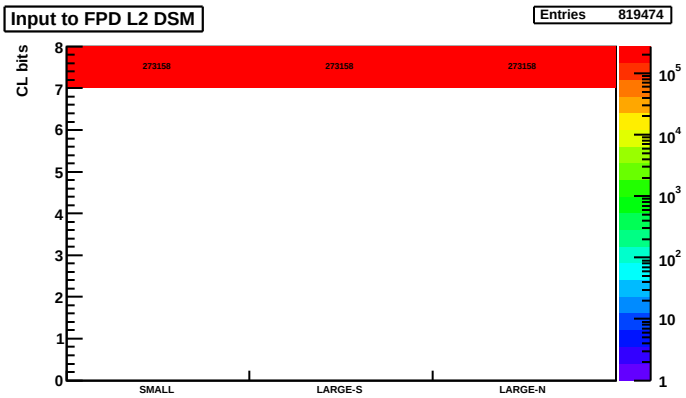

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

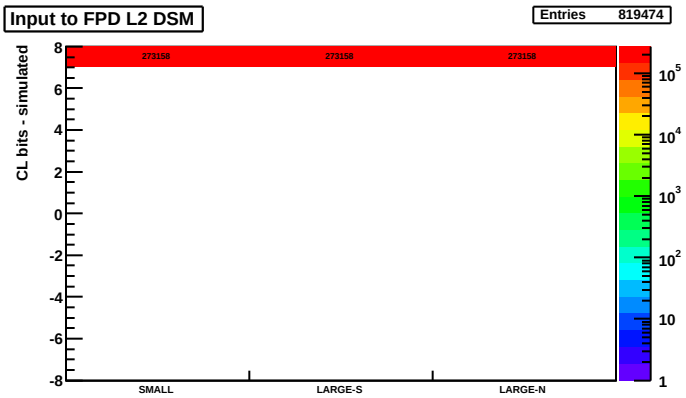

Input to FMS L1 DSM
Entries 3277896
FMS L1 HT bits
DSM board

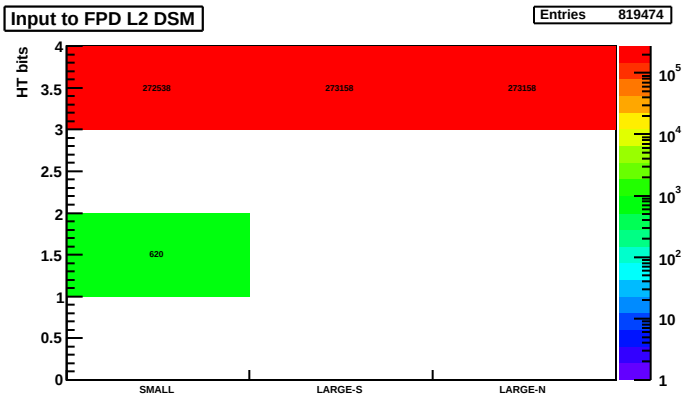

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

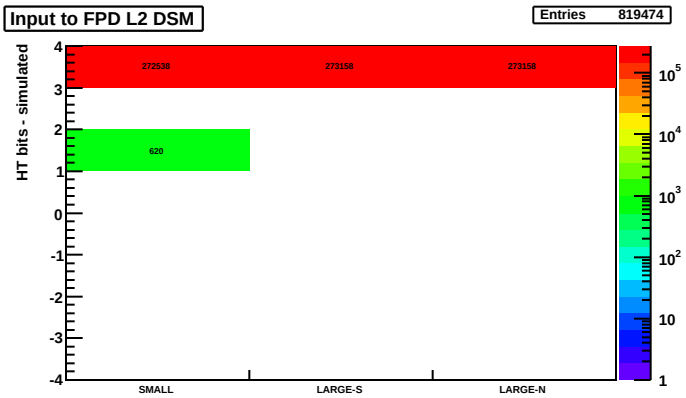

Input to FPD L2 DSM
Entries 2185264
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

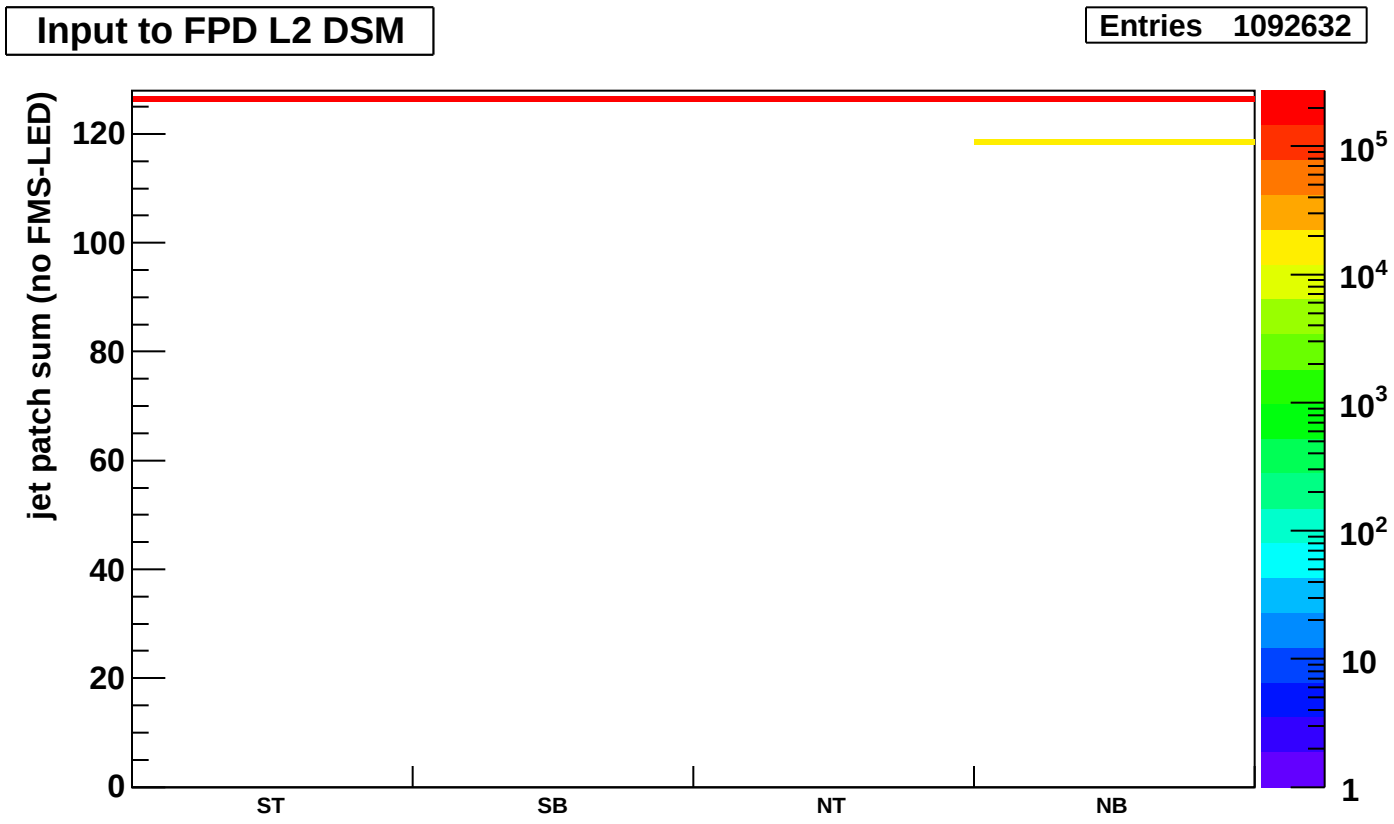

Input to FPD L2 DSM
Entries 2185264
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

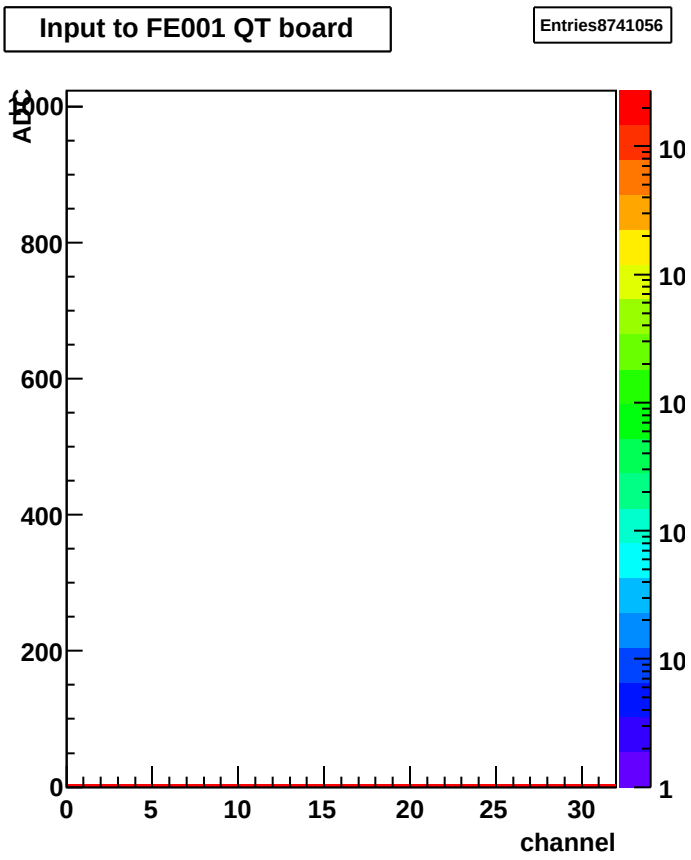

Input to FPD L2 DSM
Entries 819474
CL bits
273158
273158
273158
SMALL
LARGE-S
LARGE-N

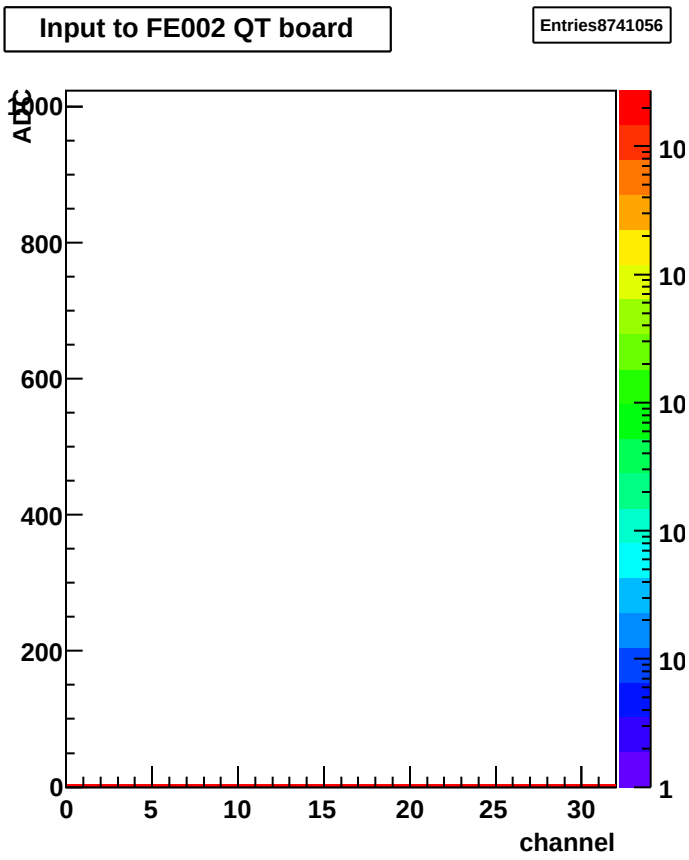

Input to FPD L2 DSM
Entries 819474
CL bits - simulated
273158
273158
273158
SMALL
LARGE-S
LARGE-N

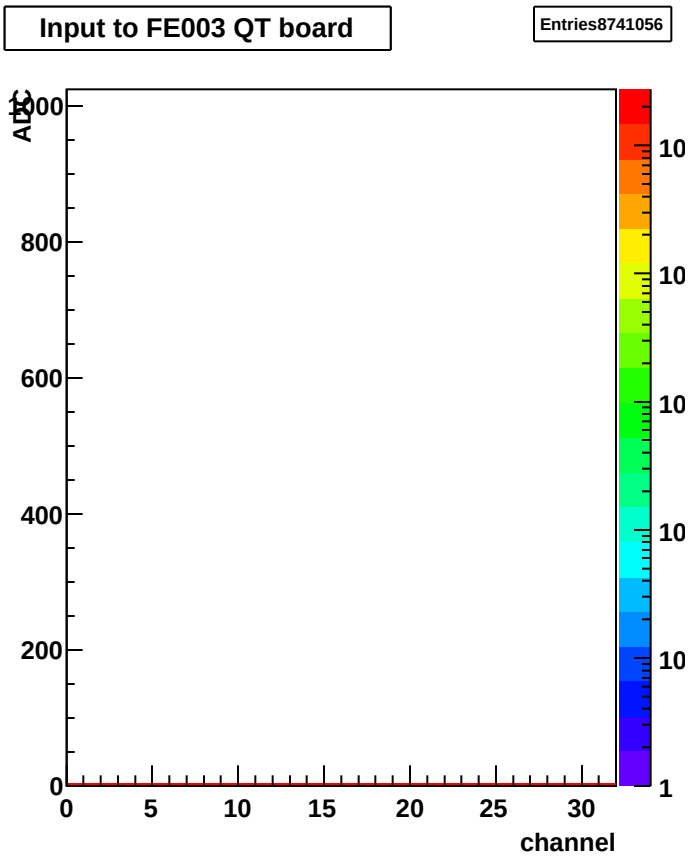

Input to FPD L2 DSM
Entries 819474
HT bits
272538
273158
273158
620
SMALL
LARGE-S
LARGE-N

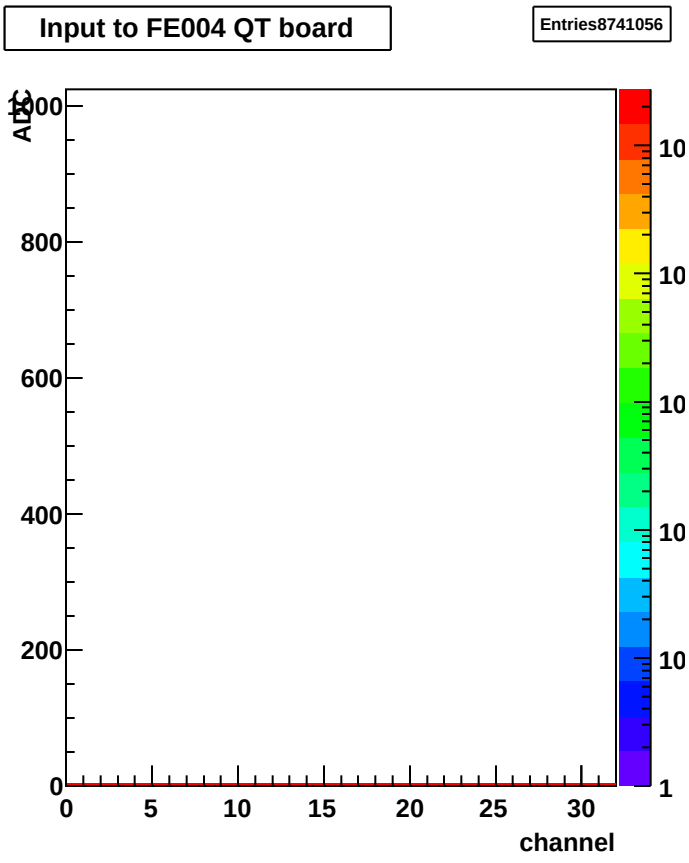

Input to FPD L2 DSM
Entries 819474
HT bits - simulated
272538
273158
273158
620
SMALL
LARGE-S
LARGE-N

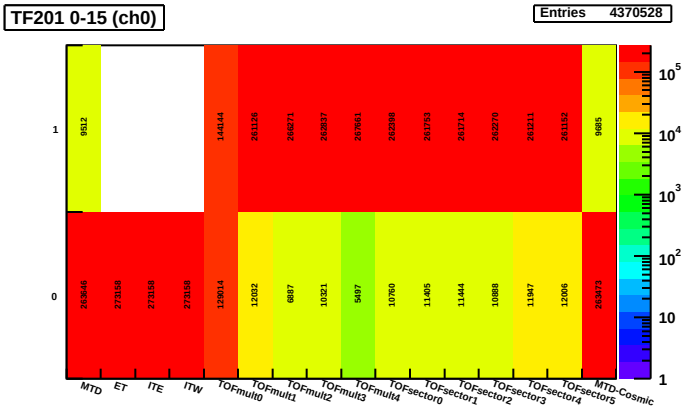

Input to FPD L2 DSM
Entries 1092632
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

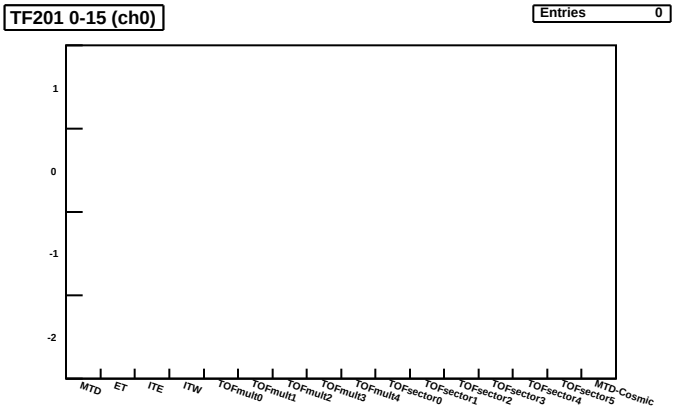

Input to FE001 QT board
Entries8741056
ADC
channel

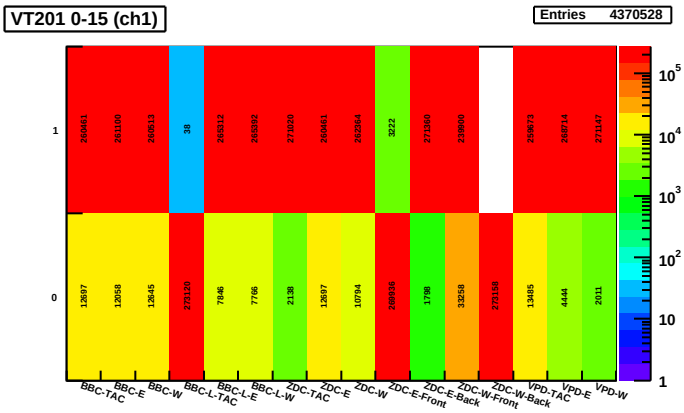

Input to FE002 QT board
Entries8741056
ADC
channel

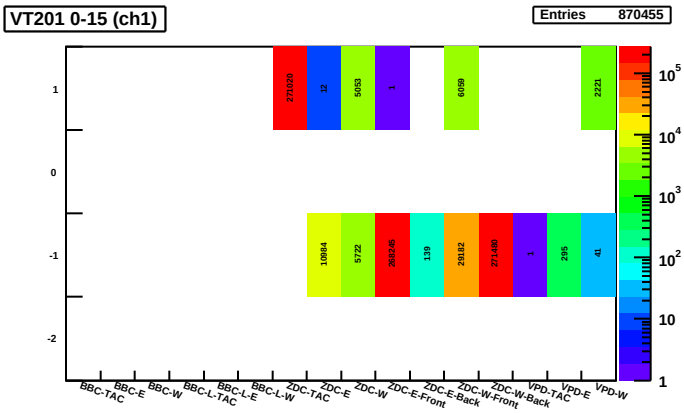

Input to FE003 QT board
Entries8741056
ADC
channel

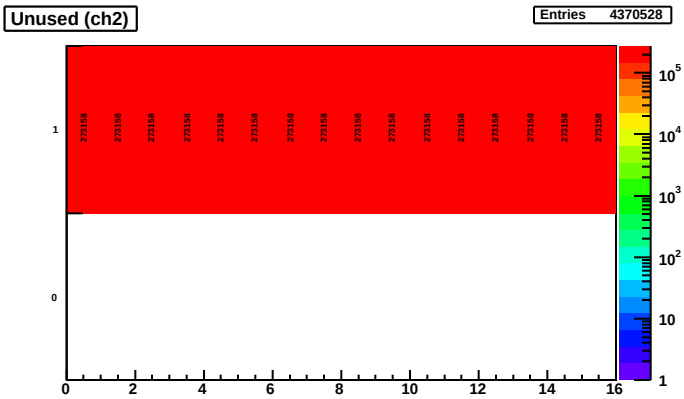

Input to FE004 QT board
Entries8741056
ADC
channel

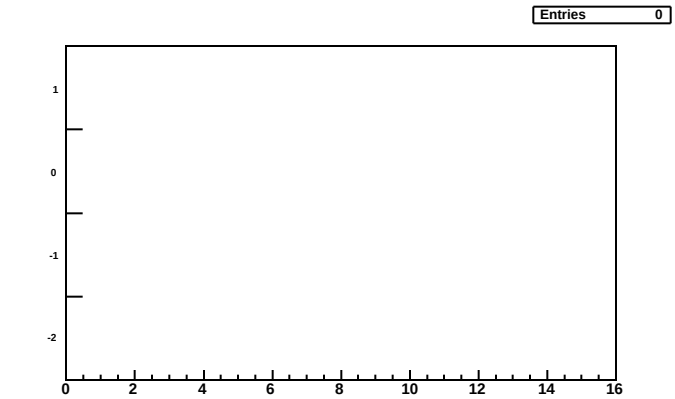

TF201 0-15 (ch0)
Entries 4370528
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

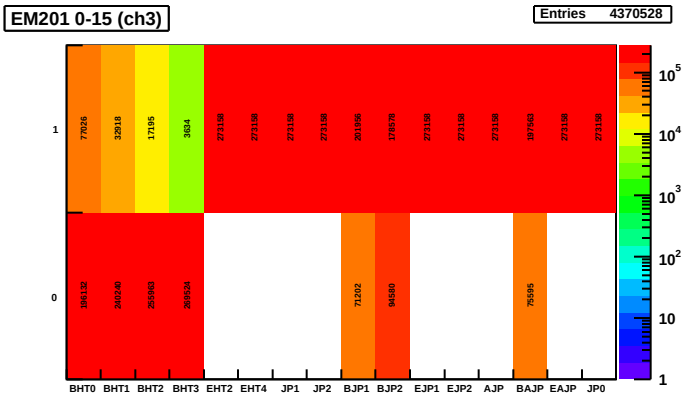

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

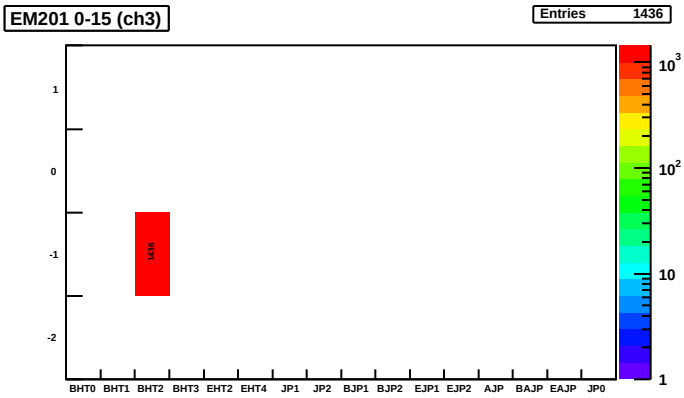

VT201 0-15 (ch1)
Entries 4370528
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 870455
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

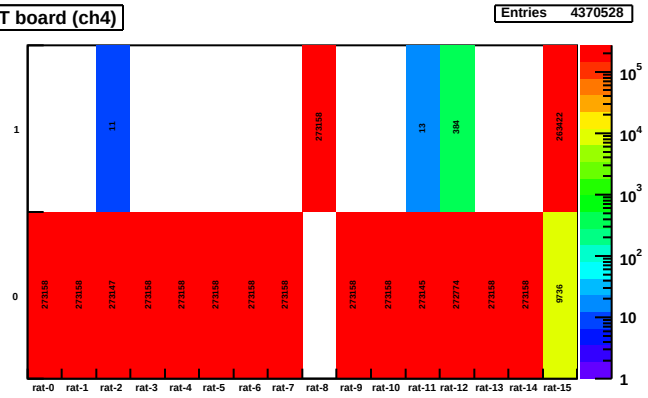

Unused (ch2)
Entries 4370528

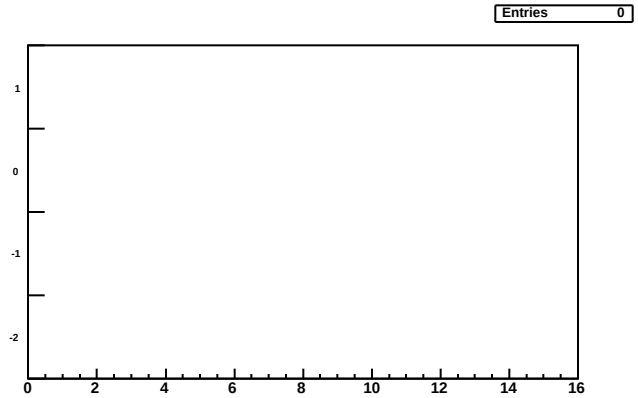

Entries 0


EM201 0-15 (ch3)
Entries 4370528
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

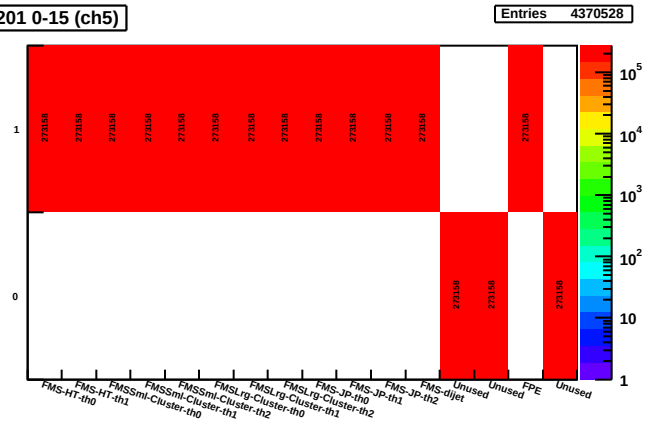

EM201 0-15 (ch3)
Entries 1436
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

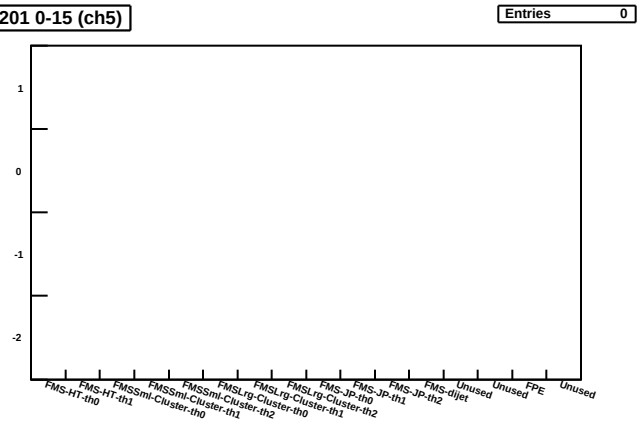




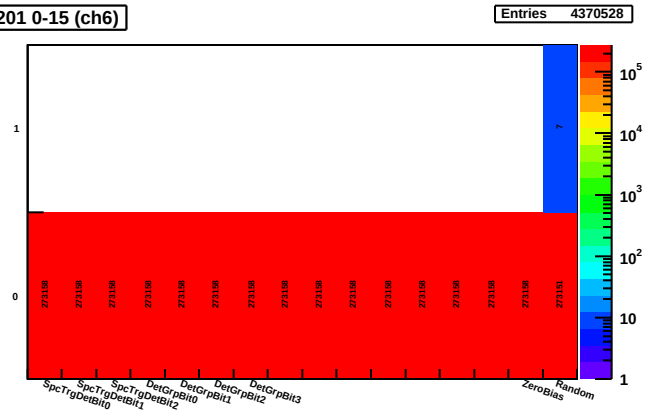
FP201 0-15 (ch5)

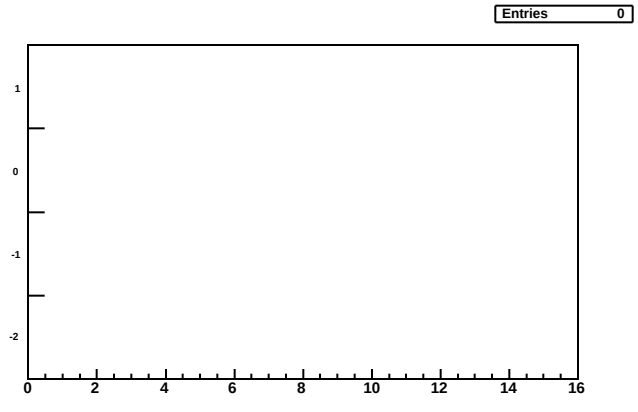
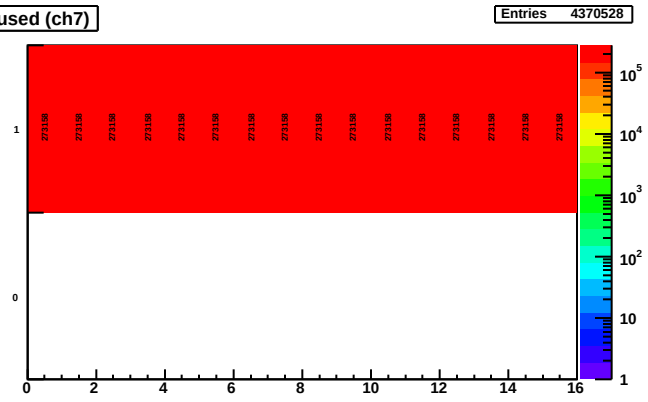
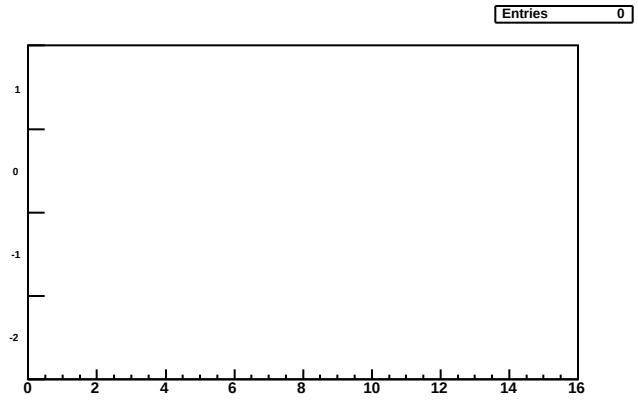


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)