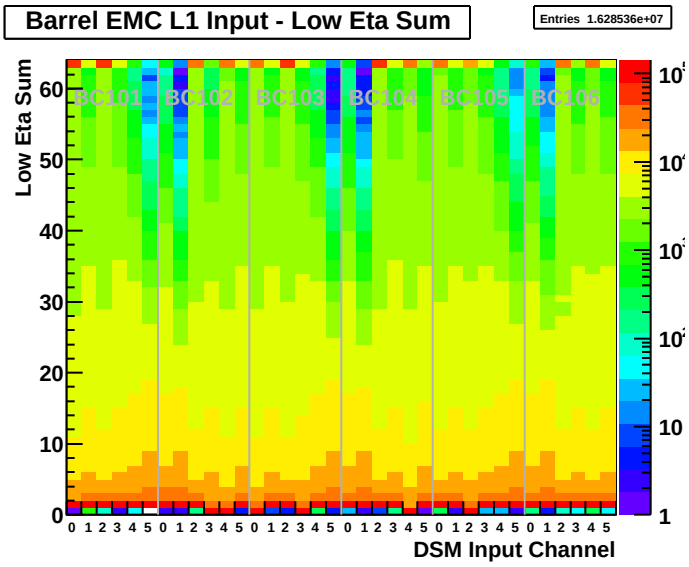
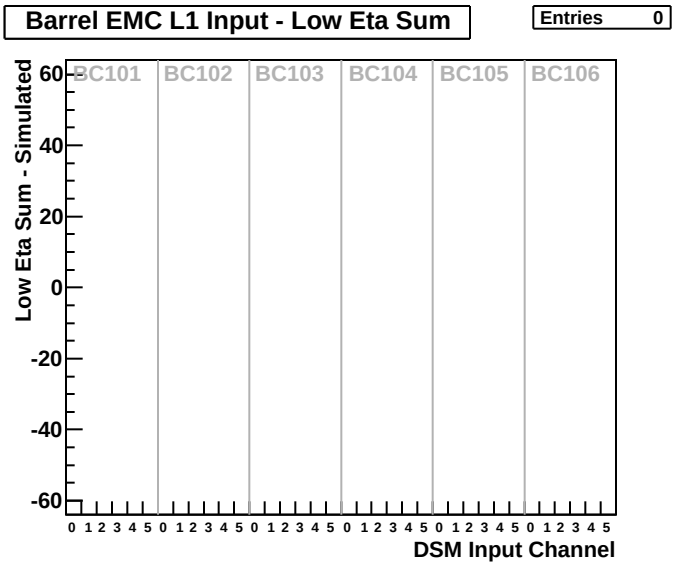
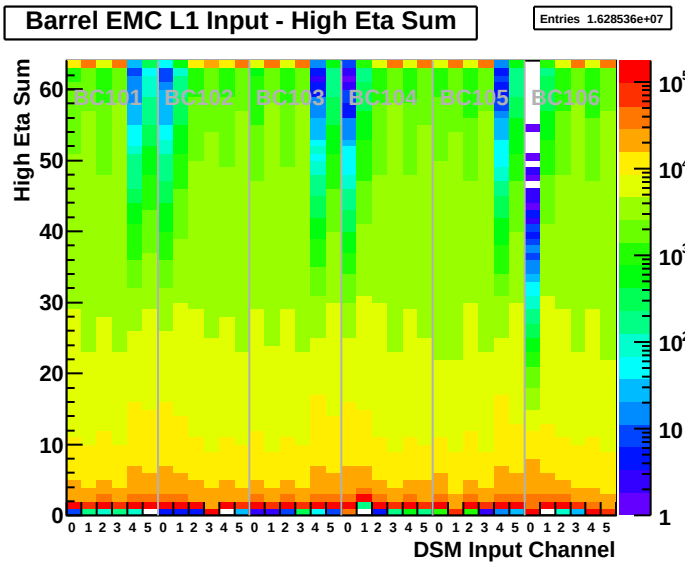
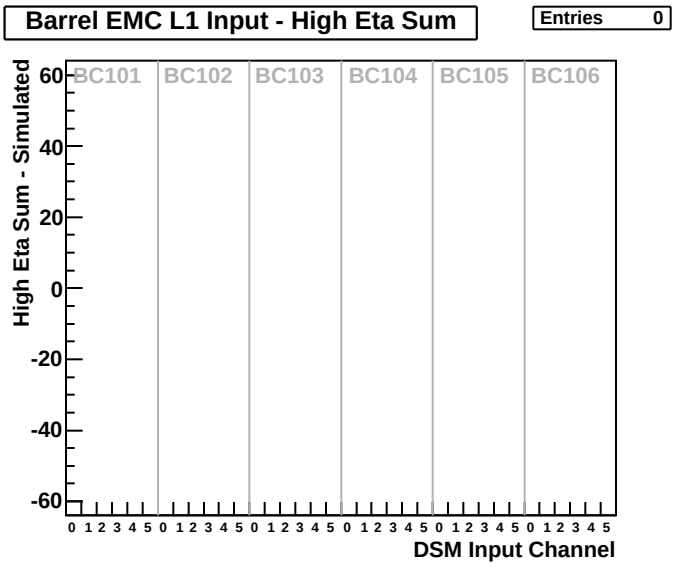
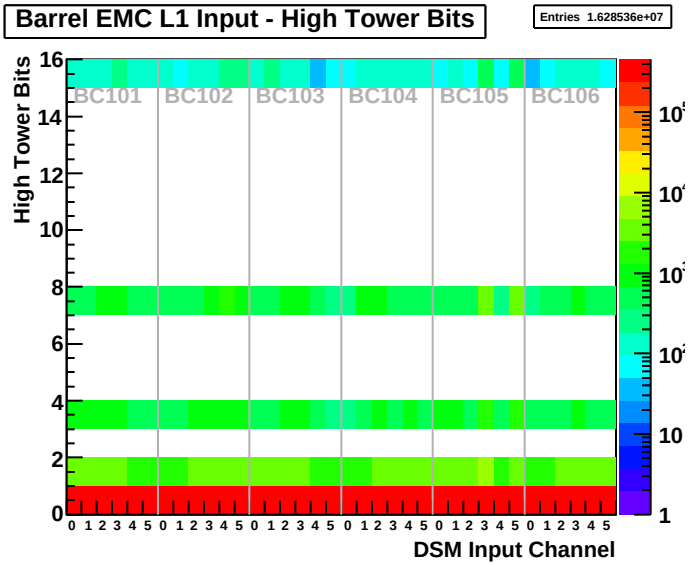
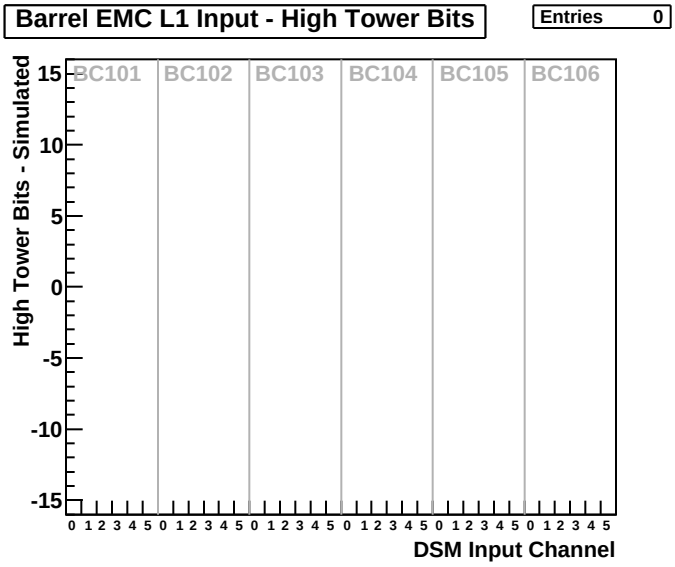

Barrel EMC L1 Input - Low Eta Sum
Entries 1.628536e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

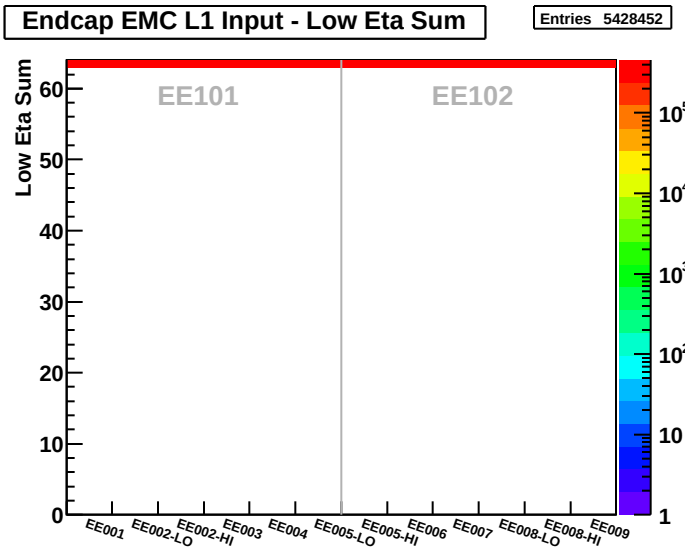

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

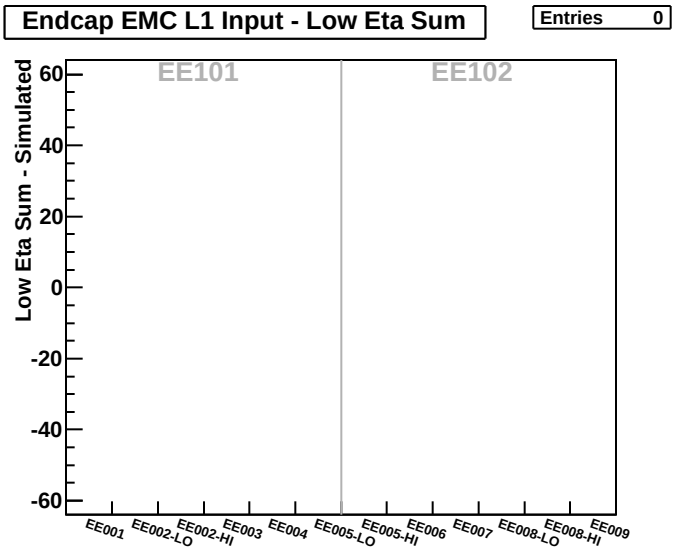

Barrel EMC L1 Input - High Eta Sum
Entries 1.628536e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

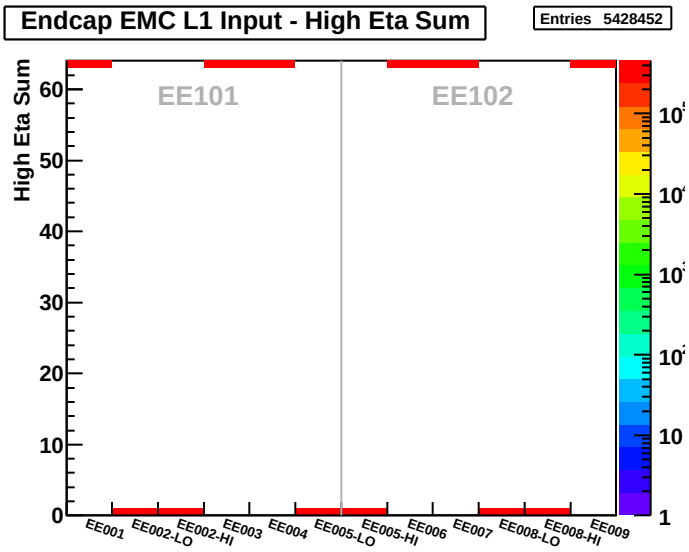

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

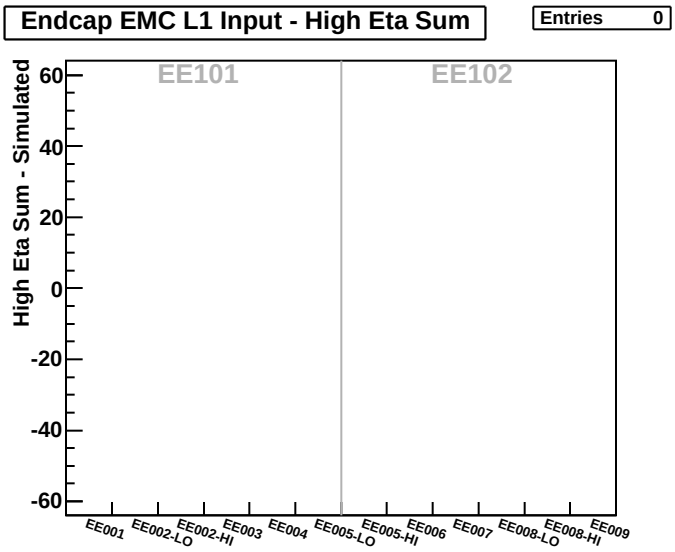

Barrel EMC L1 Input - High Tower Bits
Entries 1.628536e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

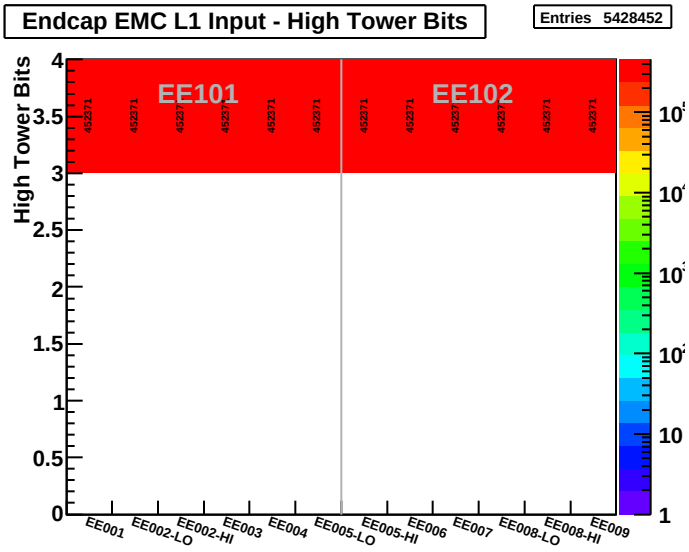

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

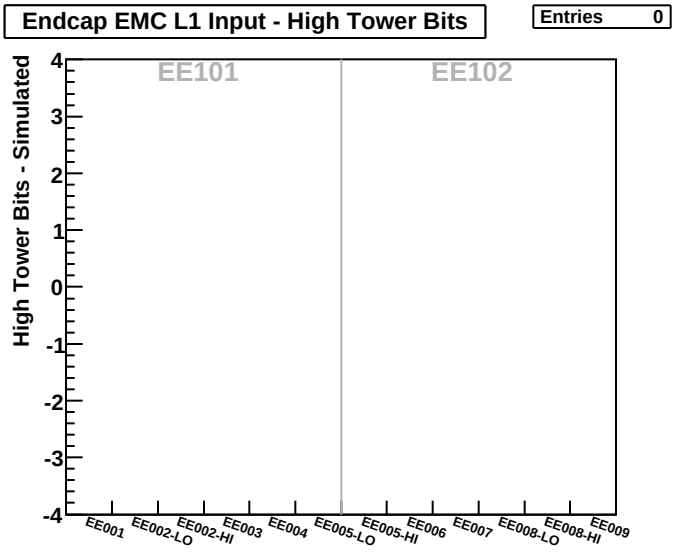

Endcap EMC L1 Input - Low Eta Sum
Entries 5428452
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

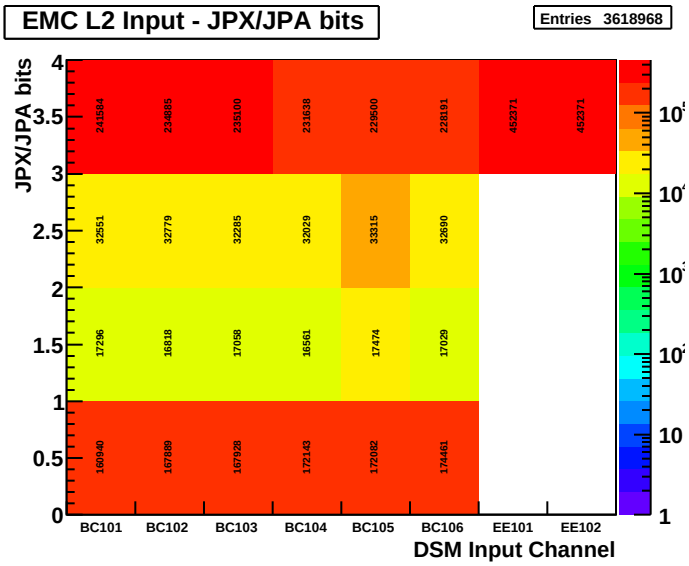

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

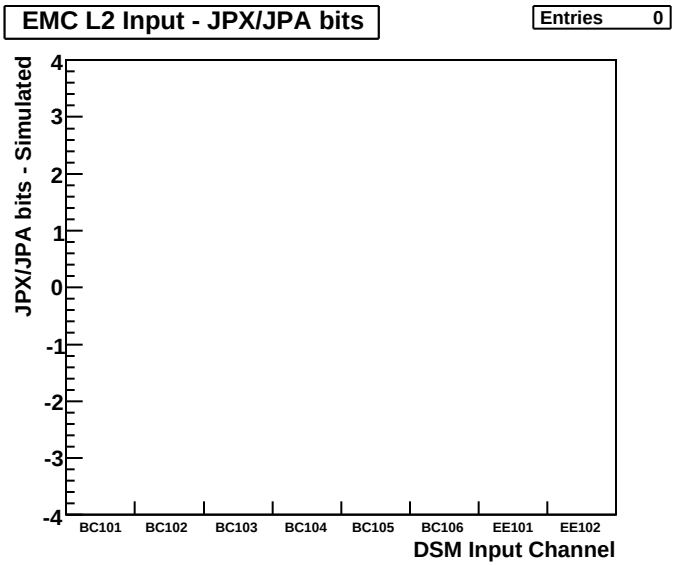

Endcap EMC L1 Input - High Eta Sum
Entries 5428452
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

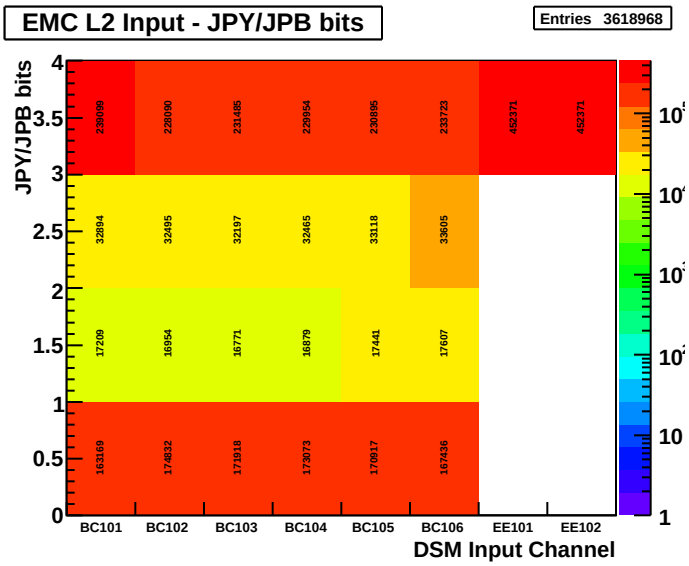

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

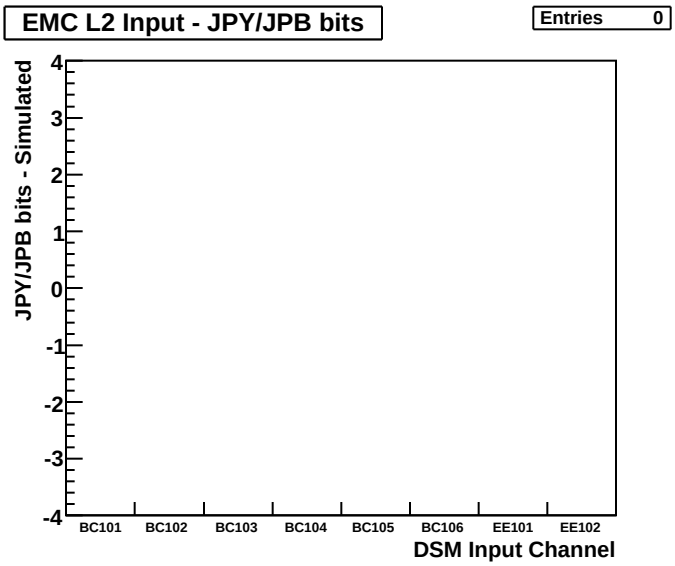

Endcap EMC L1 Input - High Tower Bits
Entries 5428452
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

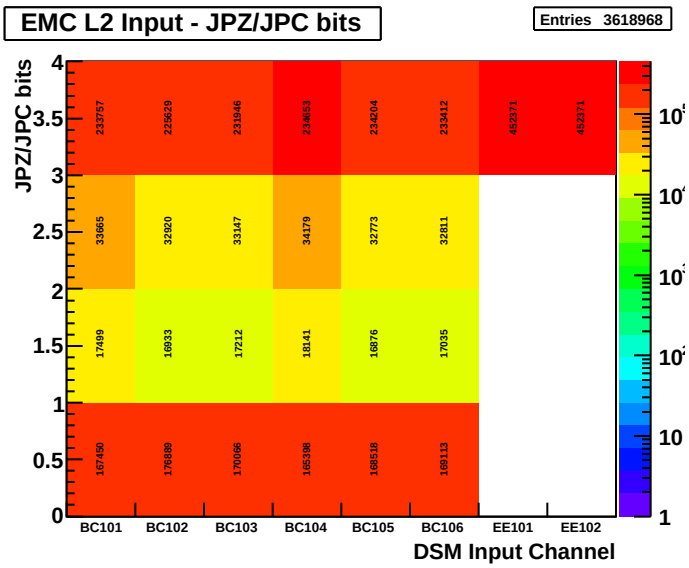

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

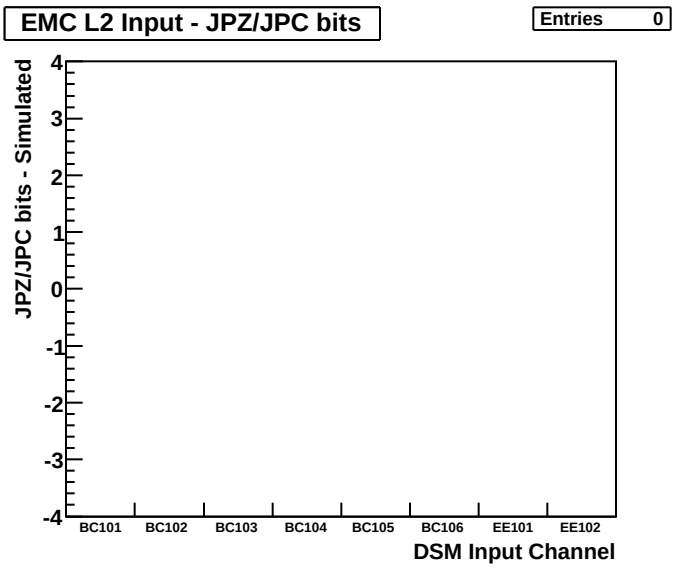

EMC L2 Input - JPX/JPA bits
Entries 3618968
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
241584 234685 235100 231638 229500 228191 452371 452371
32551 32779 32285 32029 33315 32690
17296 16818 17058 16561 17474 17029
160940 167889 167928 172143 172082 174461

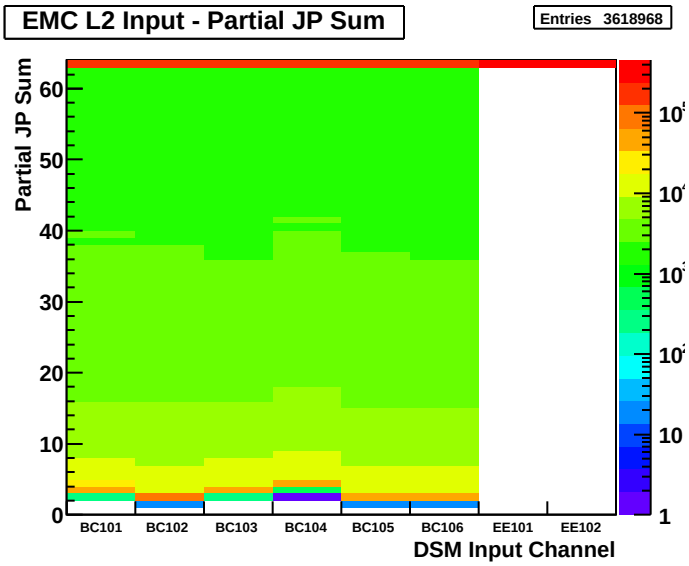

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

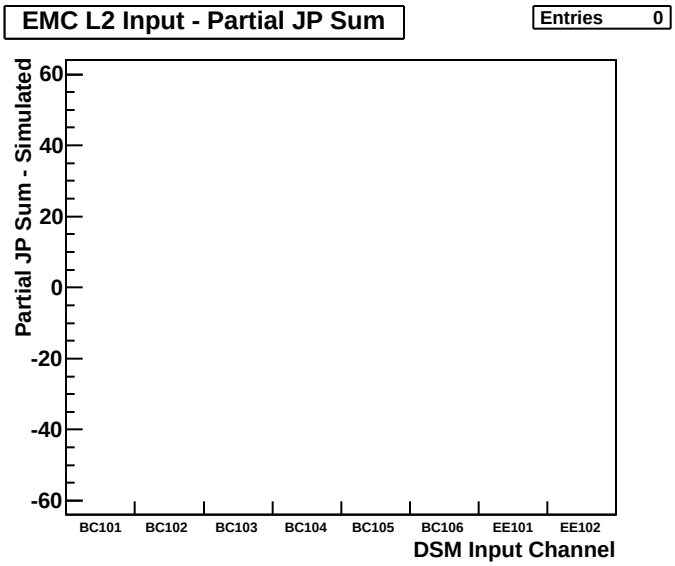

EMC L2 Input - JPY/JPB bits
Entries 3618968
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
228099 228080 231485 229954 230895 233723 452371 452371
32894 33495 32197 32465 33118 33605
17209 16954 16771 16879 17441 17607
163169 174832 171918 173073 170917 167436

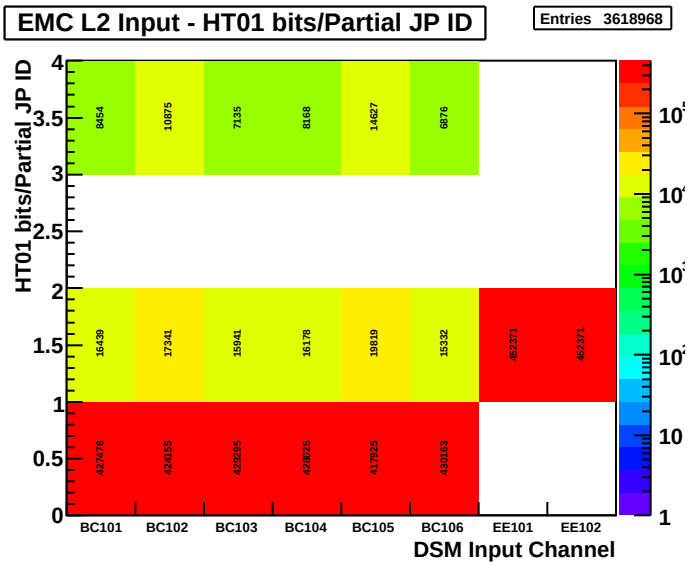

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

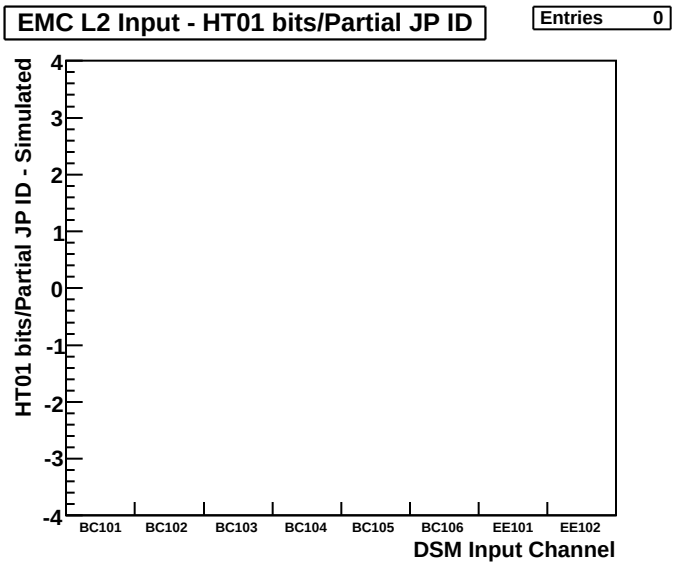

EMC L2 Input - JPZ/JPC bits
Entries 3618968
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
237757 225629 231946 236653 234204 233412 452371 452371
33665 32920 33147 34179 32773 32811
17499 16933 17212 18141 16876 17035
167450 176889 170066 165398 168518 169113

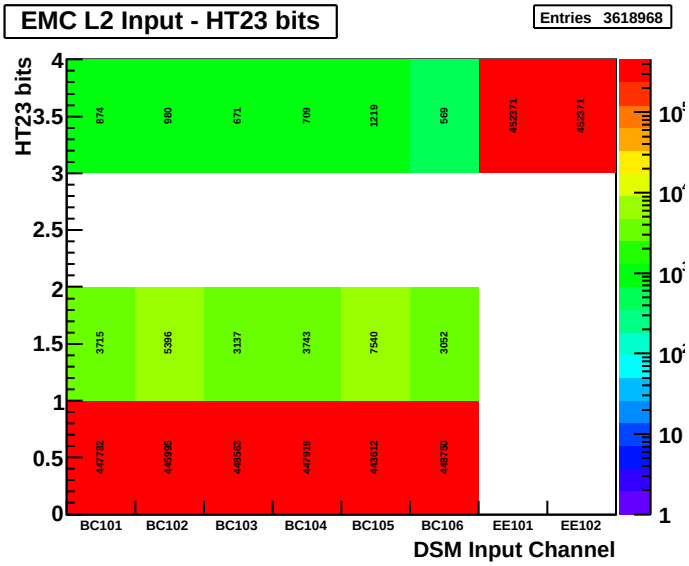

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

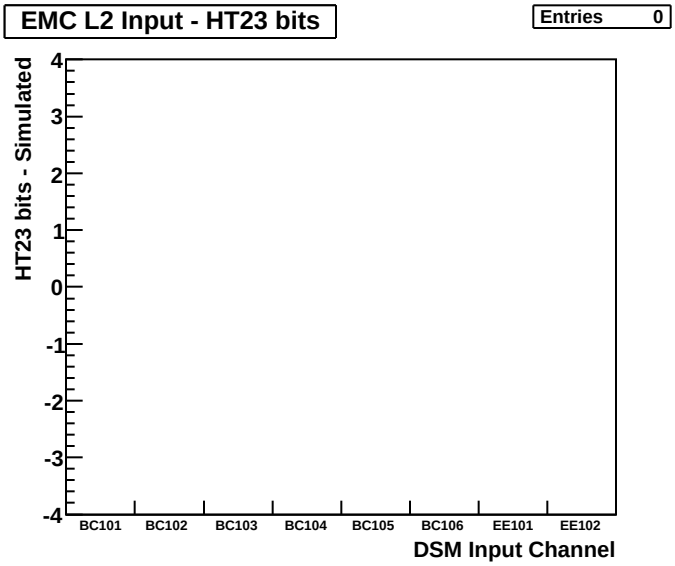

EMC L2 Input - Partial JP Sum
Entries 3618968
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

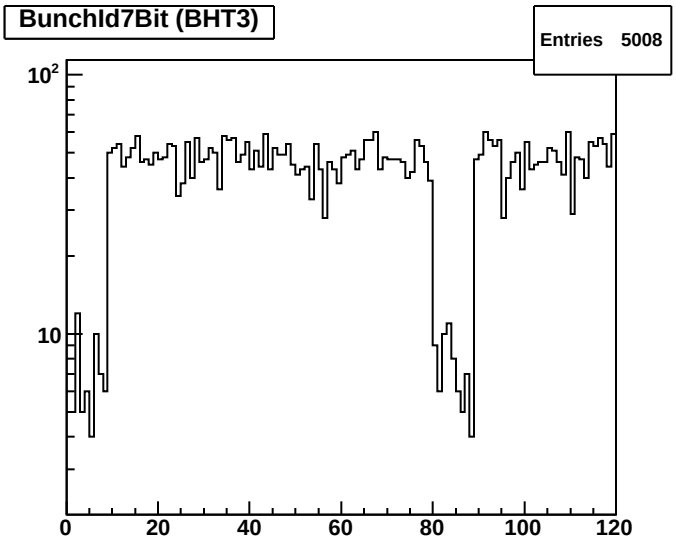

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

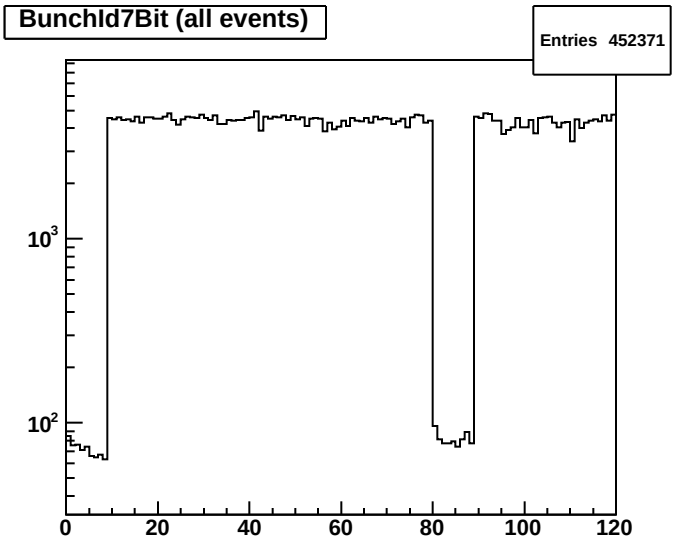

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3618968
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

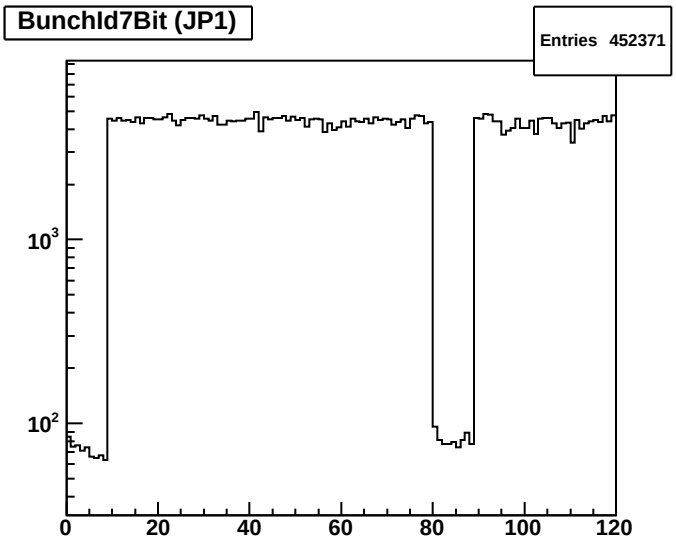

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

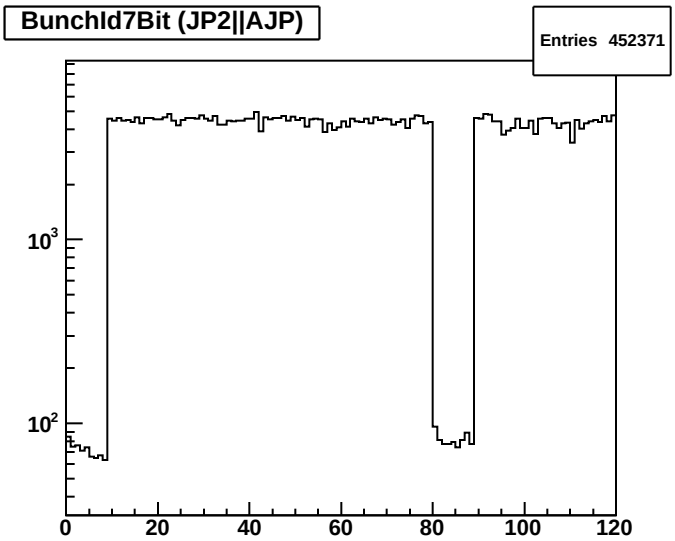

EMC L2 Input - HT23 bits
Entries 3618968
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

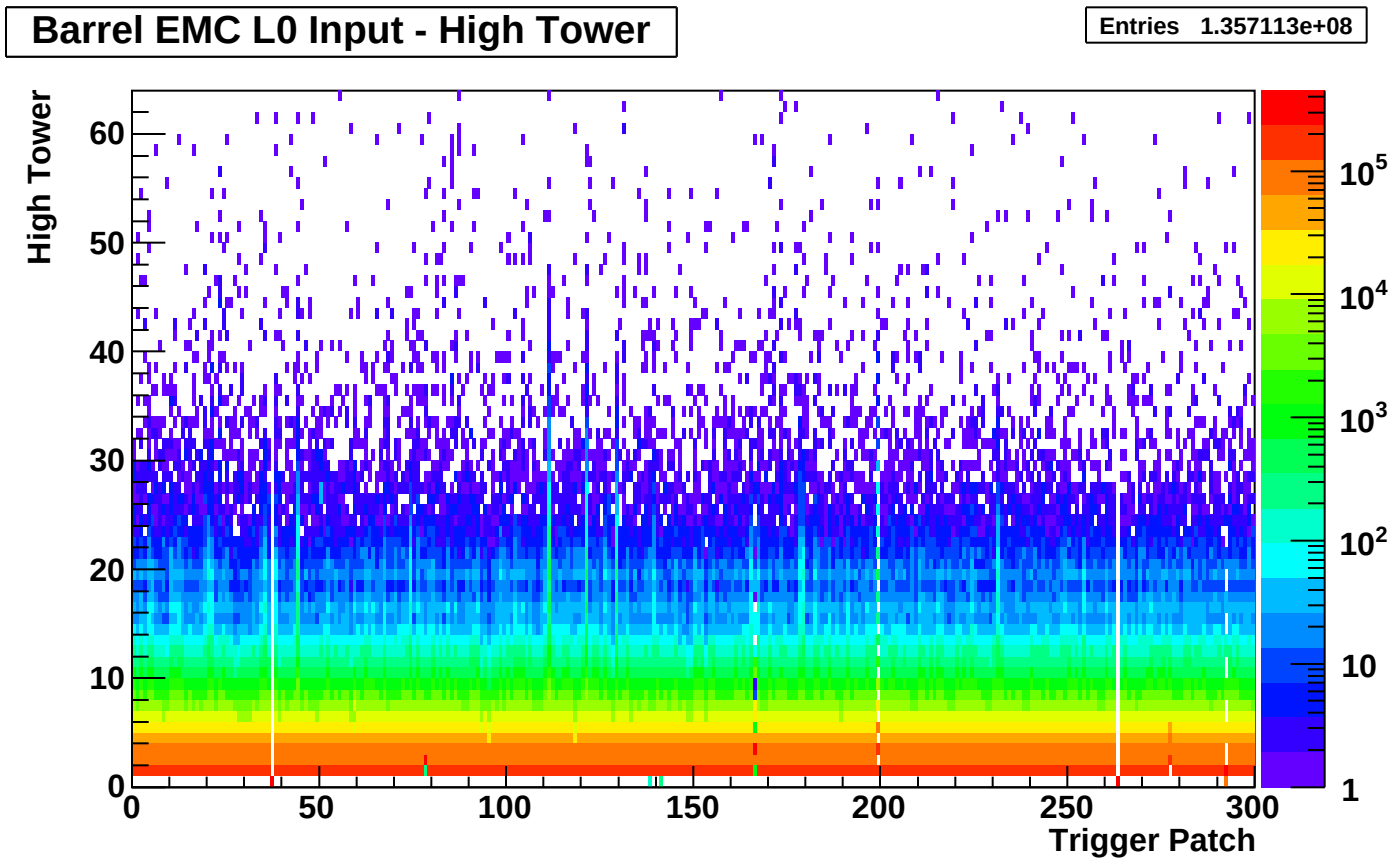

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

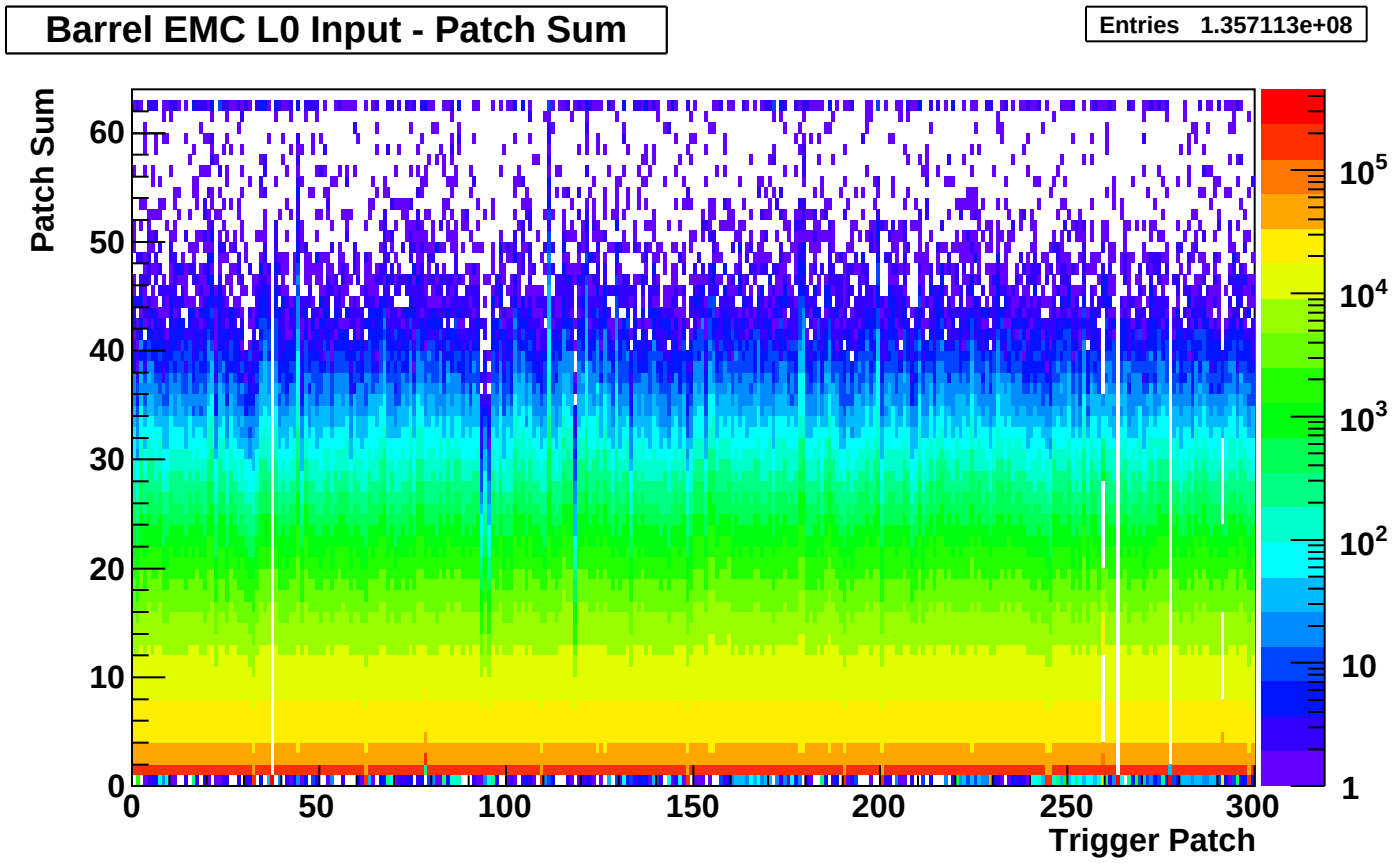

BunchId7Bit (BHT3)
Entries 5008
10^2
10
0
20
40
60
80
100
120

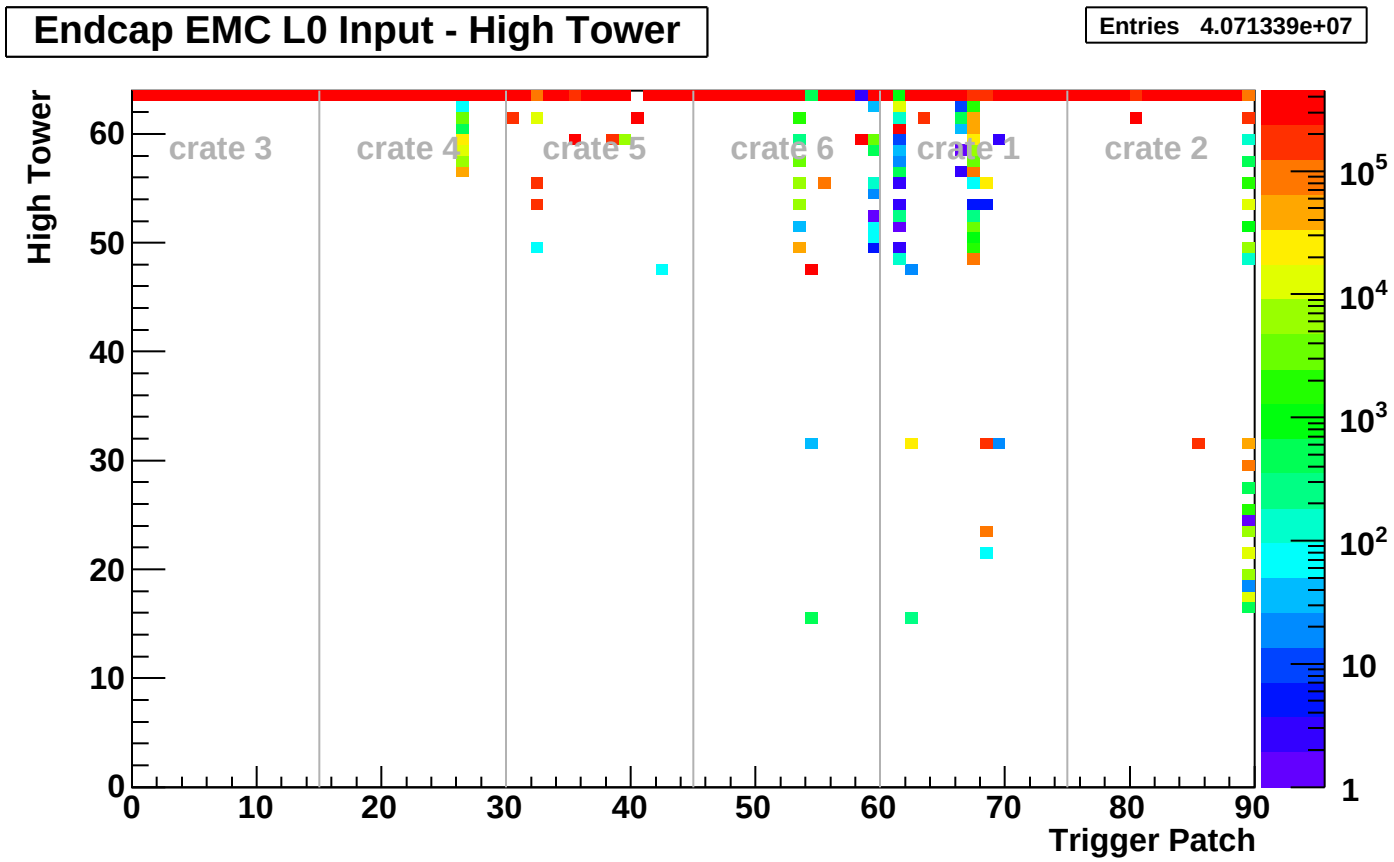

BunchId7Bit (all events)
Entries 452371
10^3
10^2
0
20
40
60
80
100
120

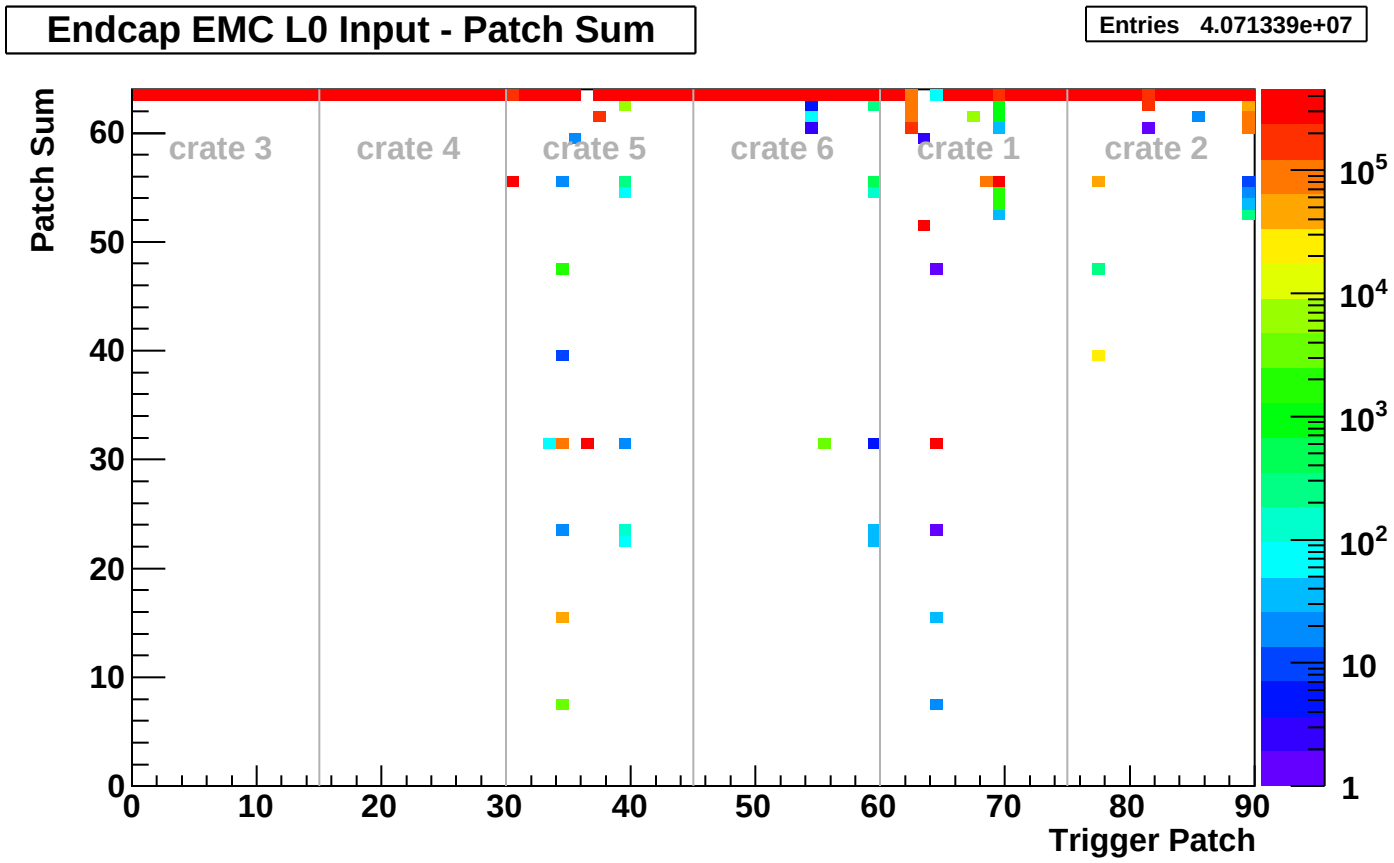

BunchId7Bit (JP1)
Entries 452371
10^3
10^2
0
20
40
60
80
100
120

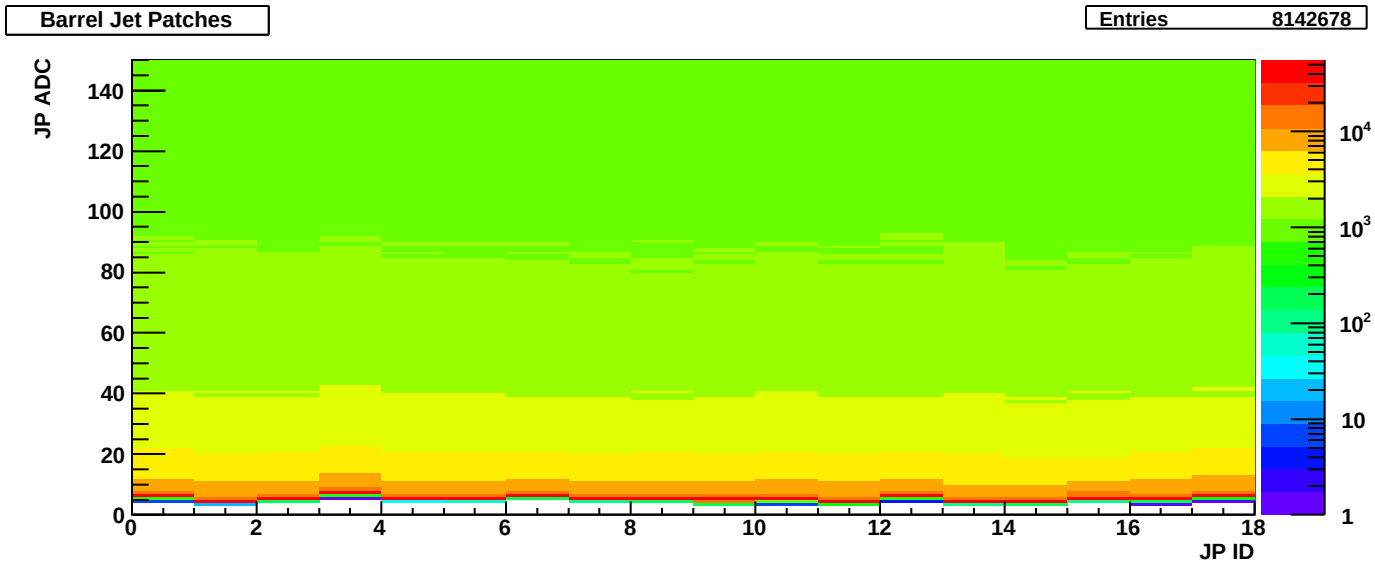

BunchId7Bit (JP2||AJP)
Entries 452371
10^3
10^2
0
20
40
60
80
100
120

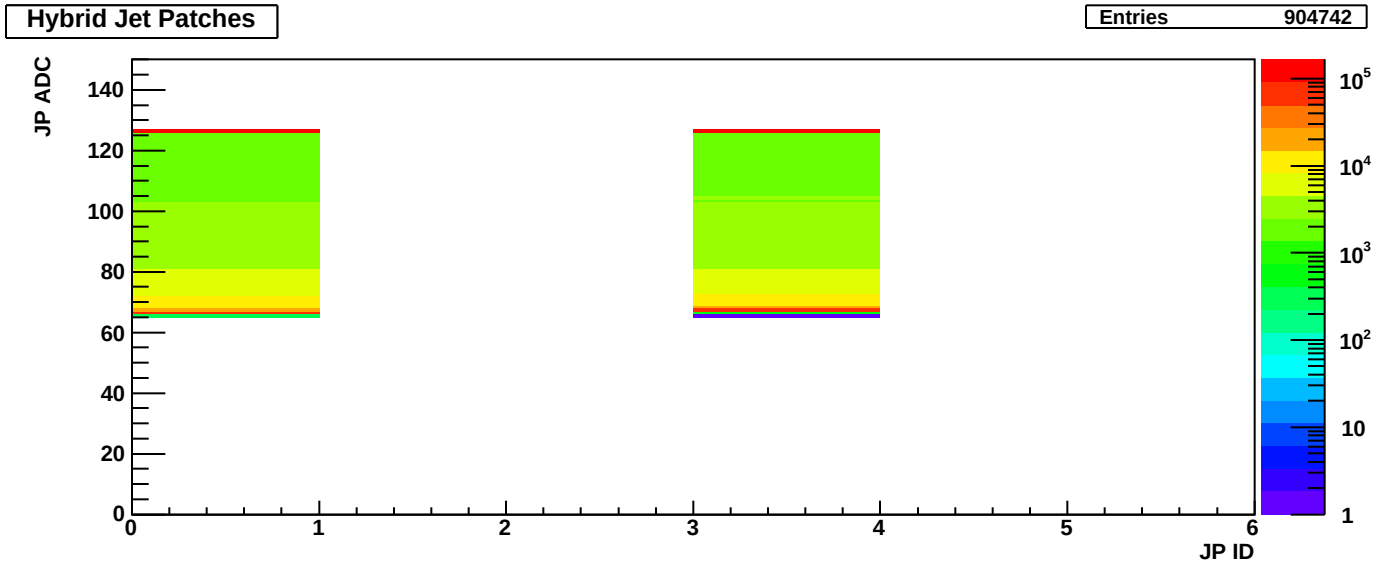

Barrel EMC L0 Input - High Tower
Entries 1.357113e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

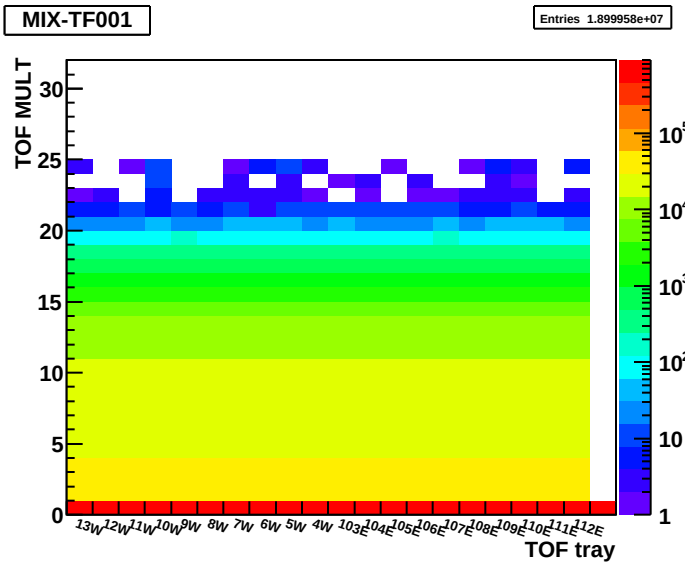

Barrel EMC L0 Input - Patch Sum
Entries 1.357113e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

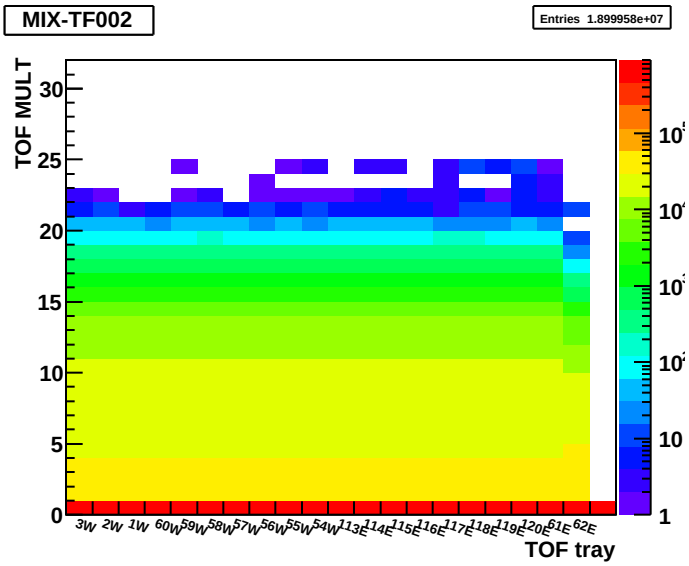

Endcap EMC L0 Input - High Tower
Entries 4.071339e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

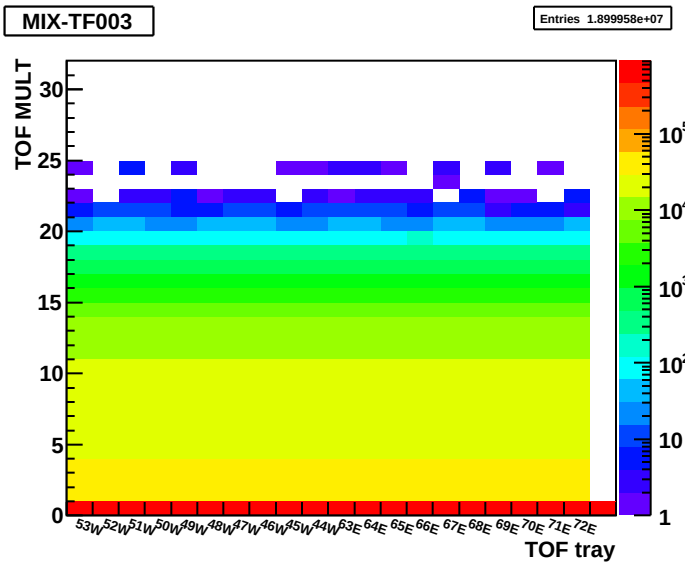

Endcap EMC L0 Input - Patch Sum
Entries 4.071339e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

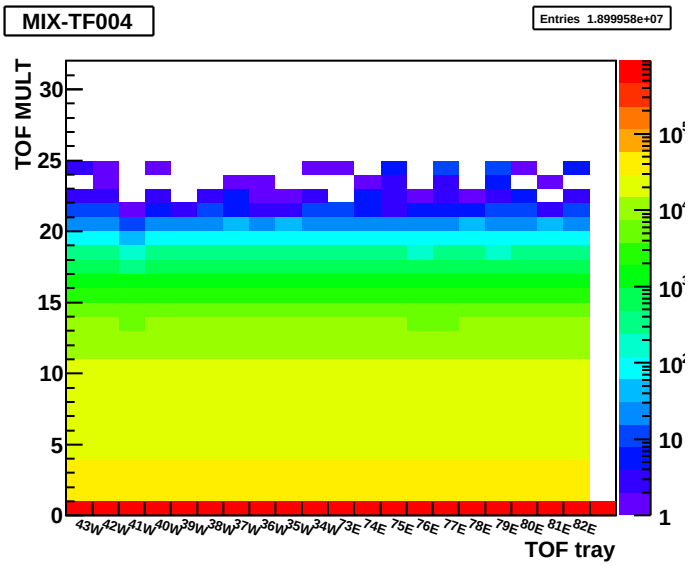

Barrel Jet Patches
Entries 8142678
JP ADC
JP ID

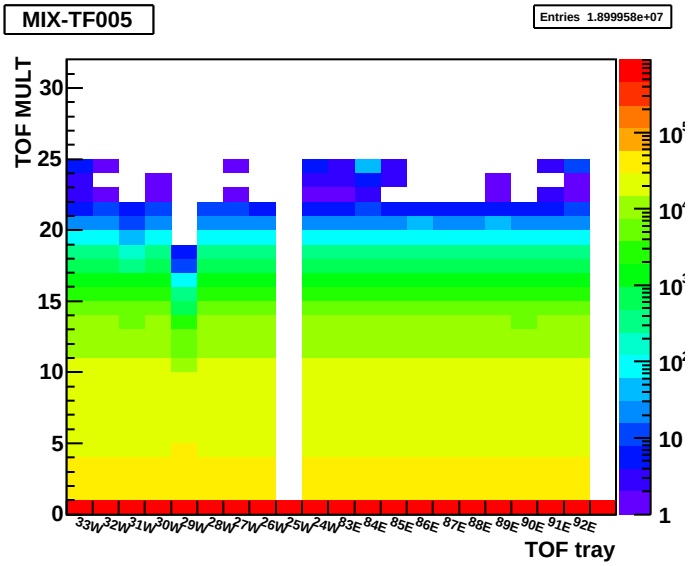

Hybrid Jet Patches
Entries 904742
JP ADC
JP ID

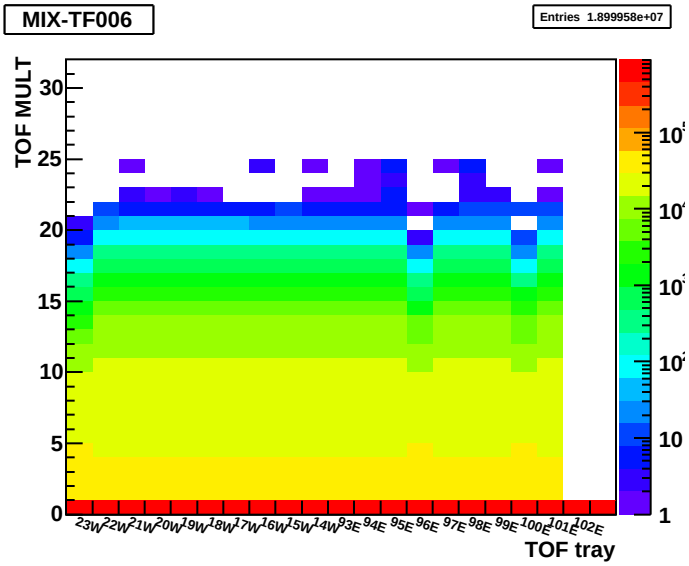

MIX-TF001
Entries 1.899958e+07
TOF MULT
TOF tray

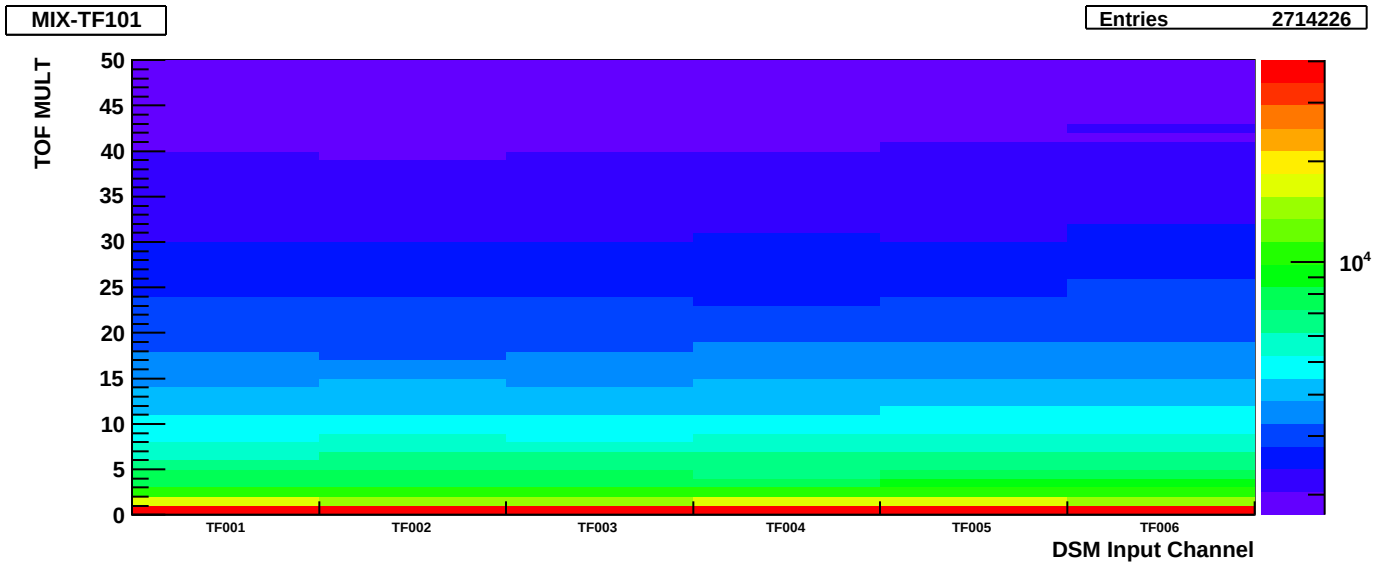

MIX-TF002
Entries 1.899958e+07
TOF MULT
TOF tray

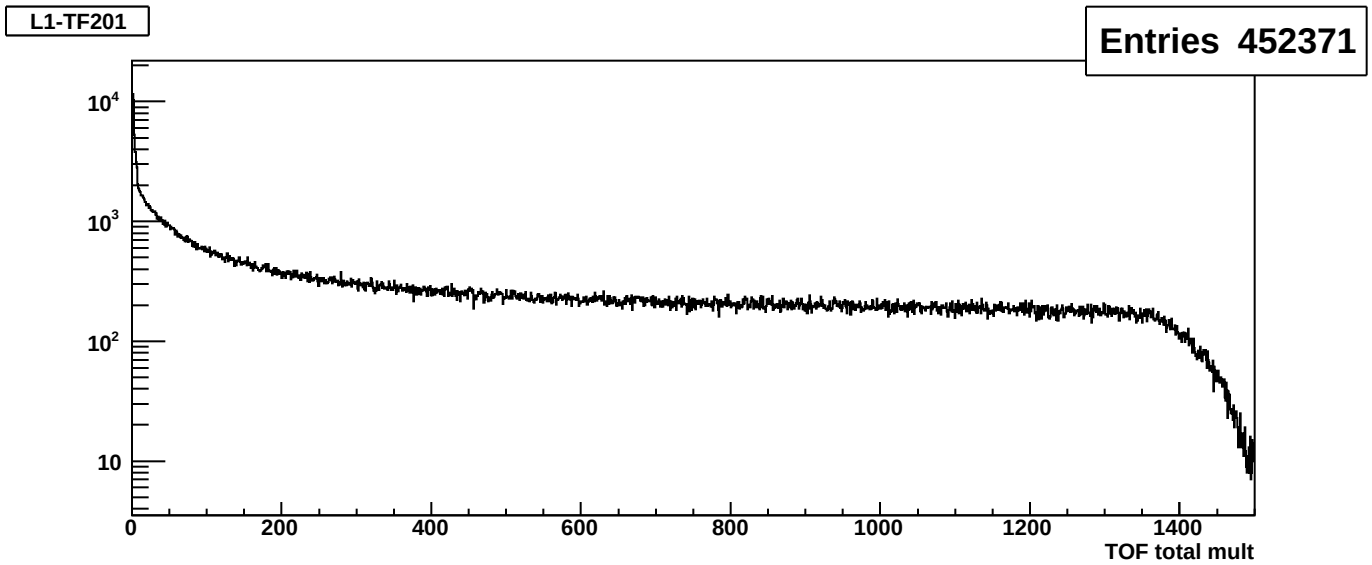

MIX-TF003
Entries 1.899958e+07
TOF MULT
TOF tray

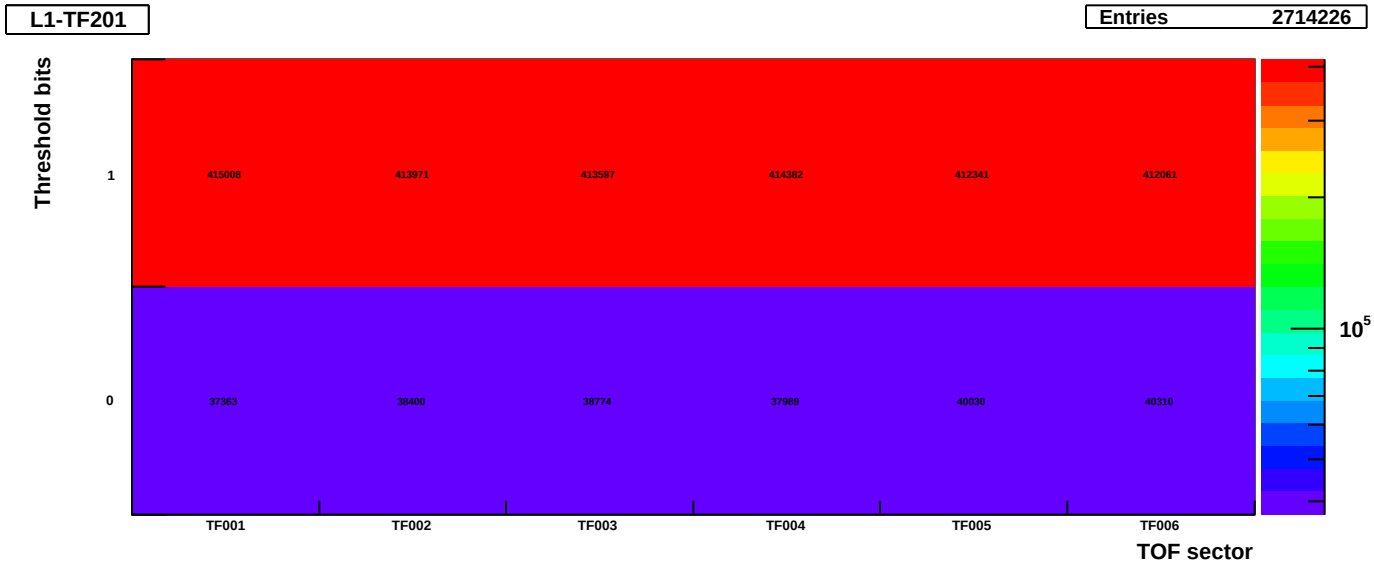

MIX-TF004
Entries 1.899958e+07
TOF MULT
TOF tray

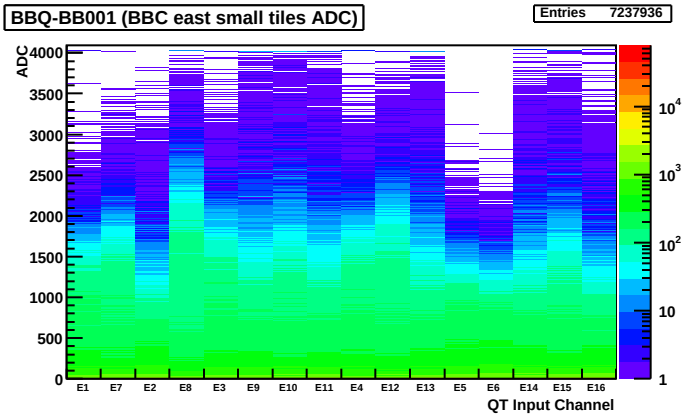

MIX-TF005
Entries 1.899958e+07
TOF MULT
TOF tray

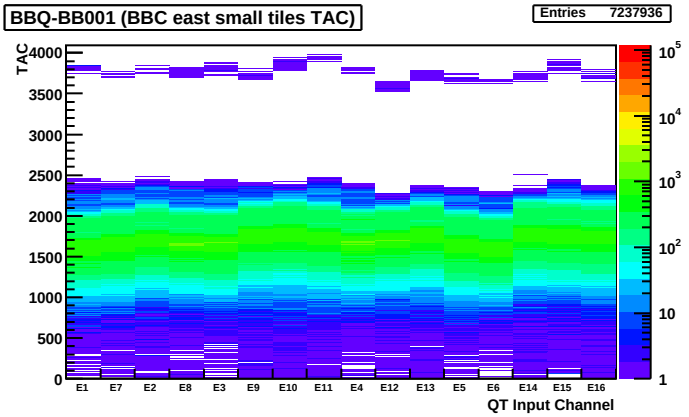

MIX-TF006
Entries 1.899958e+07
TOF MULT
TOF tray

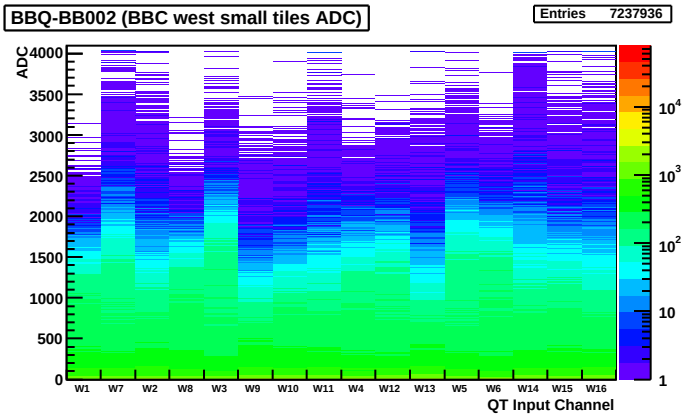

MIX-TF101
Entries 2714226
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

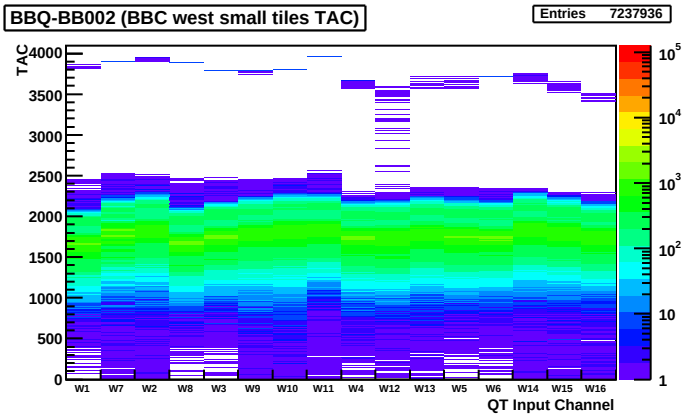

L1-TF201
Entries 452371
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

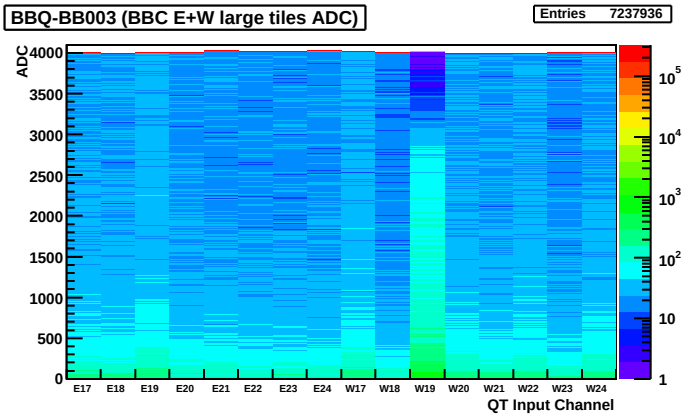

L1-TF201
Entries 2714226
Threshold bits
1
0
415008
413971
413597
414382
412341
412061
37363
38400
38774
37989
40030
40310
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

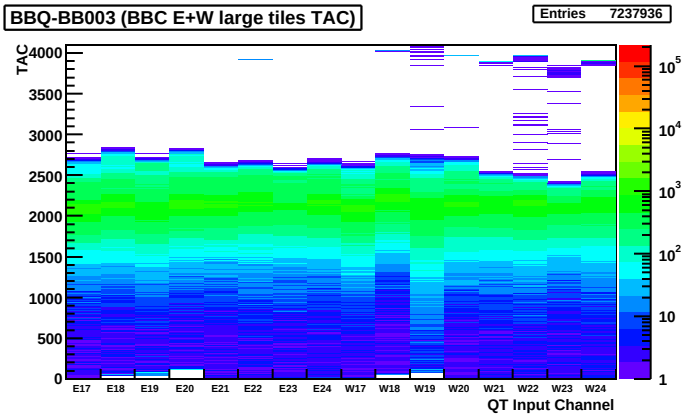

BBQ-BB001 (BBC east small tiles ADC)
Entries 7237936
ADC
QT Input Channel

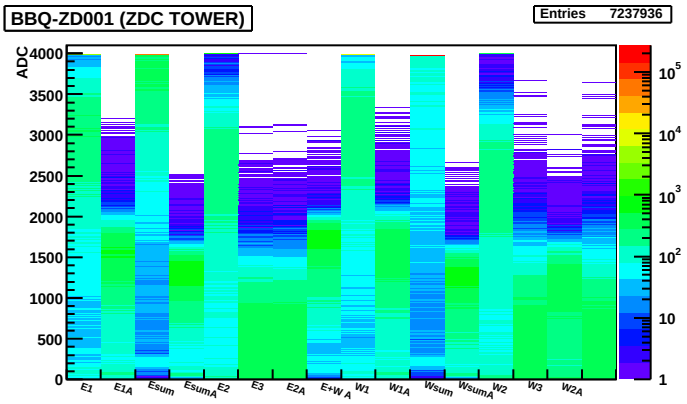

BBQ-BB001 (BBC east small tiles TAC)
Entries 7237936
TAC
QT Input Channel

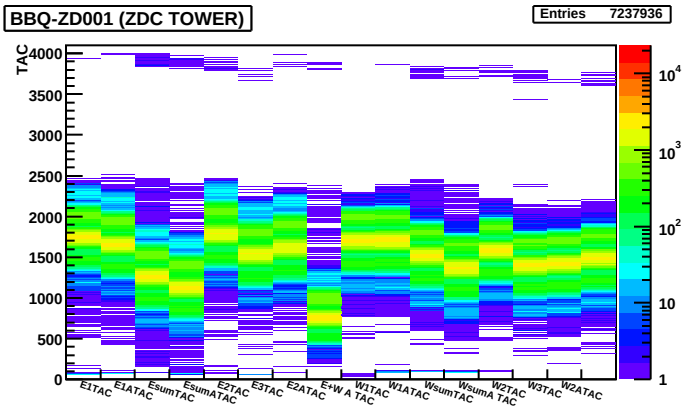

BBQ-BB002 (BBC west small tiles ADC)
Entries 7237936
ADC
QT Input Channel

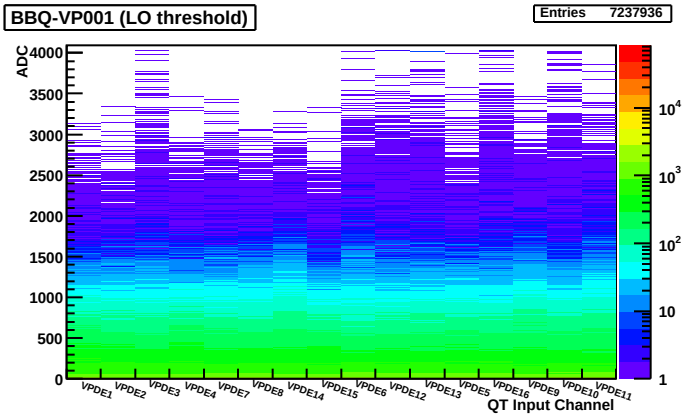

BBQ-BB002 (BBC west small tiles TAC)
Entries 7237936
TAC
QT Input Channel

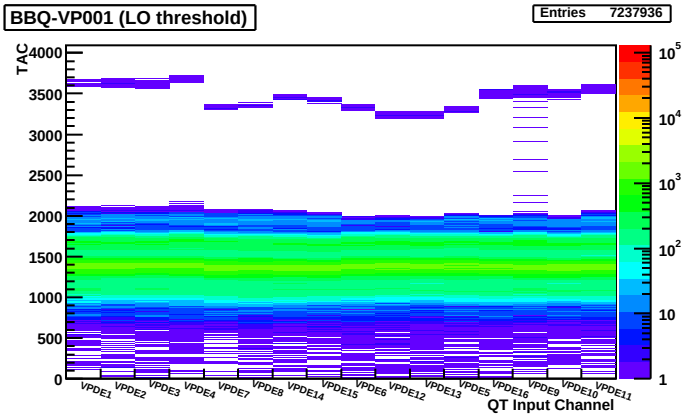

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7237936
ADC
QT Input Channel

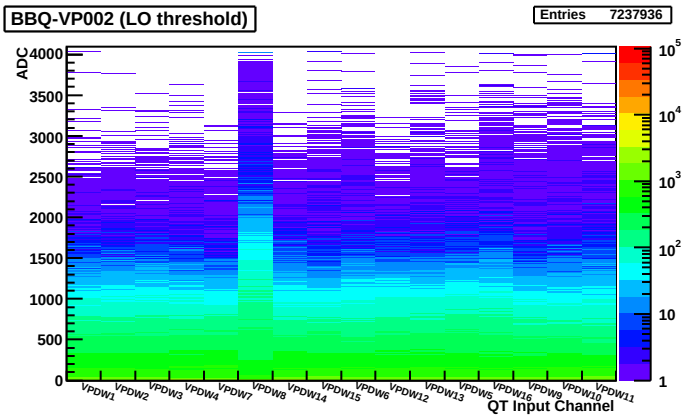

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7237936
TAC
QT Input Channel

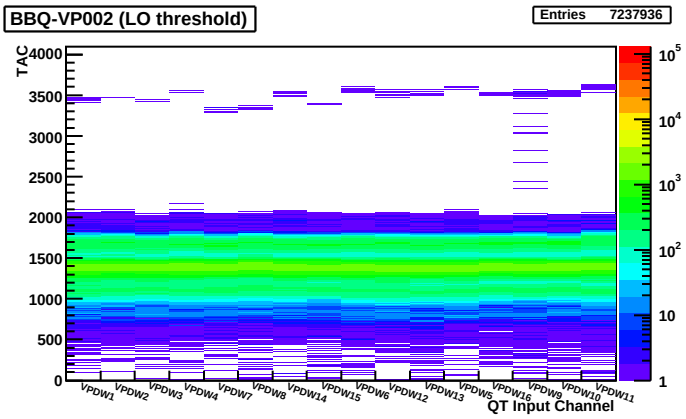

BBQ-ZD001 (ZDC TOWER)
Entries 7237936
ADC

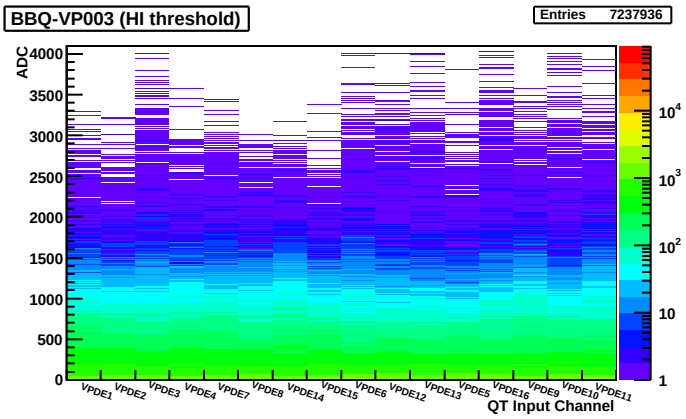

BBQ-ZD001 (ZDC TOWER)
Entries 7237936
TAC

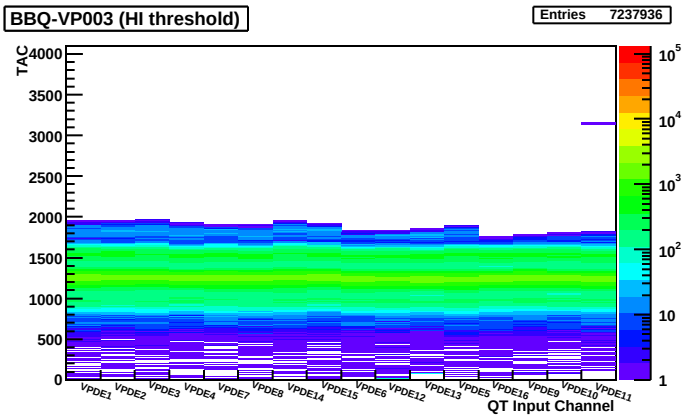

BBQ-VP001 (LO threshold)
Entries 7237936
ADC
QT Input Channel

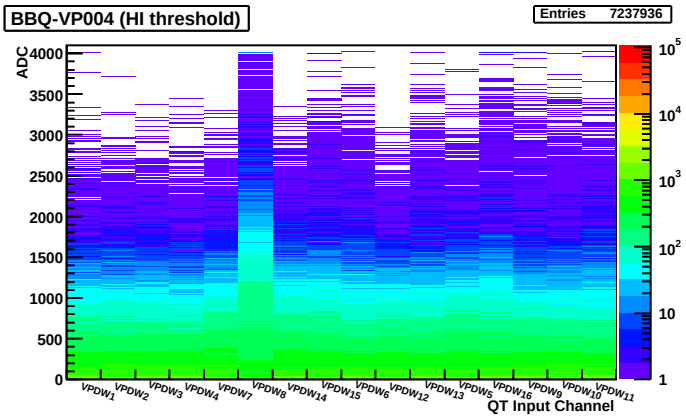

BBQ-VP001 (LO threshold)
Entries 7237936
TAC
QT Input Channel

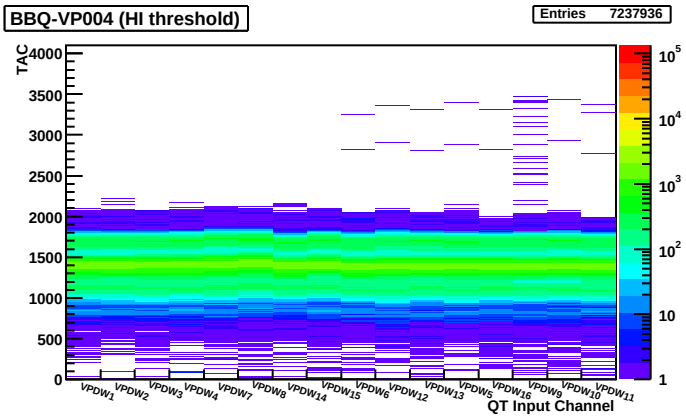

BBQ-VP002 (LO threshold)
Entries 7237936
ADC
QT Input Channel

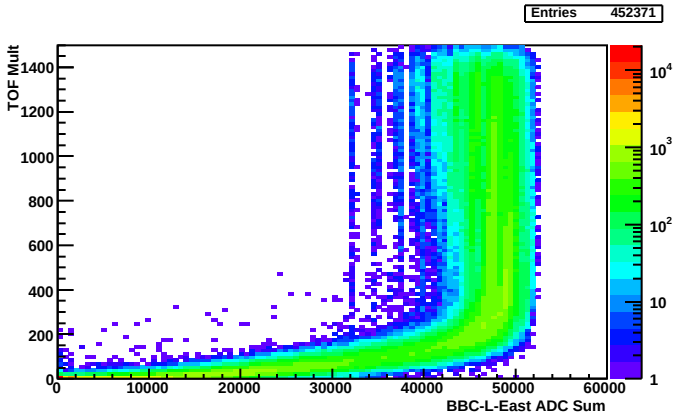

BBQ-VP002 (LO threshold)
Entries 7237936
TAC
QT Input Channel

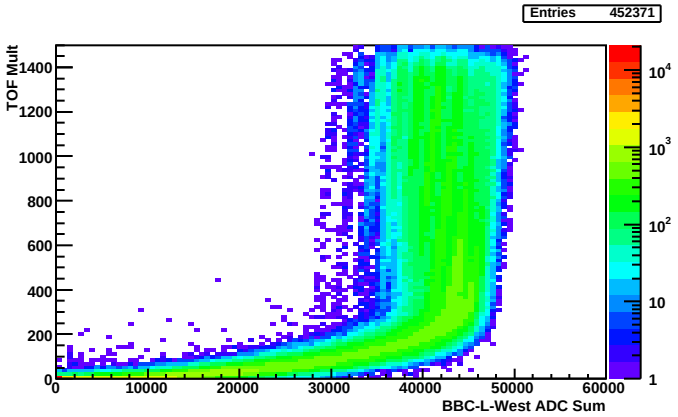

BBQ-VP003 (HI threshold)
Entries 7237936
ADC
QT Input Channel

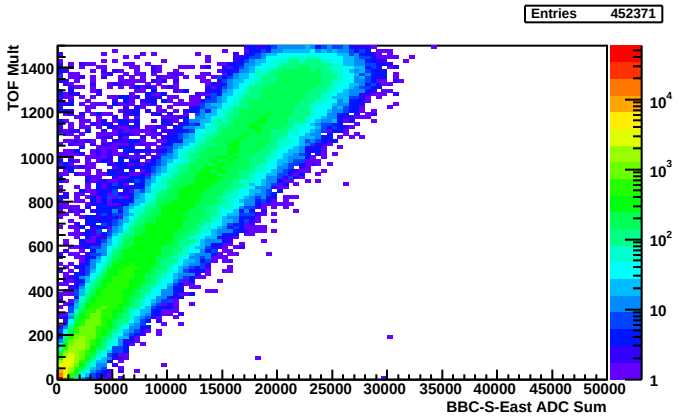

BBQ-VP003 (HI threshold)
Entries 7237936
TAC
QT Input Channel

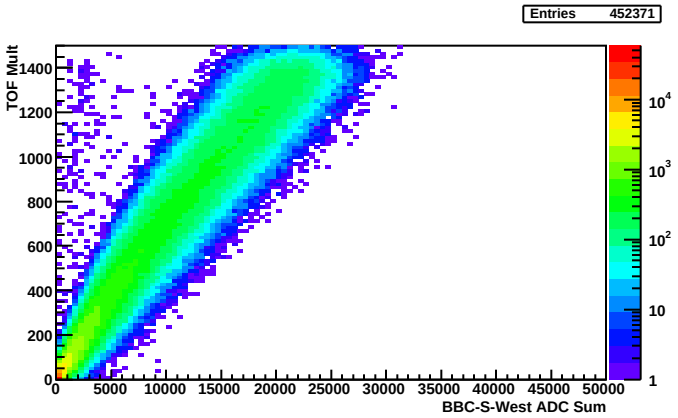

BBQ-VP004 (HI threshold)
Entries 7237936
ADC
QT Input Channel

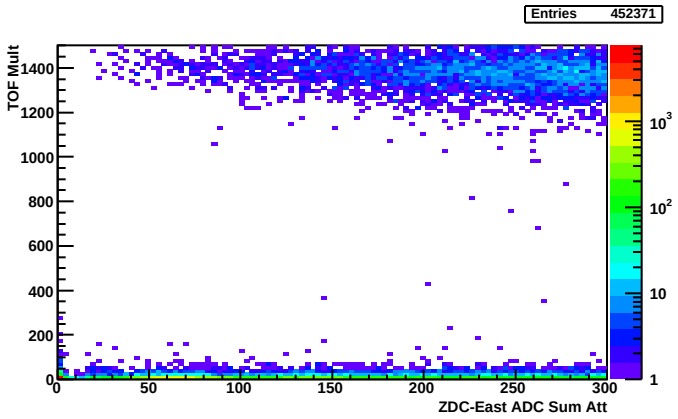

BBQ-VP004 (HI threshold)
Entries 7237936
TAC
QT Input Channel

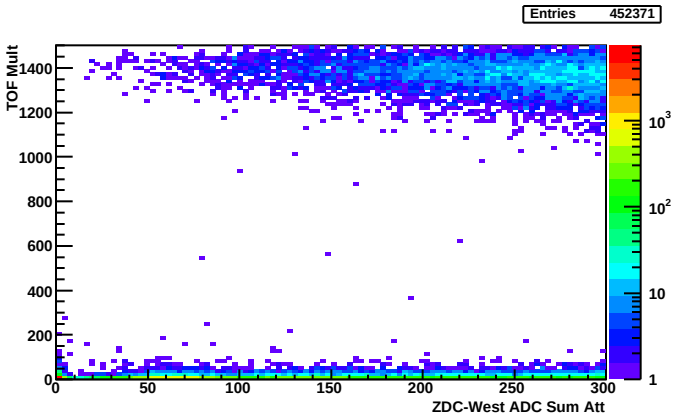

Entries 452371
TOF Mult
BBC-L-East ADC Sum

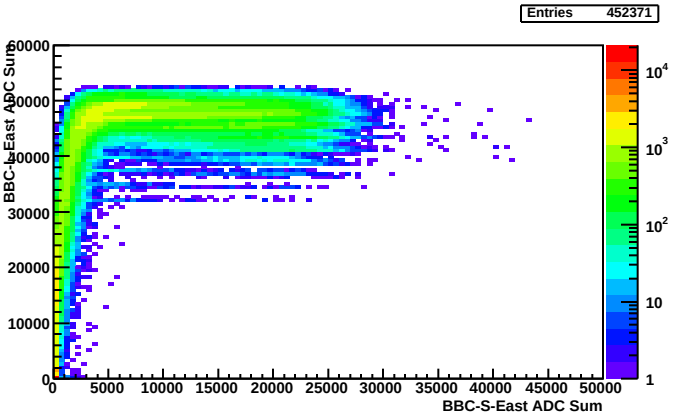

Entries 452371
TOF Mult
BBC-L-West ADC Sum

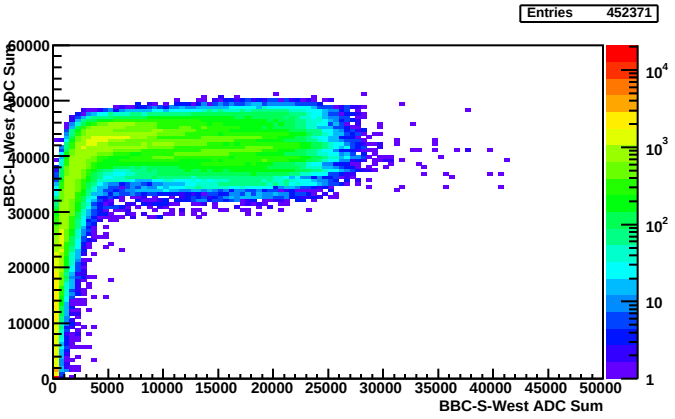

Entries 452371
TOF Mult
BBC-S-East ADC Sum

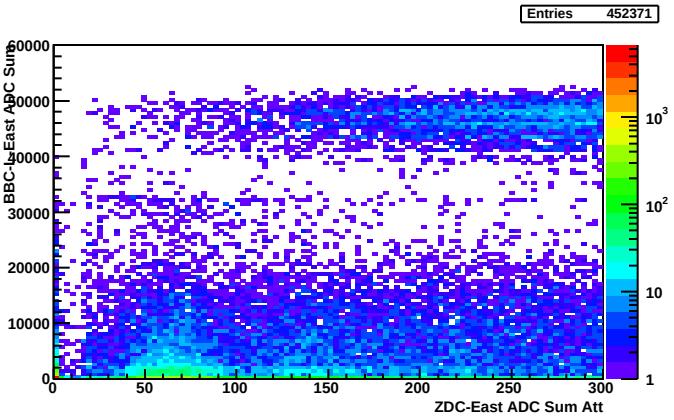

Entries 452371
TOF Mult
BBC-S-West ADC Sum

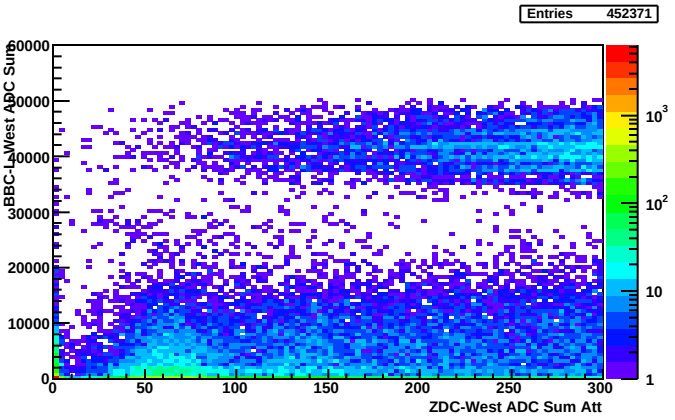

Entries 452371
TOF Mult
ZDC-East ADC Sum Att

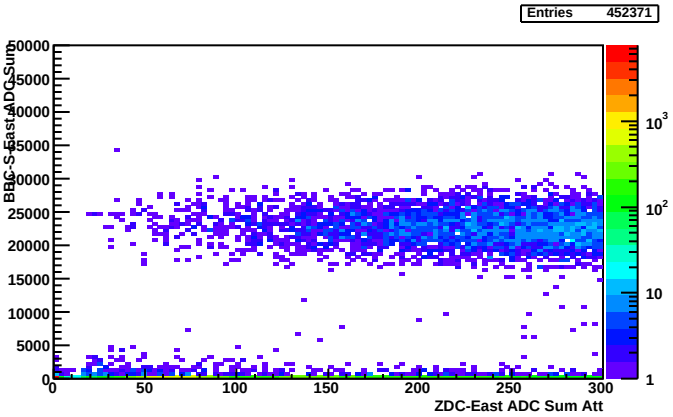

Entries 452371
TOF Mult
ZDC-West ADC Sum Att


Entries 452371
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 452371
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 452371
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 452371
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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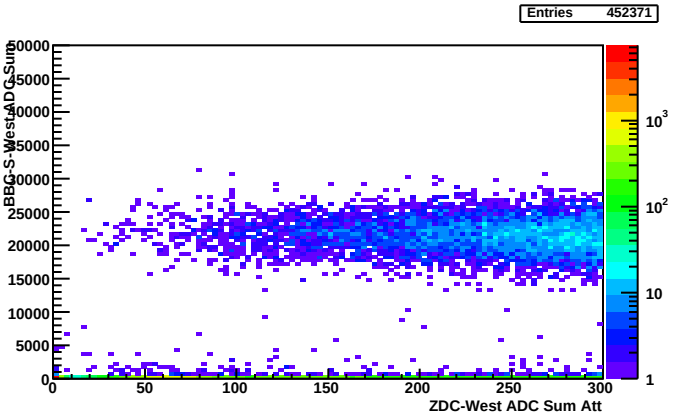
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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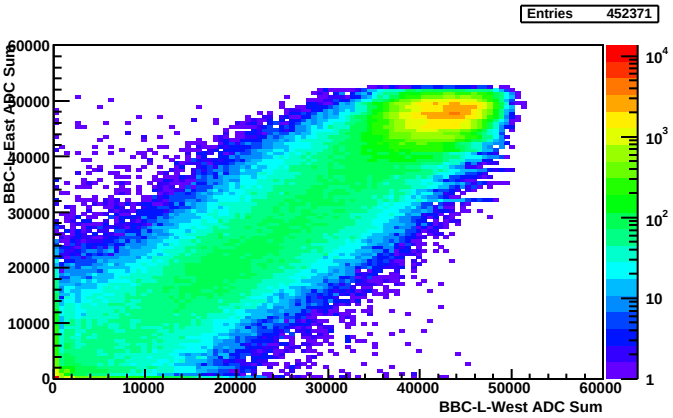
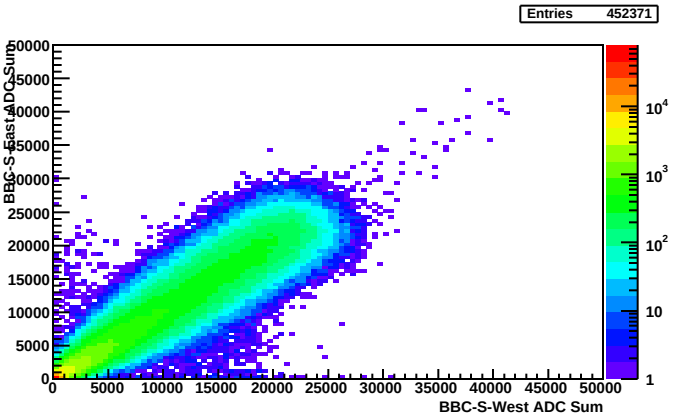
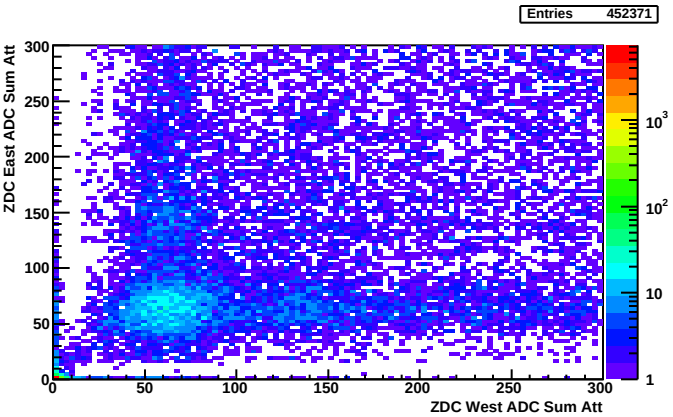
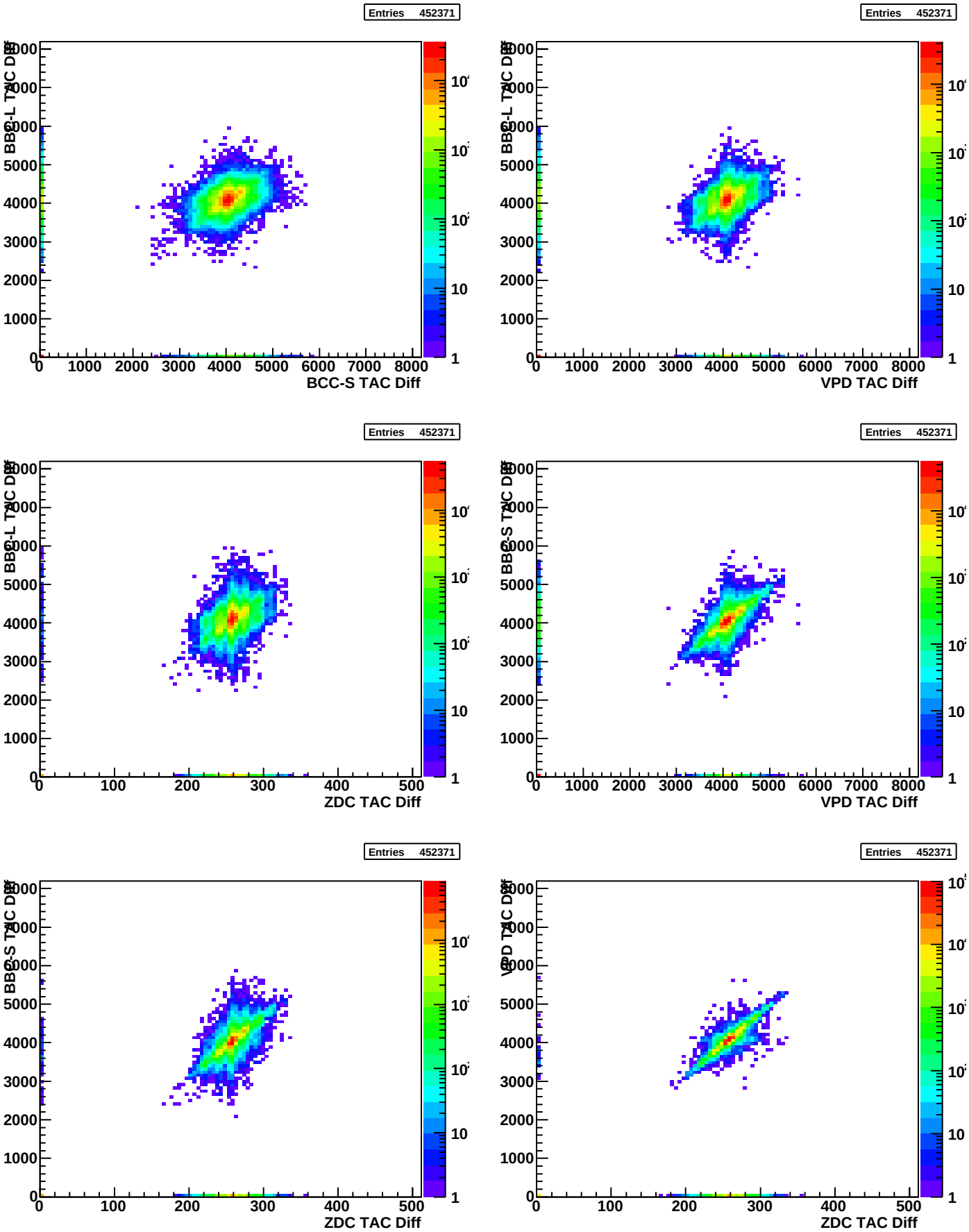
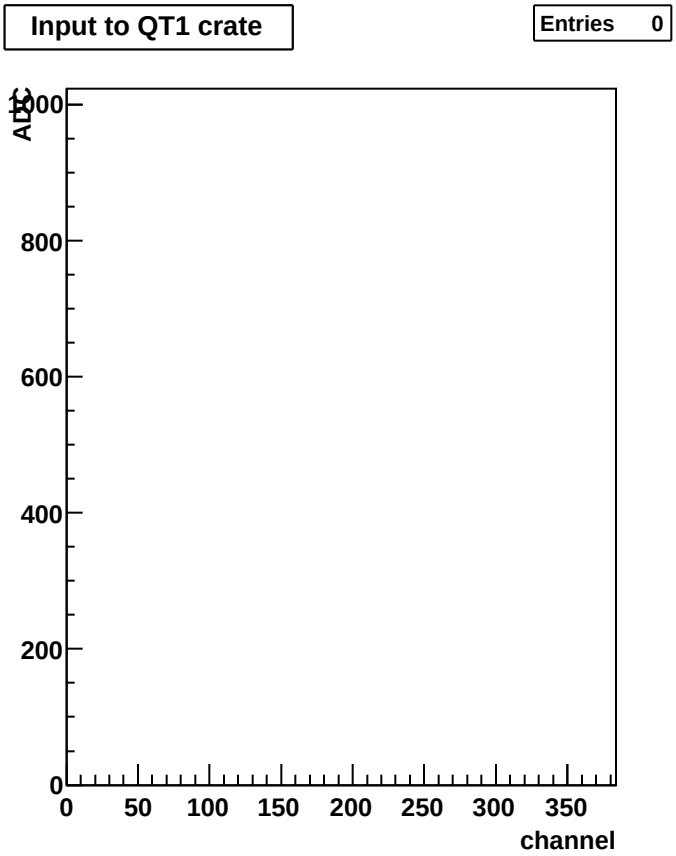
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

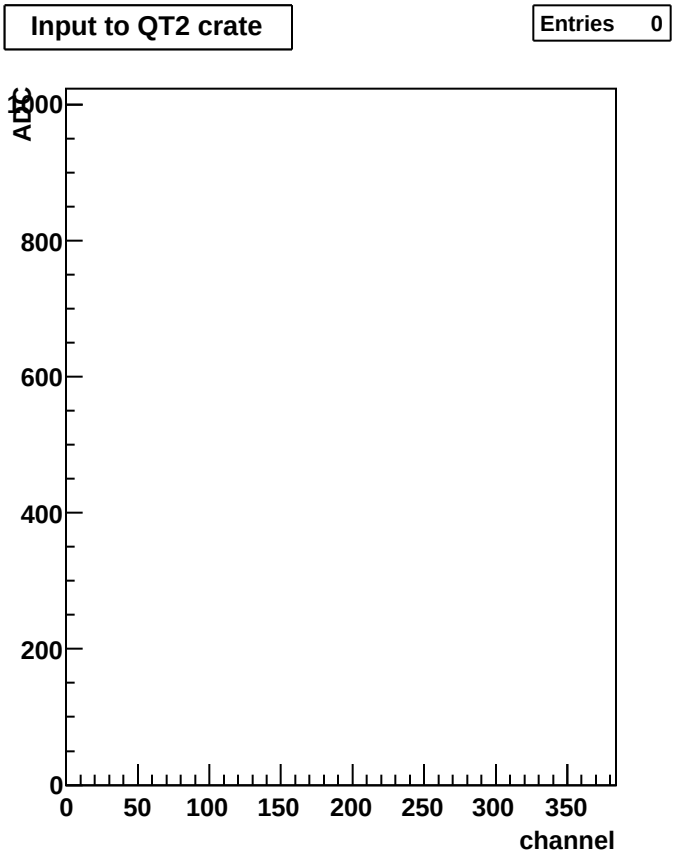

Entries 452371
BBC-L-East ADC Sum
BBC-L-West ADC Sum

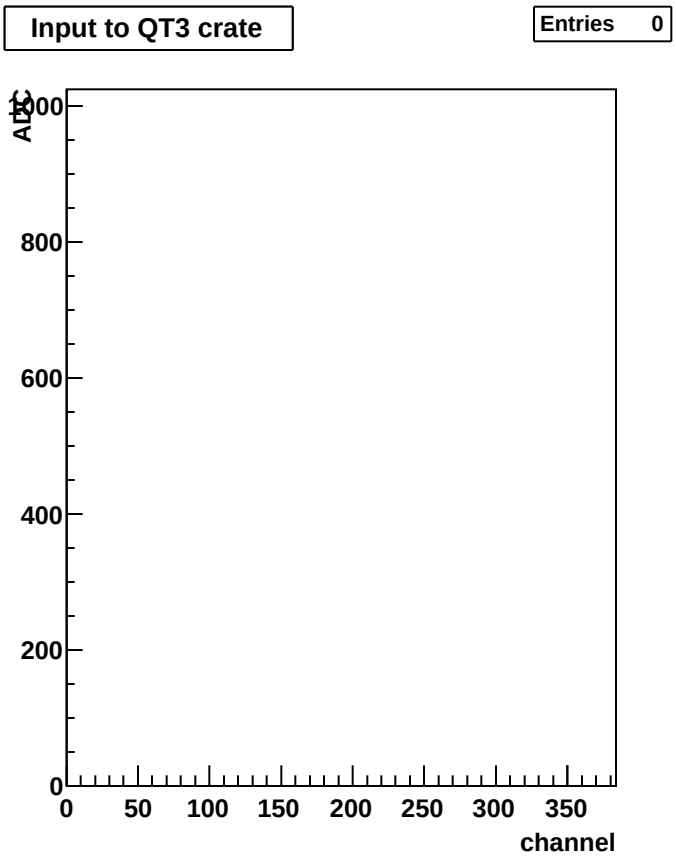

Entries 452371
BBC-S-East ADC Sum
BBC-S-West ADC Sum

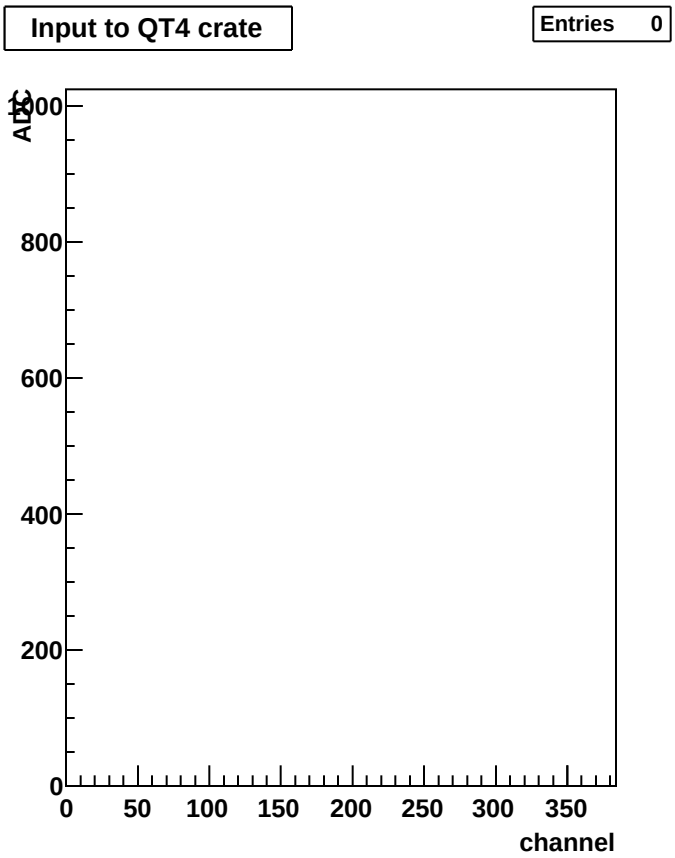

Entries 452371
ZDC East ADC Sum Att
ZDC West ADC Sum Att

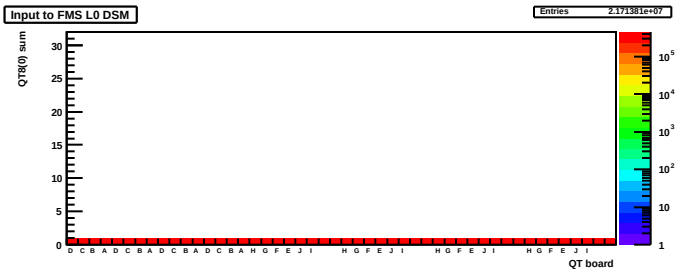

Entries 452371
BBC-L TAC Diff
BCC-S TAC Diff
Entries 452371
BBC-L TAC Diff
VPD TAC Diff
Entries 452371
BBC-L TAC Diff
ZDC TAC Diff
Entries 452371
BBC-S TAC Diff
VPD TAC Diff
Entries 452371
BBC-S TAC Diff
ZDC TAC Diff
Entries 452371
VPD TAC Diff
ZDC TAC Diff

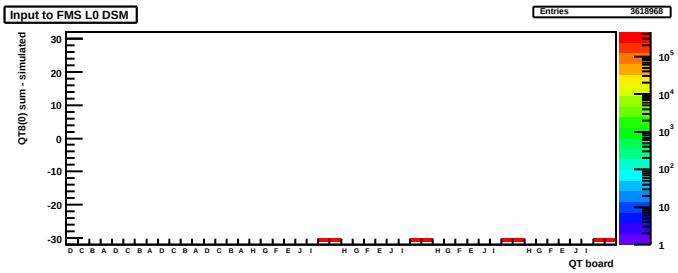

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

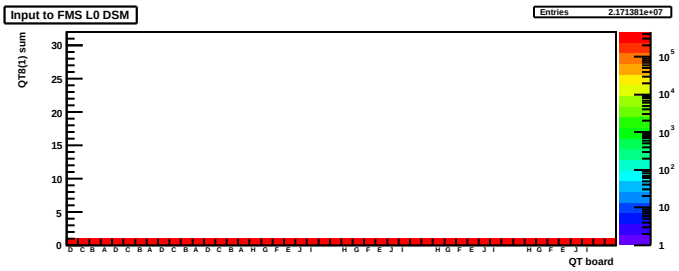

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

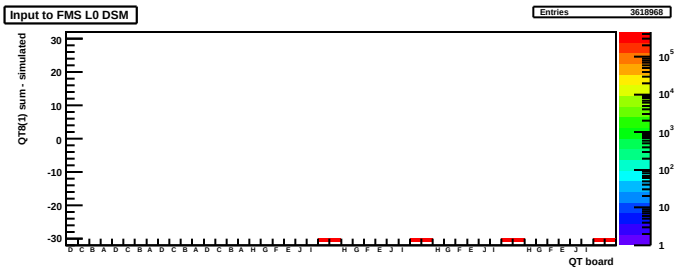

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

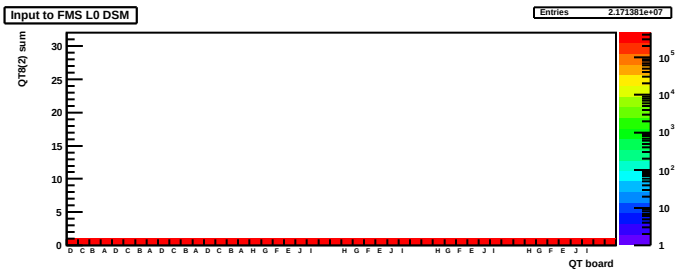

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

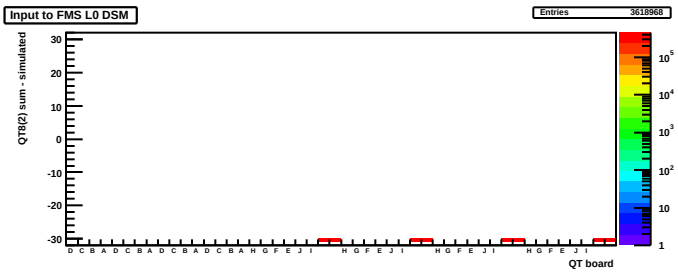

Input to FMS L0 DSM
Entries 2.171381e+07
QT8(0) sum
QT board

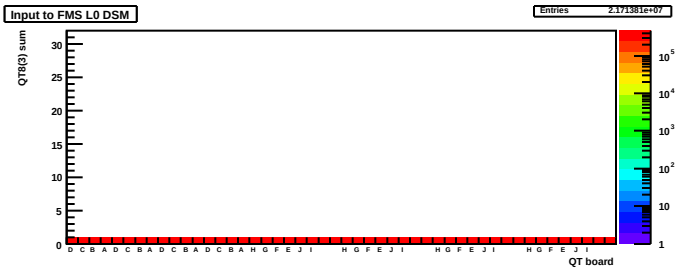

Input to FMS L0 DSM
Entries 3618968
QT8(0) sum - simulated
QT board

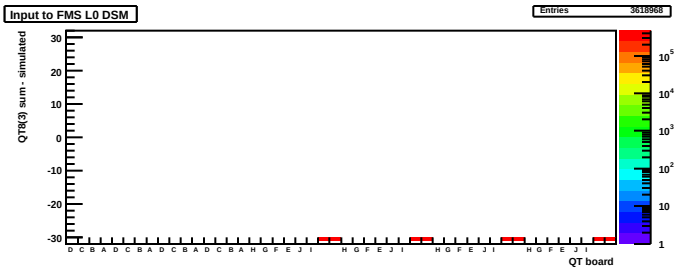

Input to FMS L0 DSM
Entries 2.171381e+07
QT8(1) sum
QT board

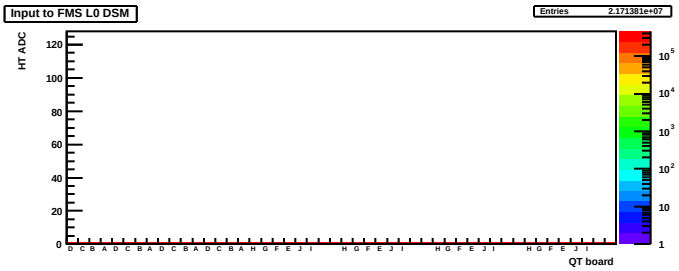

Input to FMS L0 DSM
Entries 3618968
QT8(1) sum - simulated
QT board

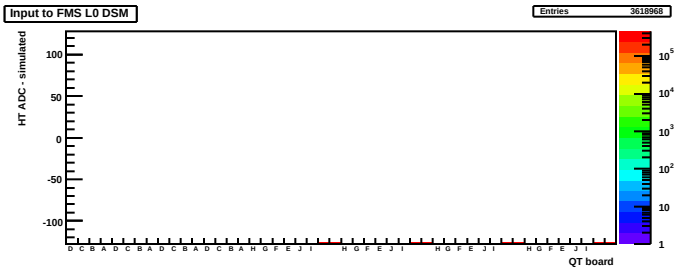

Input to FMS L0 DSM
Entries 2.171381e+07
QT8(2) sum
QT board

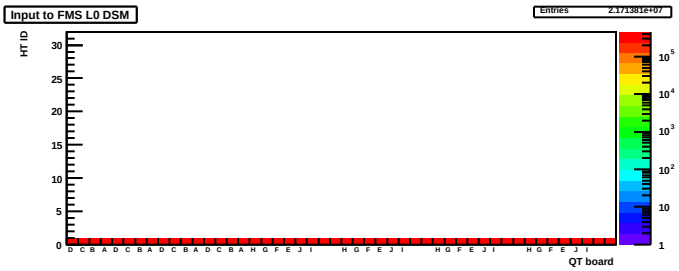

Input to FMS L0 DSM
Entries 3618968
QT8(2) sum - simulated
QT board

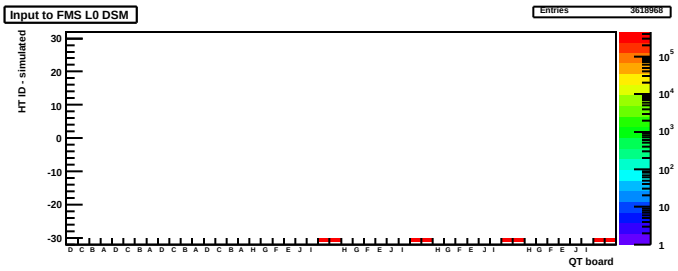

Input to FMS L0 DSM
Entries 2.171381e+07
QT8(3) sum
QT board

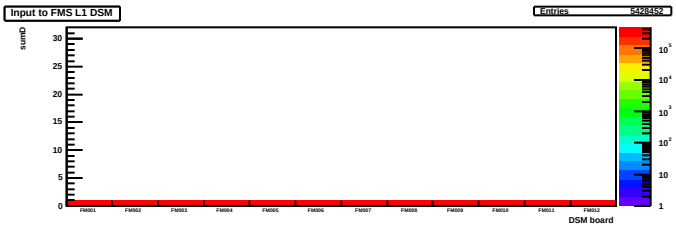

Input to FMS L0 DSM
Entries 3618968
QT8(3) sum - simulated
QT board

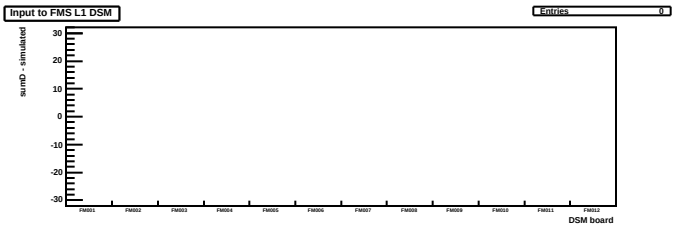

Input to FMS L0 DSM
Entries 2.171381e+07
HT ADC
QT board

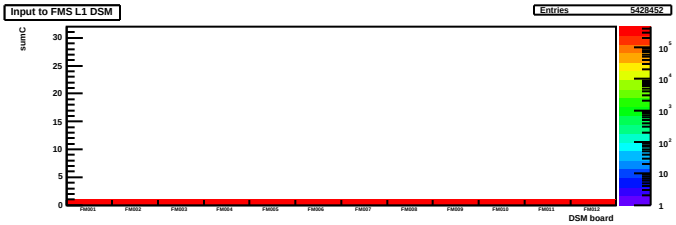

Input to FMS L0 DSM
Entries 3618968
HT ADC - simulated
QT board

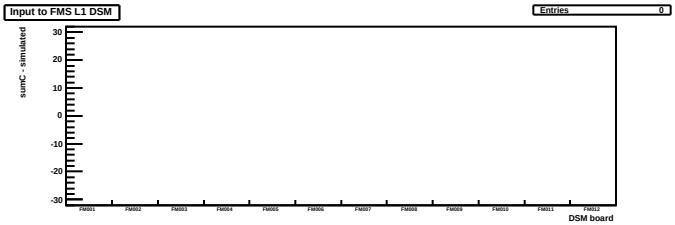

Input to FMS L0 DSM
Entries 2.171381e+07
HT ID
QT board

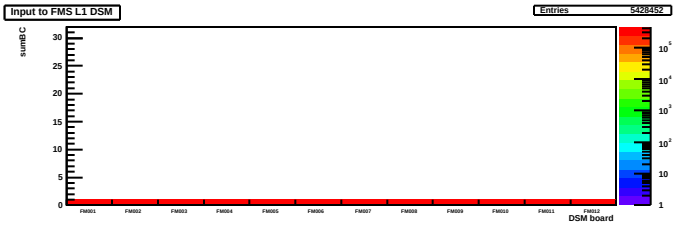

Input to FMS L0 DSM
Entries 3618968
HT ID - simulated
QT board

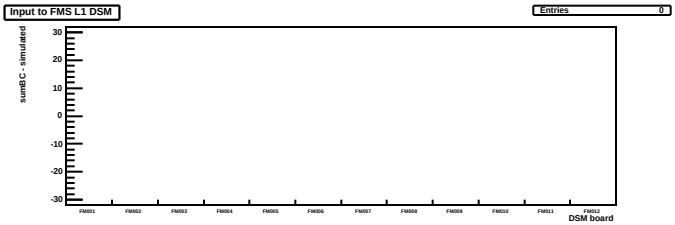

Input to FMS L1 DSM
Entries 5428452
sumD
DSM board

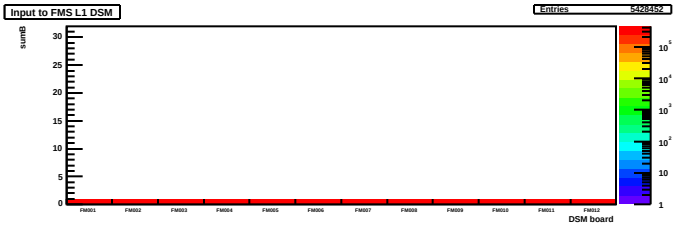

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

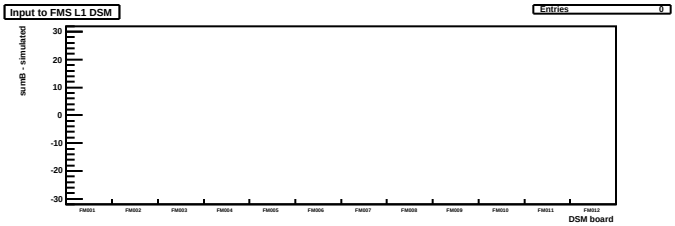

Input to FMS L1 DSM
Entries 5428452
sumC
DSM board

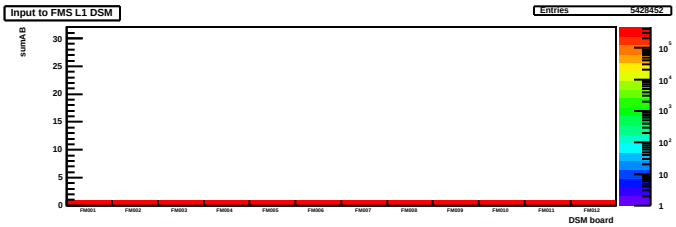

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

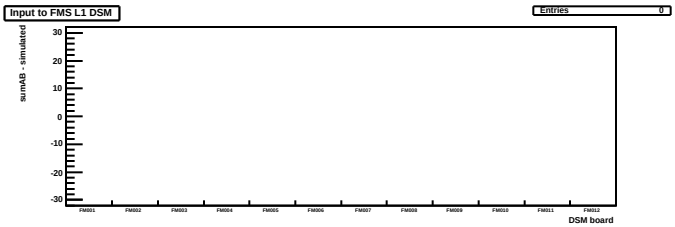

Input to FMS L1 DSM
Entries 5428452
sumBC
DSM board

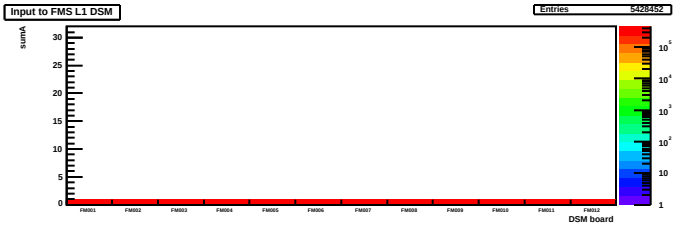

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

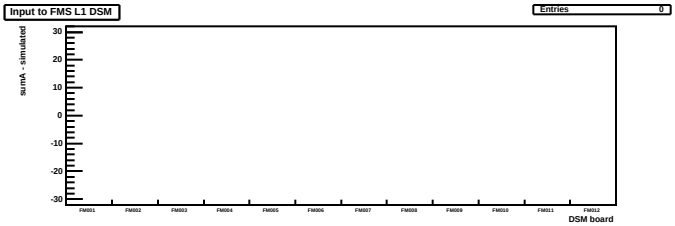

Input to FMS L1 DSM
Entries 5428452
sumB
DSM board

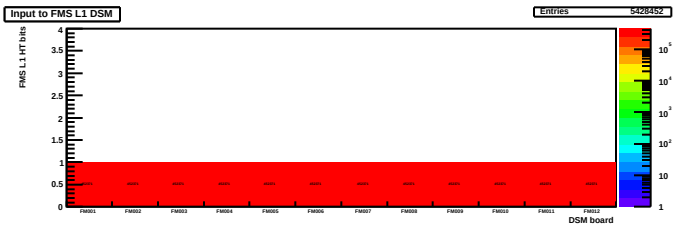

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

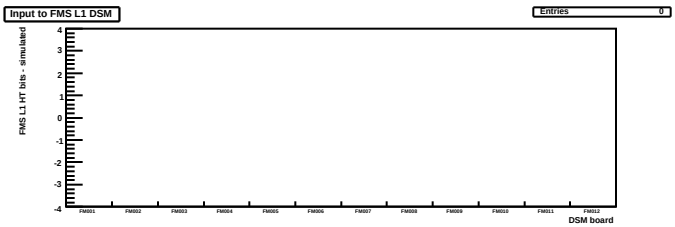

Input to FMS L1 DSM
Entries 5428452
sumAB
DSM board

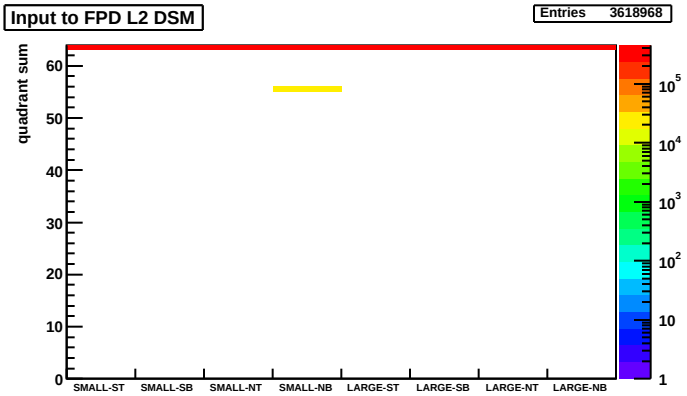

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

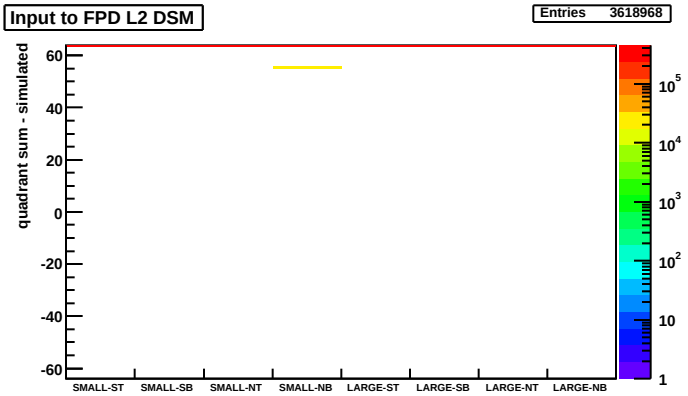

Input to FMS L1 DSM
Entries 5428452
sumA
DSM board

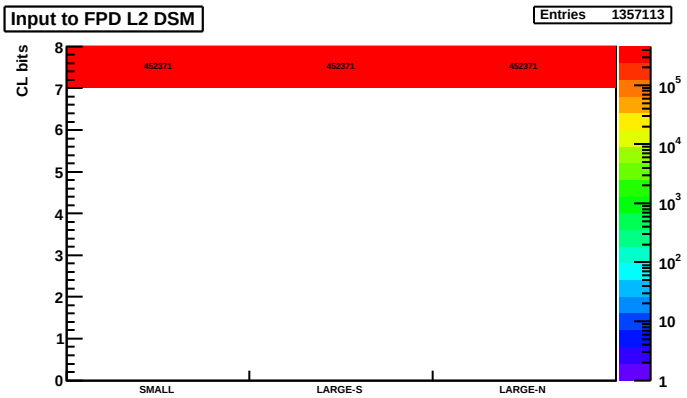

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

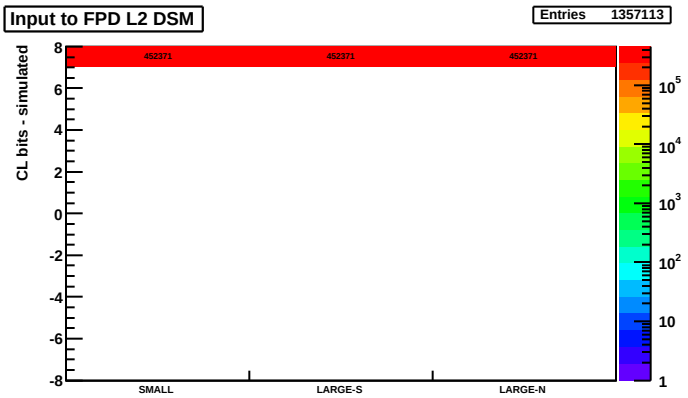

Input to FMS L1 DSM
Entries 5428452
FMS L1 HT bits
DSM board

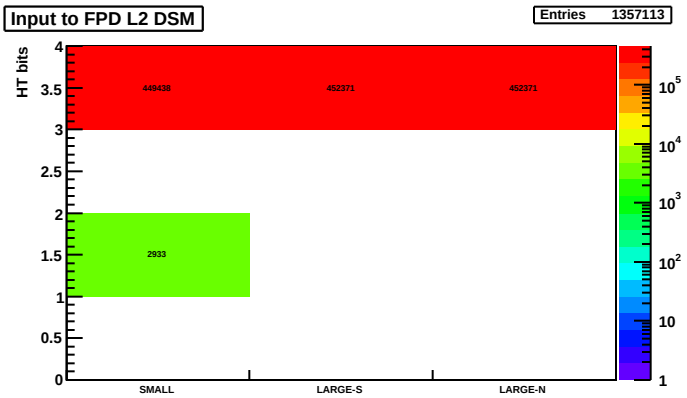

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

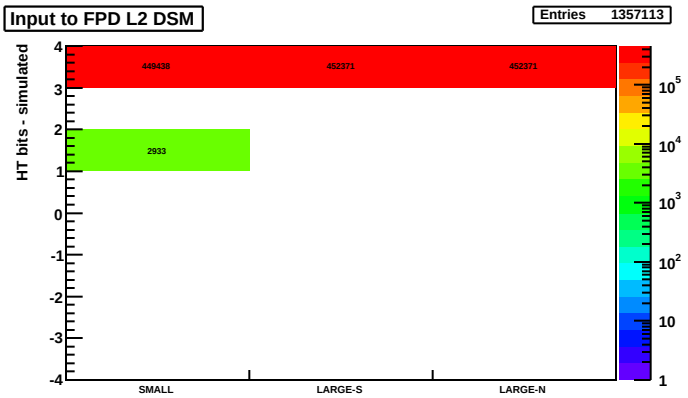

Input to FPD L2 DSM
Entries 3618968
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

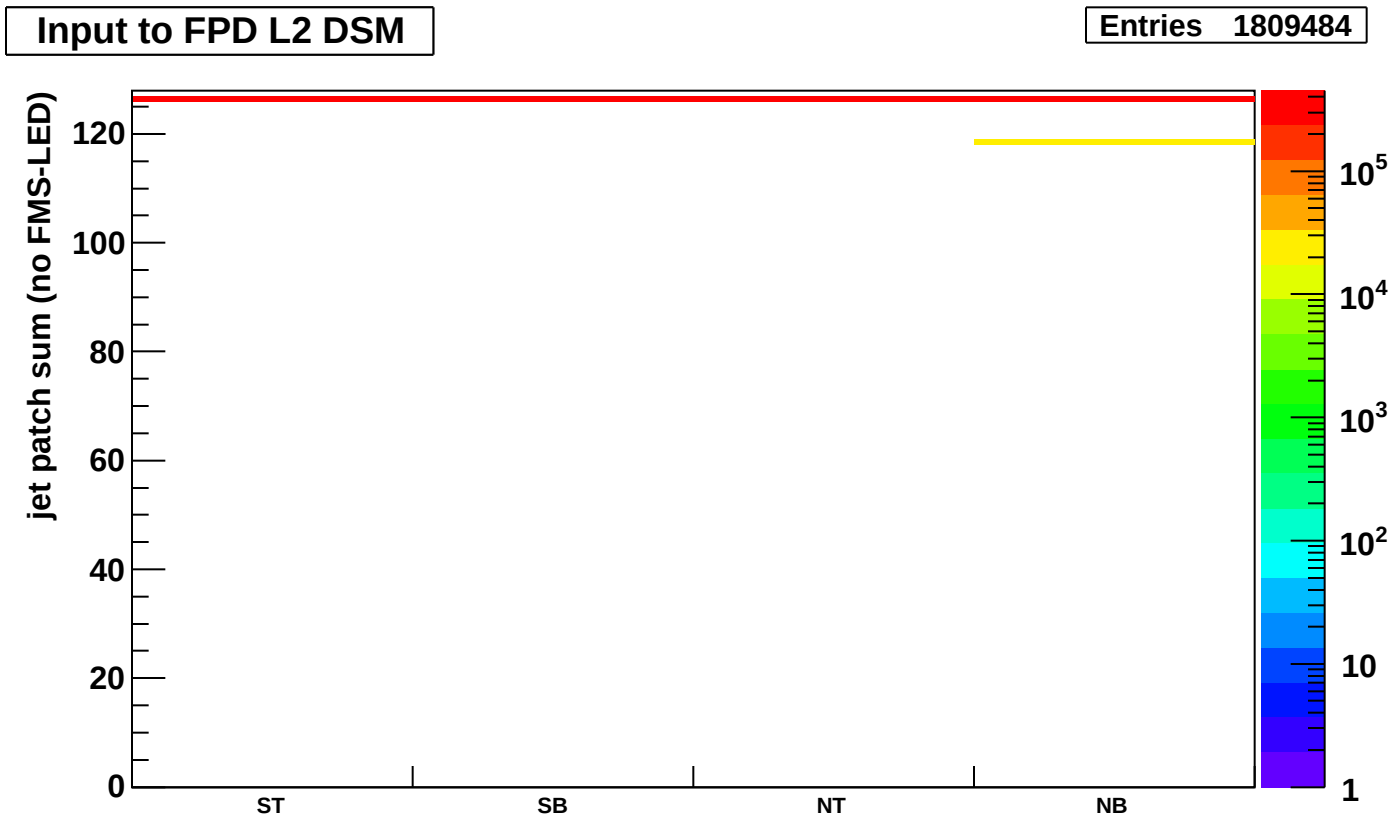

Input to FPD L2 DSM
Entries 3618968
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

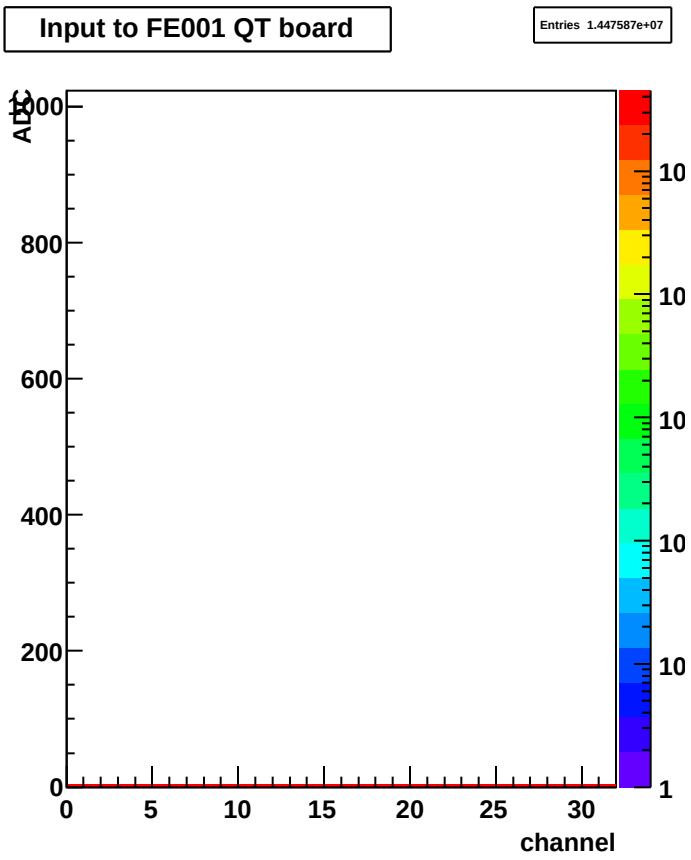

Input to FPD L2 DSM
Entries 1357113
CL bits
452371
452371
452371
SMALL
LARGE-S
LARGE-N

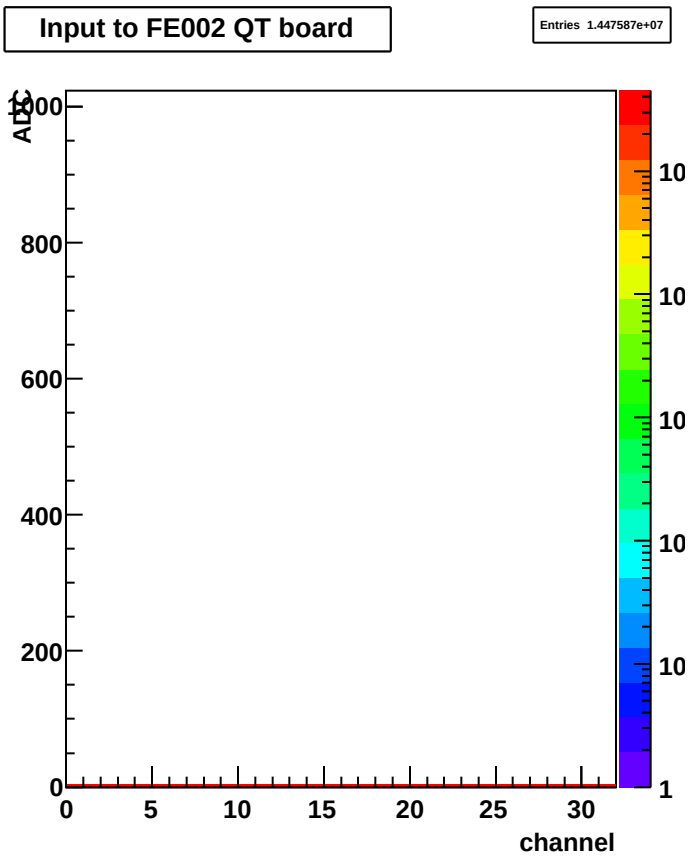

Input to FPD L2 DSM
Entries 1357113
CL bits - simulated
452371
452371
452371
SMALL
LARGE-S
LARGE-N

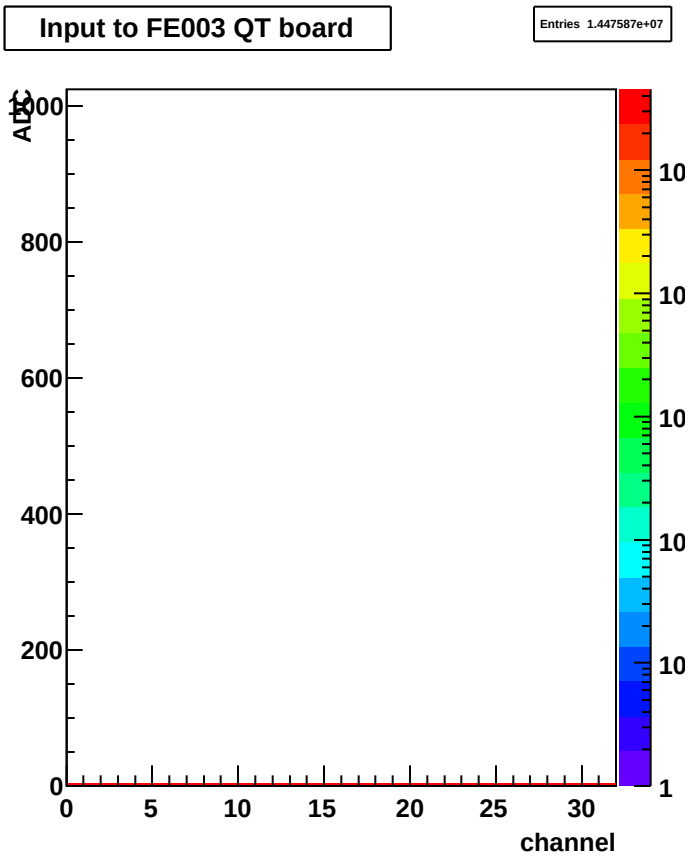

Input to FPD L2 DSM
Entries 1357113
HT bits
449438
452371
452371
2933
SMALL
LARGE-S
LARGE-N

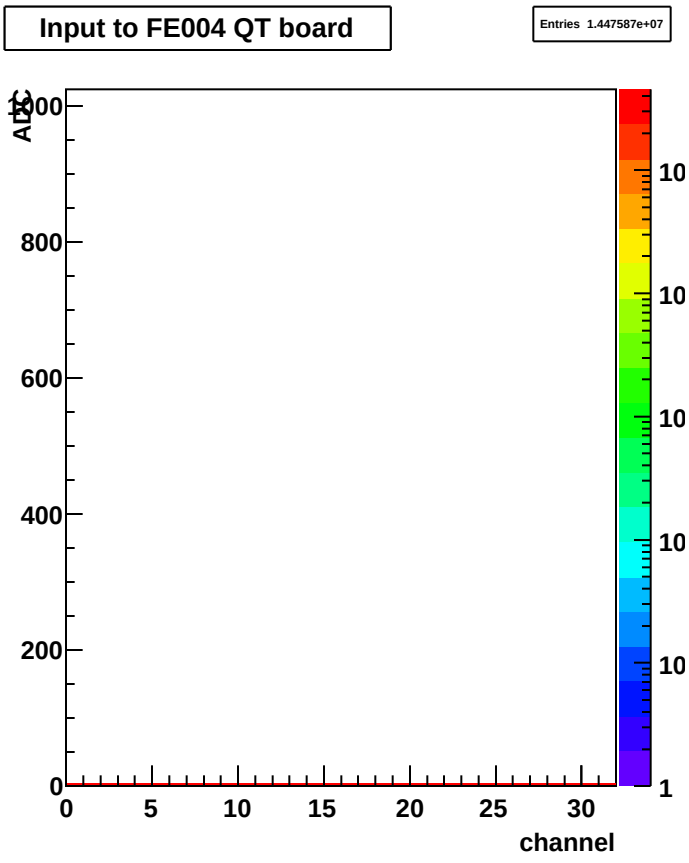

Input to FPD L2 DSM
Entries 1357113
HT bits - simulated
449438
452371
452371
2933
SMALL
LARGE-S
LARGE-N

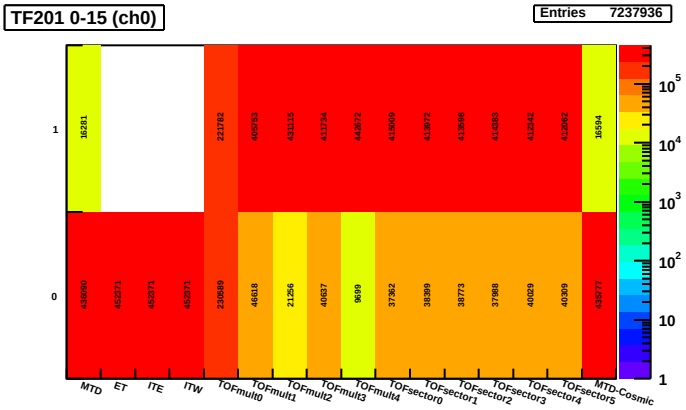

Input to FPD L2 DSM
Entries 1809484
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

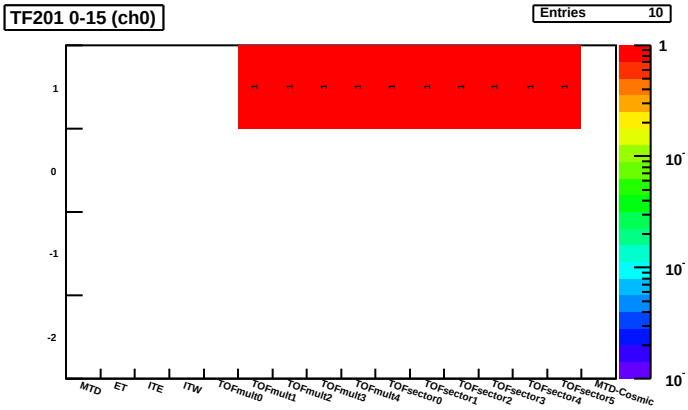

Input to FE001 QT board
Entries 1.447587e+07
ADC
channel

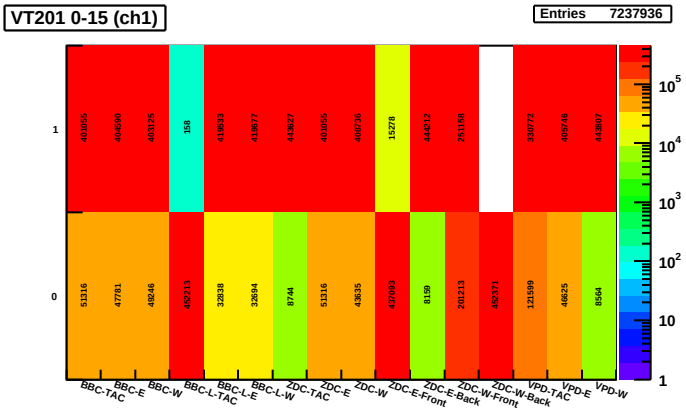

Input to FE002 QT board
Entries 1.447587e+07
ADC
channel

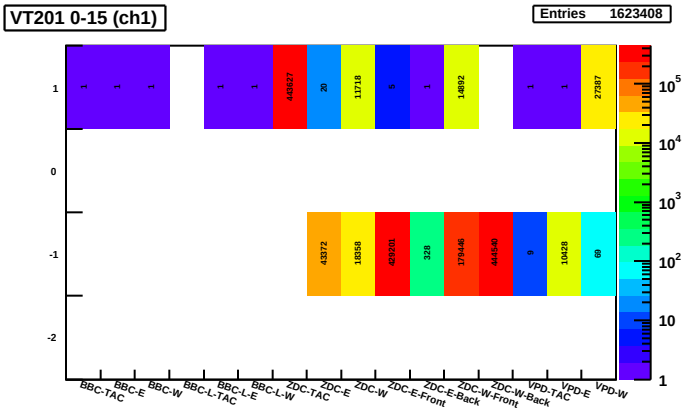

Input to FE003 QT board
Entries 1.447587e+07
ADC
channel

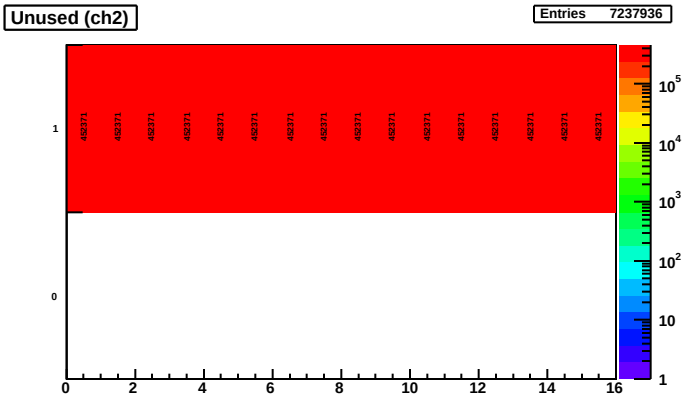

Input to FE004 QT board
Entries 1.447587e+07
ADC
channel

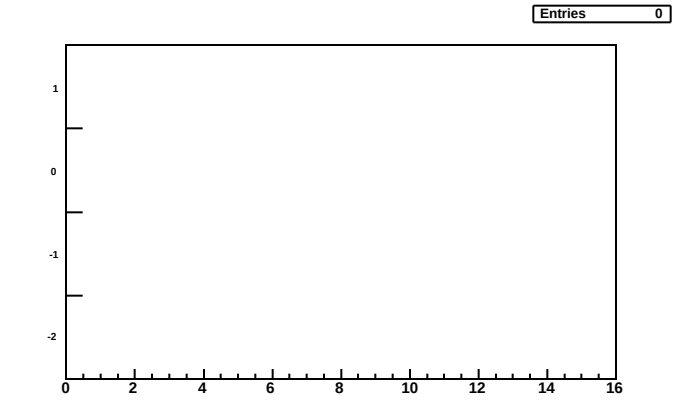

TF201 0-15 (ch0)
Entries 7237936
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

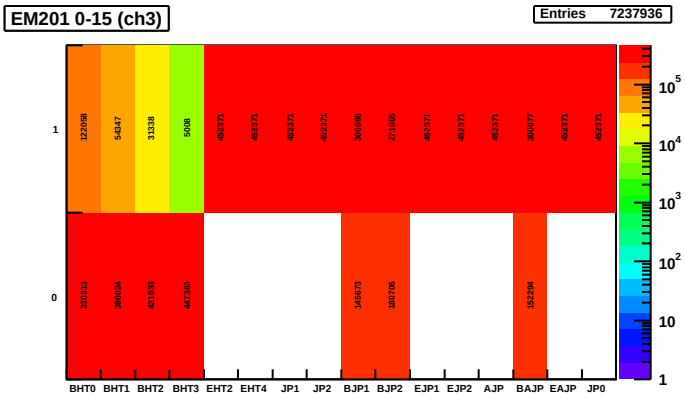

TF201 0-15 (ch0)
Entries 10
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

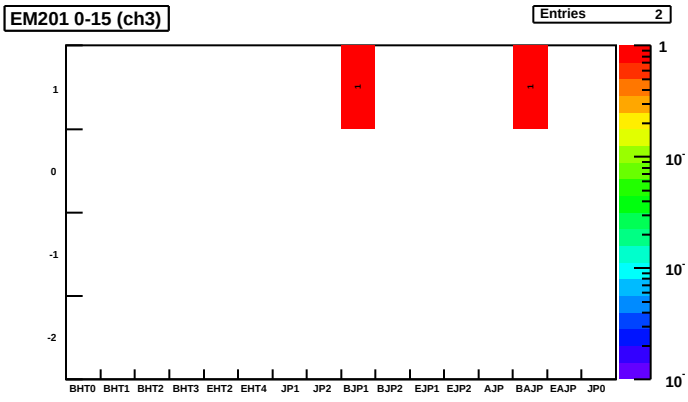

VT201 0-15 (ch1)
Entries 7237936
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1623408
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

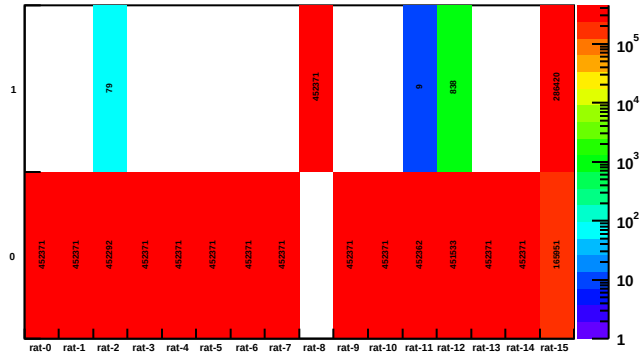

Unused (ch2)
Entries 7237936

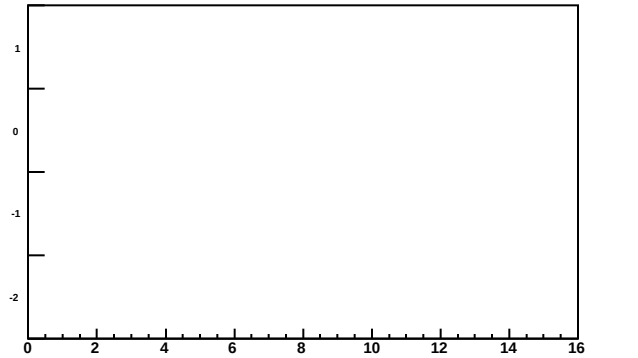

Entries 0


EM201 0-15 (ch3)
Entries 7237936
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

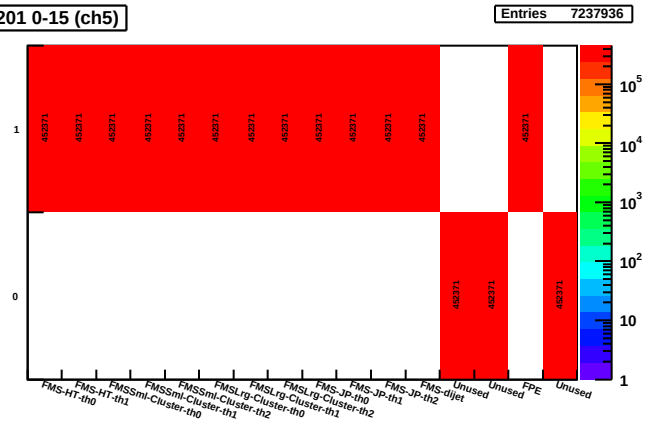

EM201 0-15 (ch3)
Entries 2
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

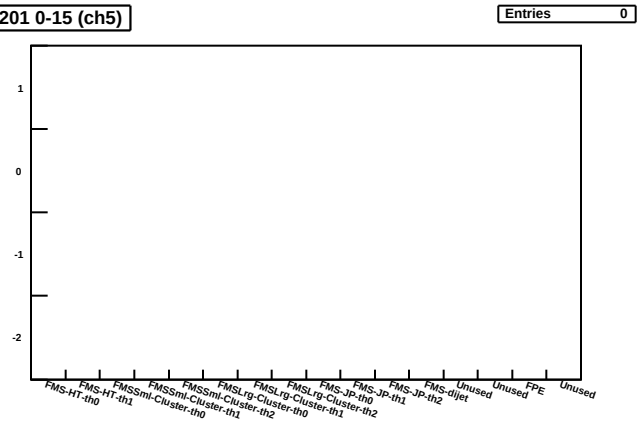




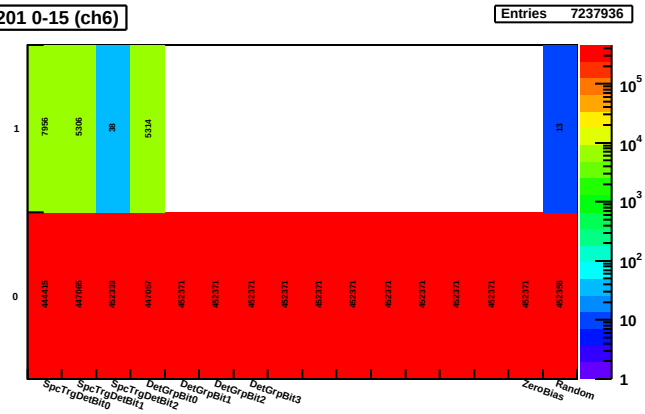
FP201 0-15 (ch5)

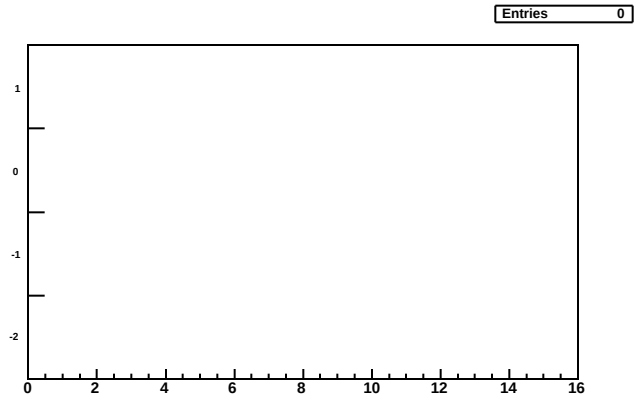
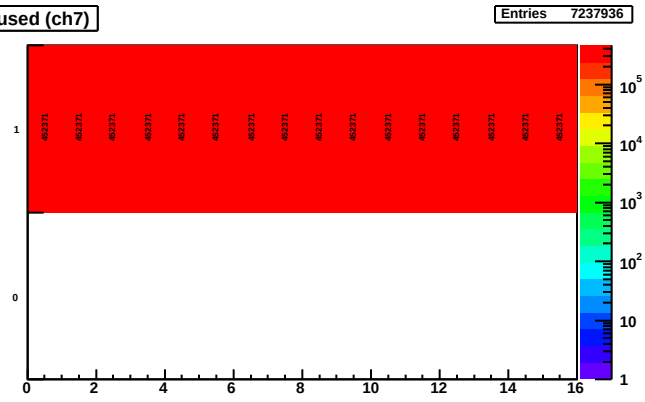
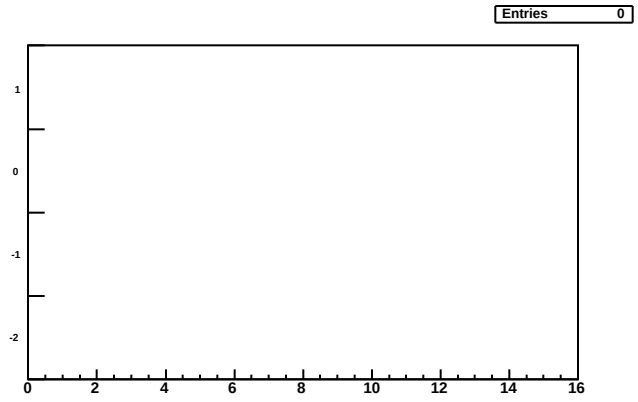


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)