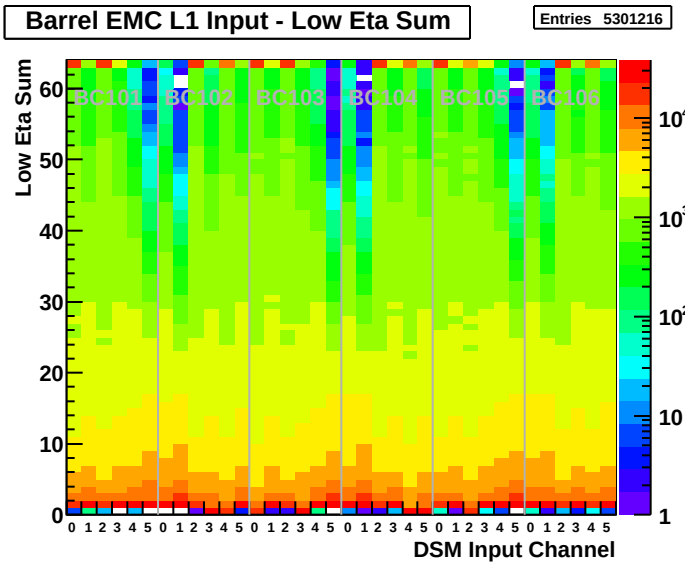
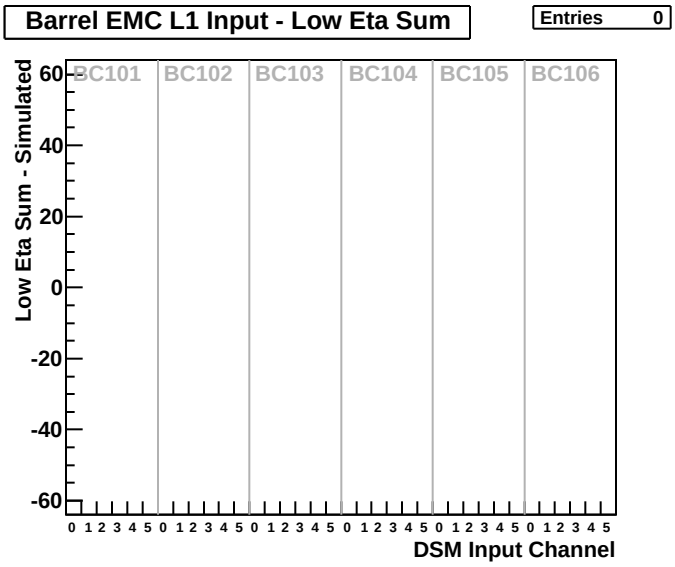
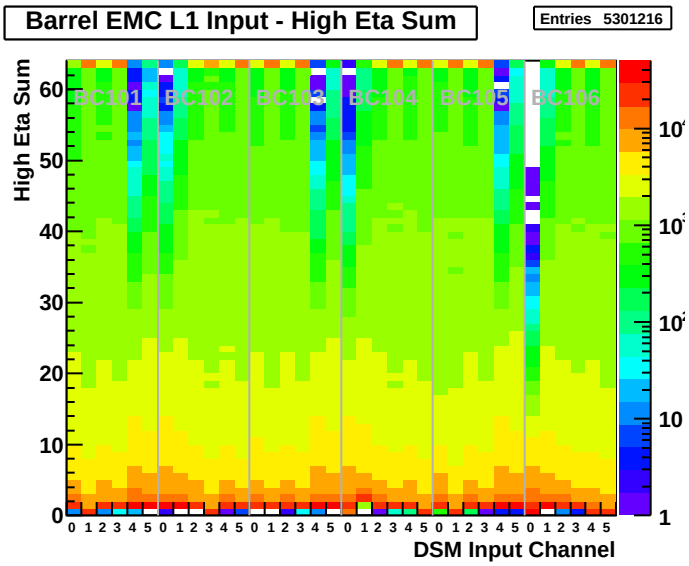
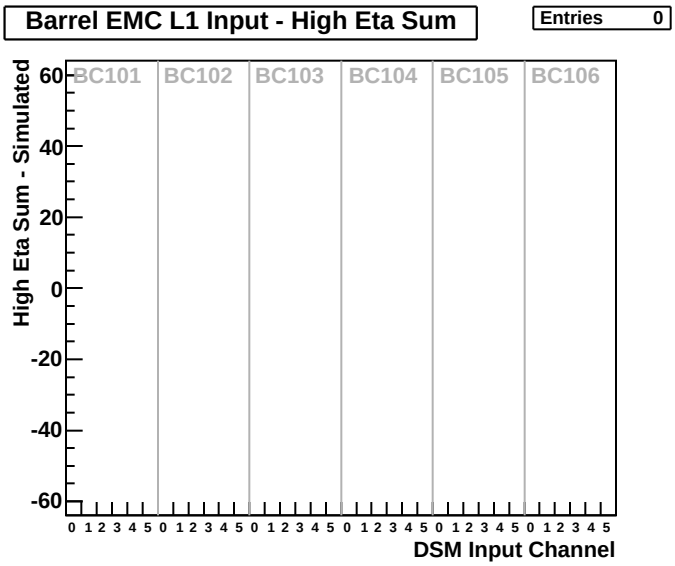
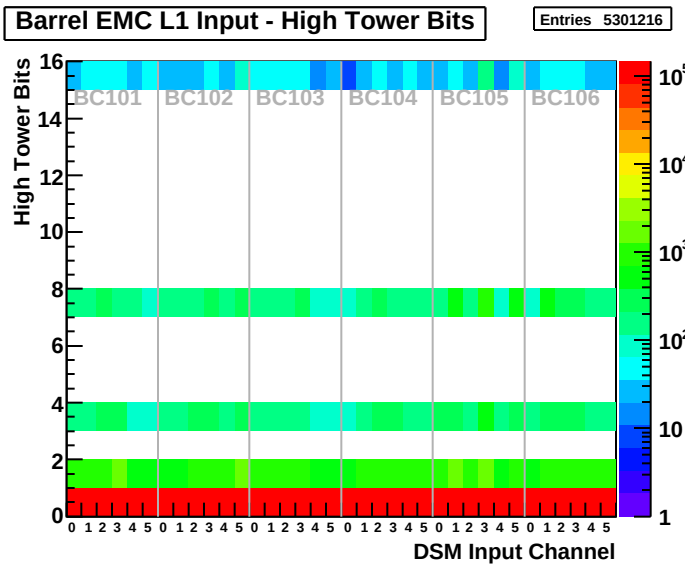
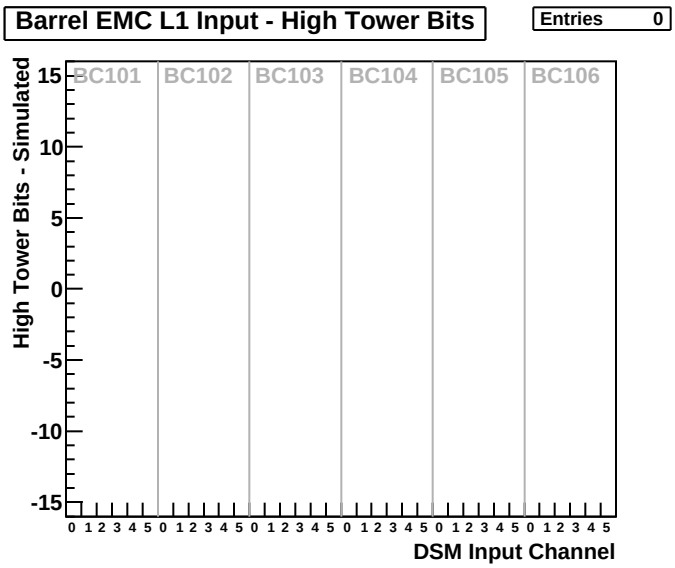

Barrel EMC L1 Input - Low Eta Sum
Entries 5301216
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

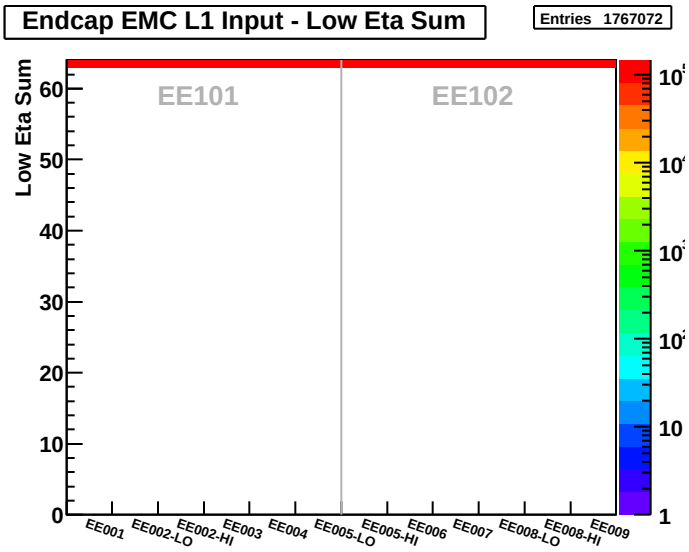

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

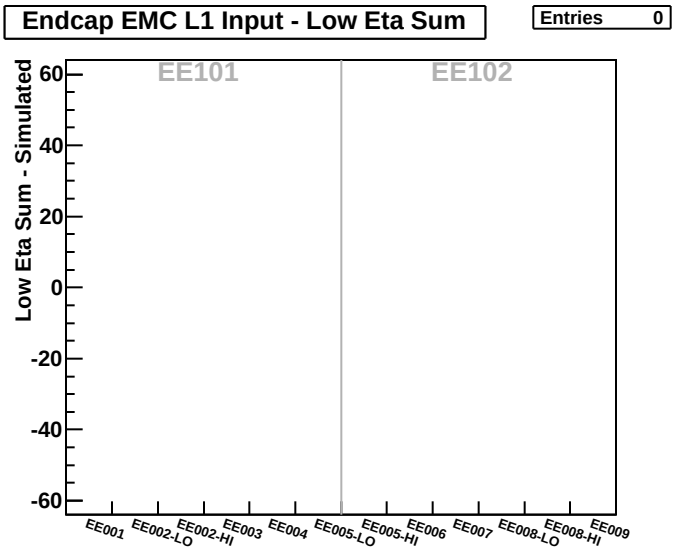

Barrel EMC L1 Input - High Eta Sum
Entries 5301216
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

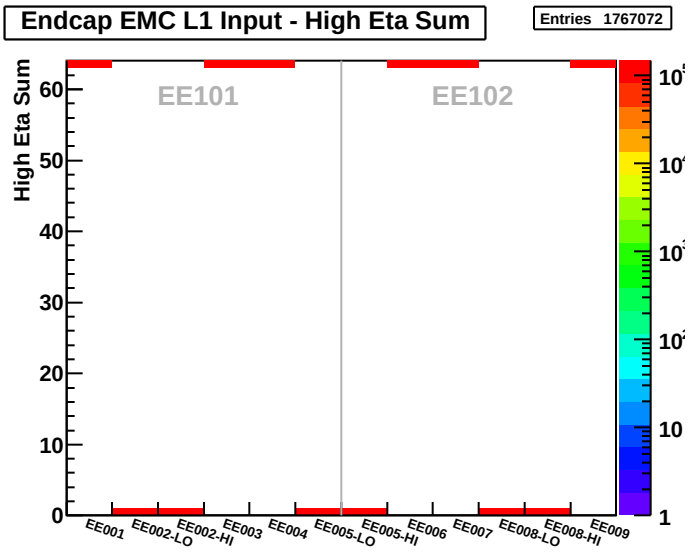

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

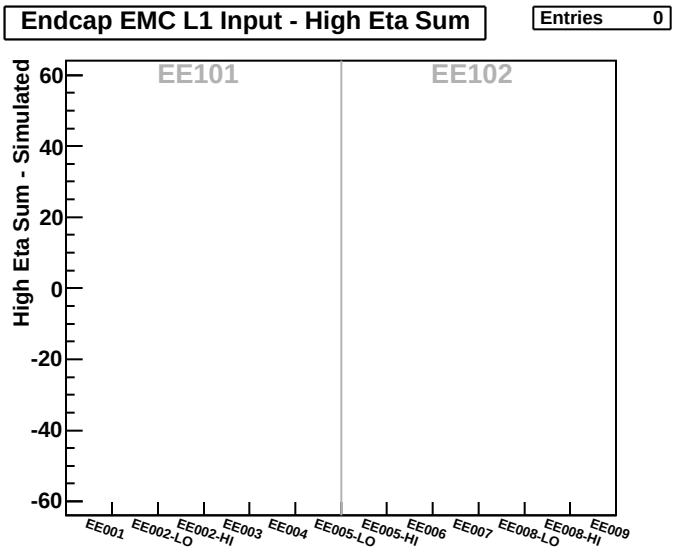

Barrel EMC L1 Input - High Tower Bits
Entries 5301216
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

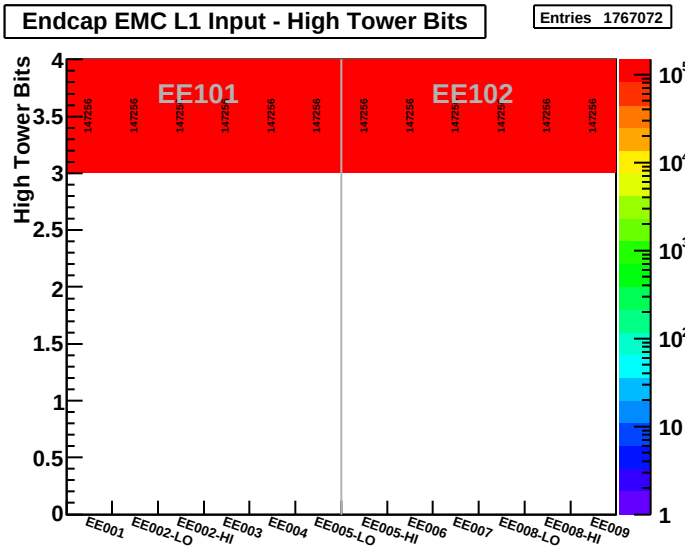

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

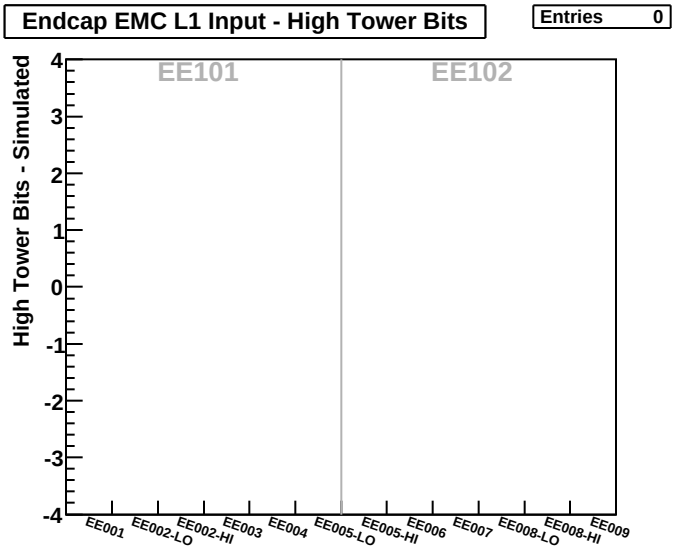

Endcap EMC L1 Input - Low Eta Sum
Entries 1767072
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

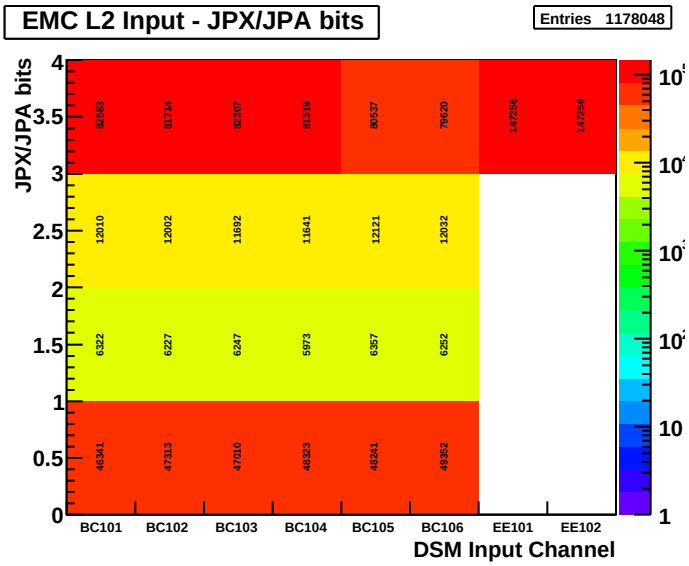

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

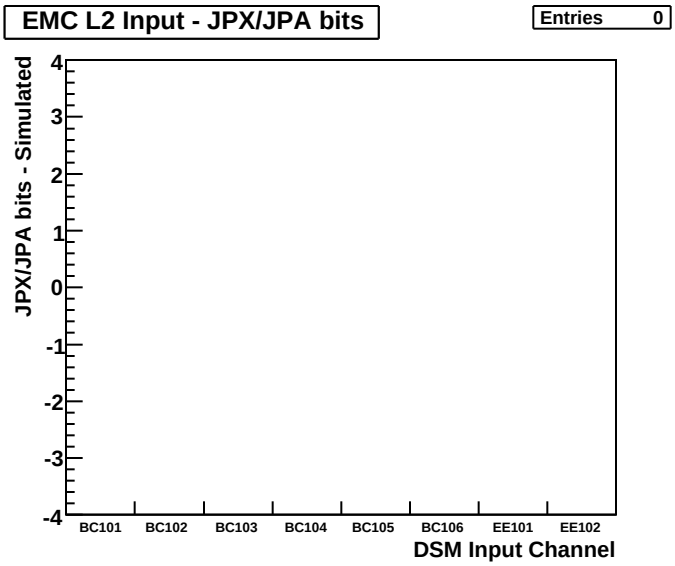

Endcap EMC L1 Input - High Eta Sum
Entries 1767072
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

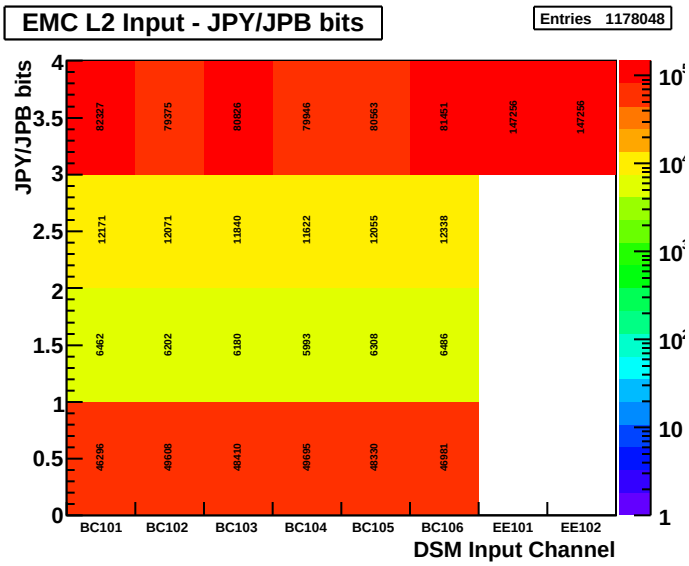

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

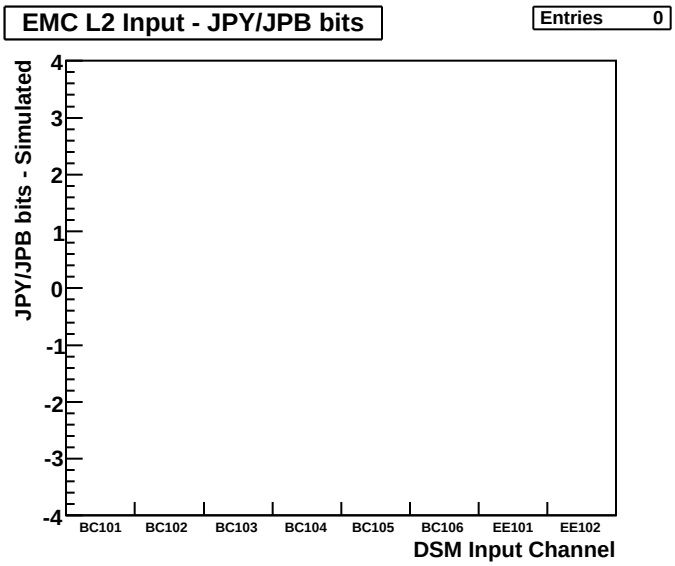

Endcap EMC L1 Input - High Tower Bits
Entries 1767072
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

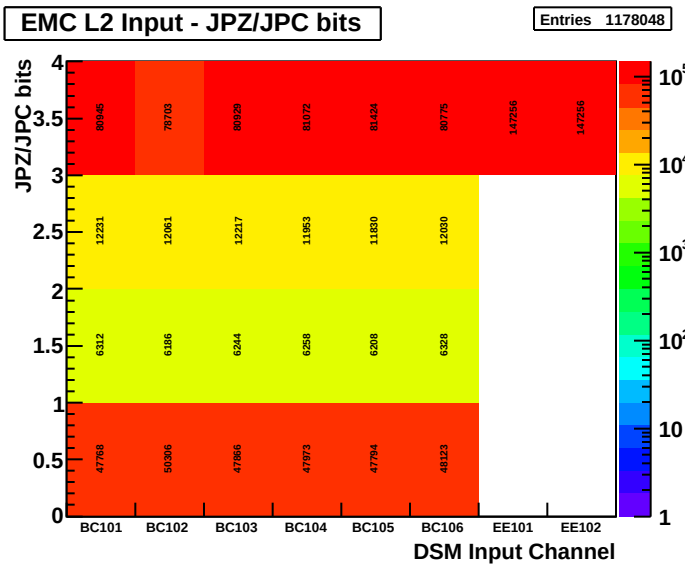

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

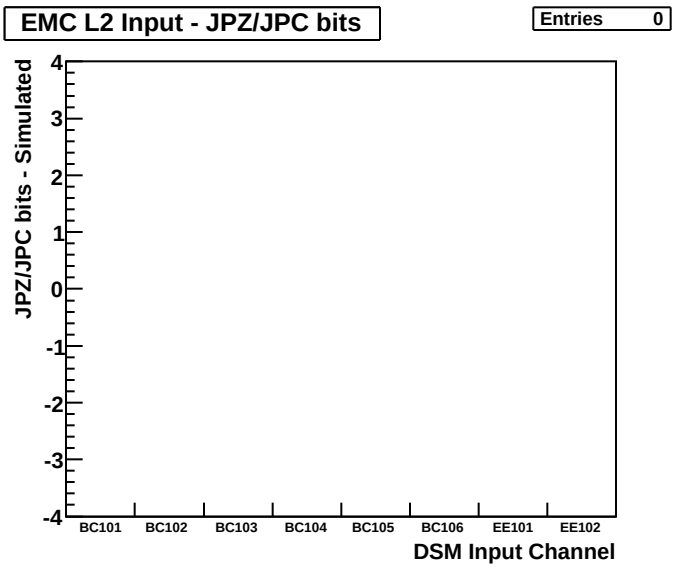

EMC L2 Input - JPX/JPA bits
Entries 1178048
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
82583 81714 82307 81319 80537 79620 147256 147256
12010 12002 11692 11641 12121 12032
6322 6227 6247 5973 6357 6252
46341 47313 47010 48323 48241 49352

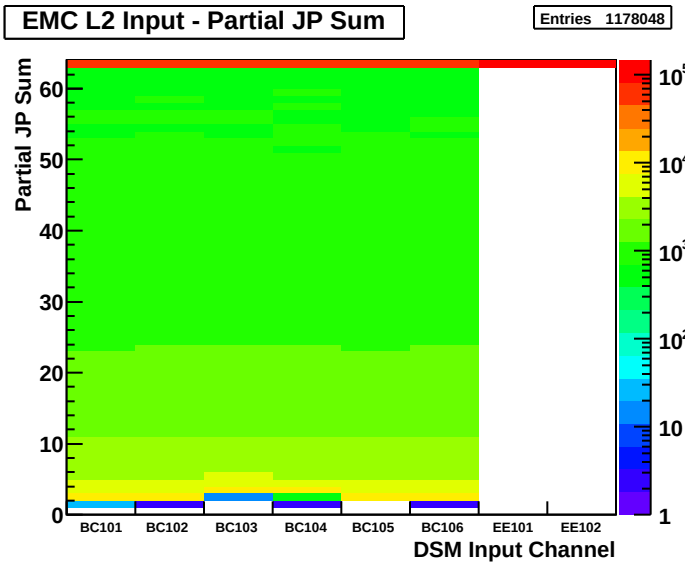

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

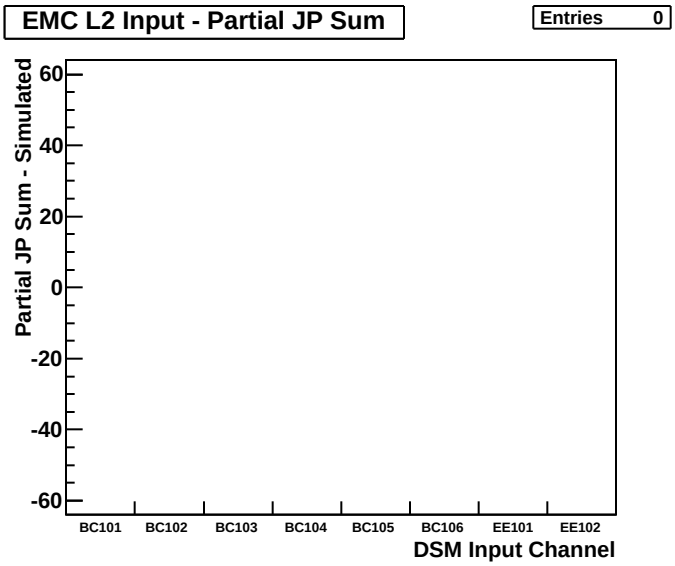

EMC L2 Input - JPY/JPB bits
Entries 1178048
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
82327 79375 80826 79946 80563 81451 147256 147256
12171 12071 11840 11622 12055 12338
6462 6202 6180 5993 6308 6486
46296 49608 48410 49695 48330 46981

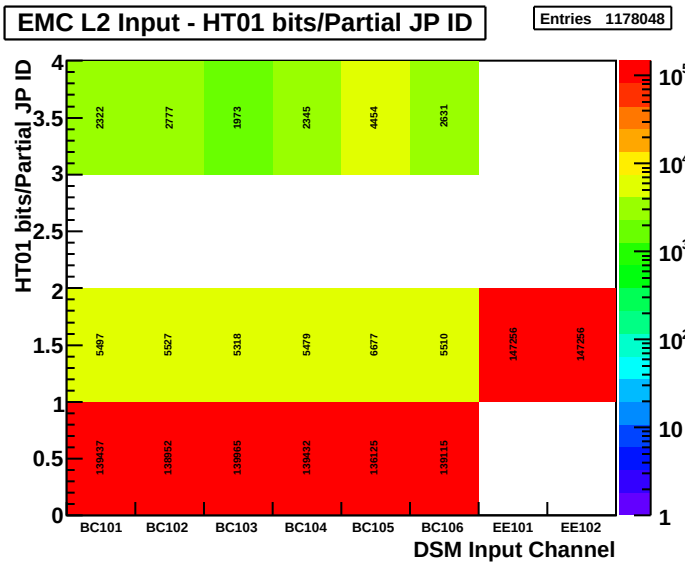

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

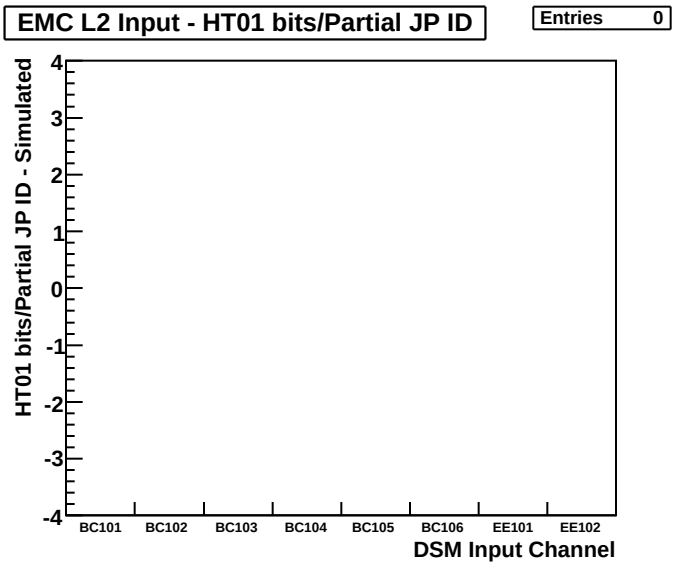

EMC L2 Input - JPZ/JPC bits
Entries 1178048
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
80945 78703 80929 81072 81424 80775 147256 147256
12231 12061 12217 11953 11830 12030
6312 6186 6244 6258 6208 6328
47768 50306 47866 47973 47794 48123

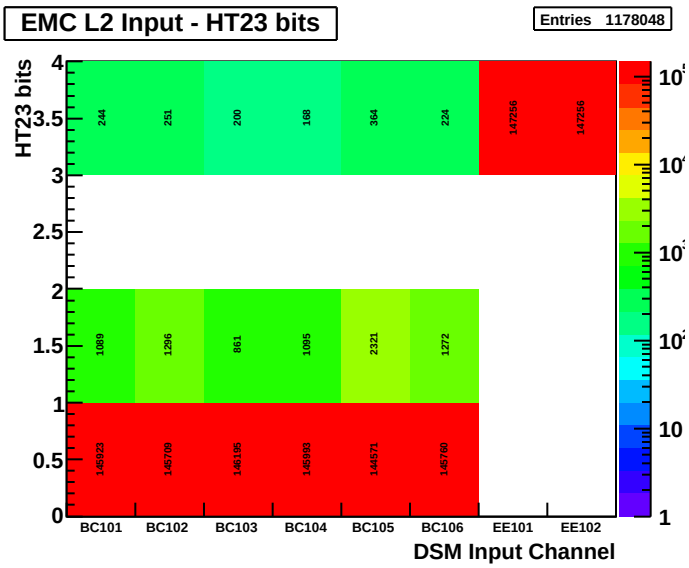

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

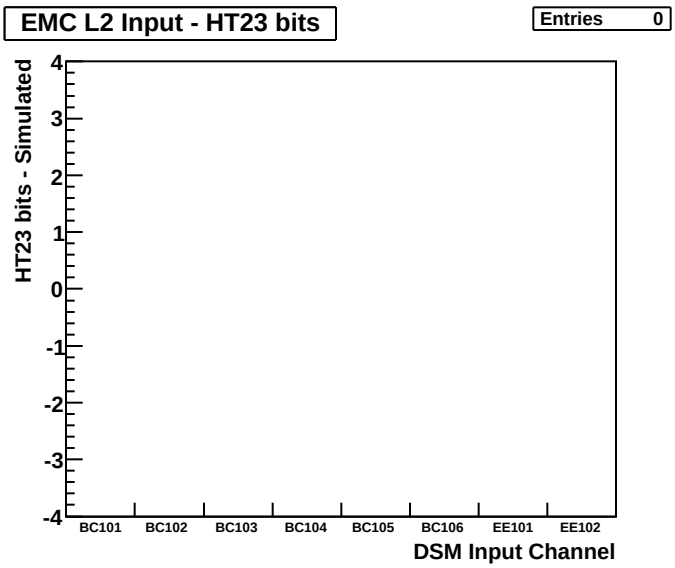

EMC L2 Input - Partial JP Sum
Entries 1178048
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

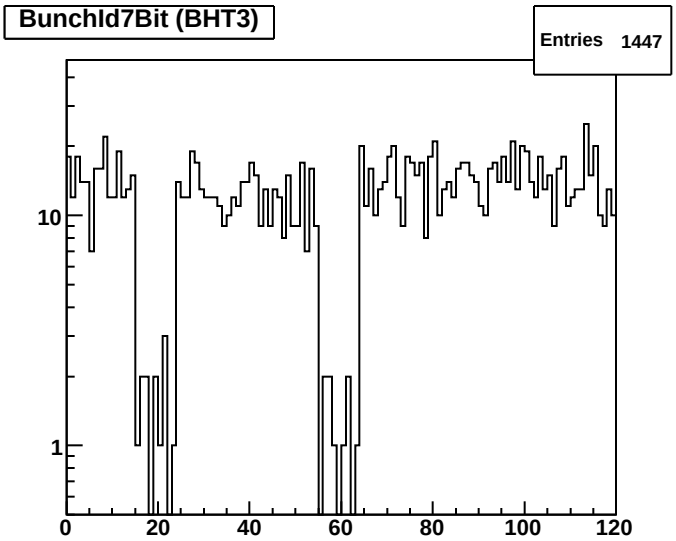

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

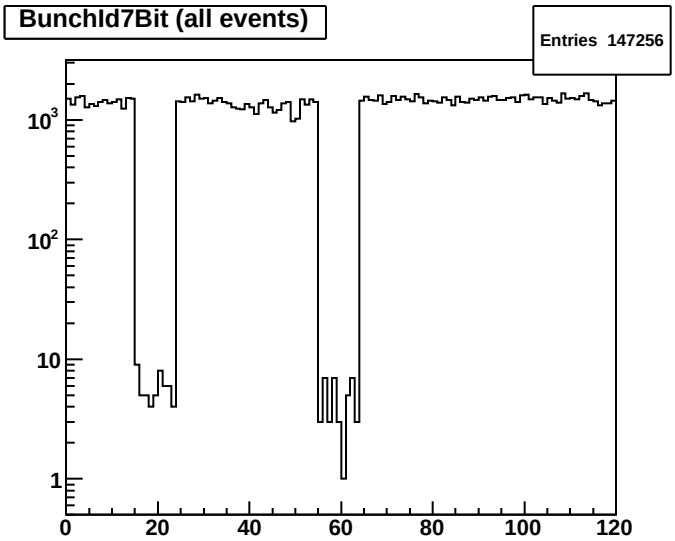

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1178048
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

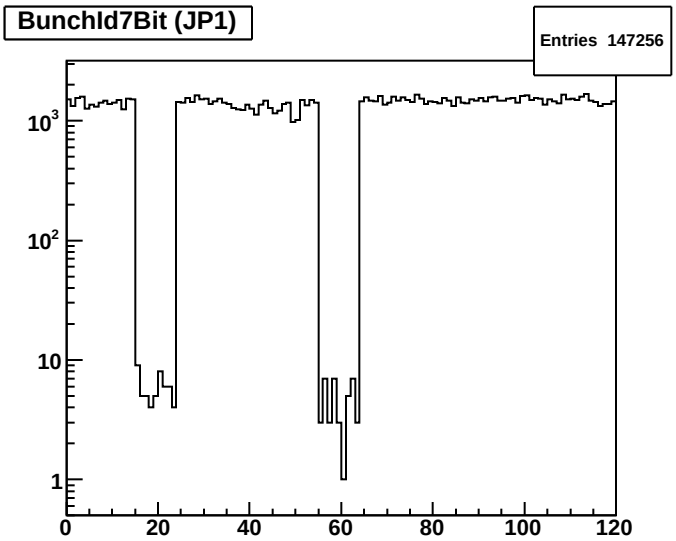

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

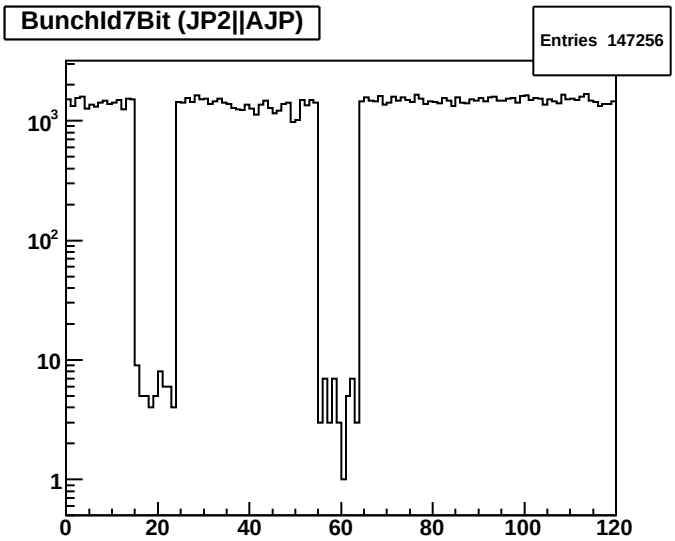

EMC L2 Input - HT23 bits
Entries 1178048
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

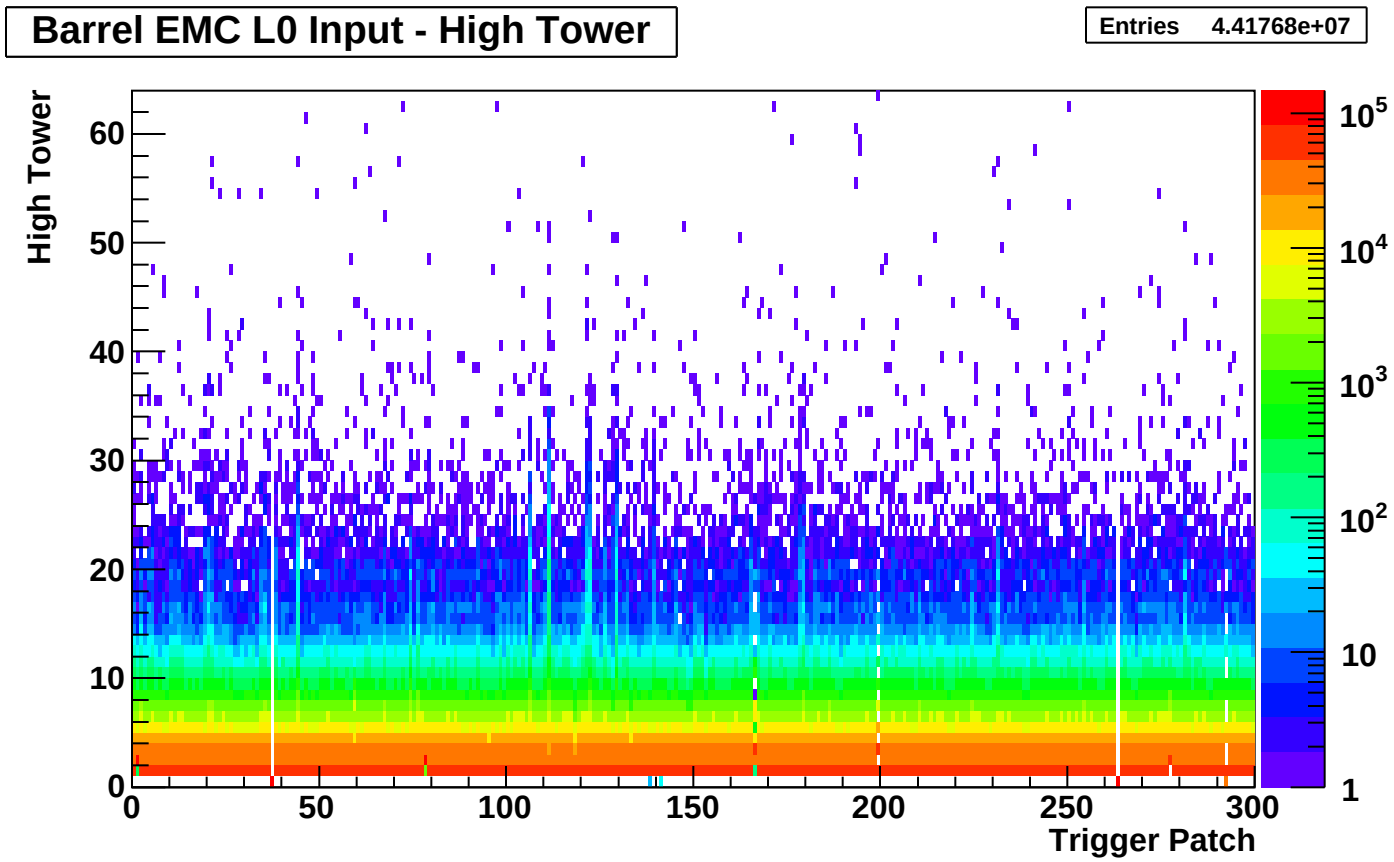

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

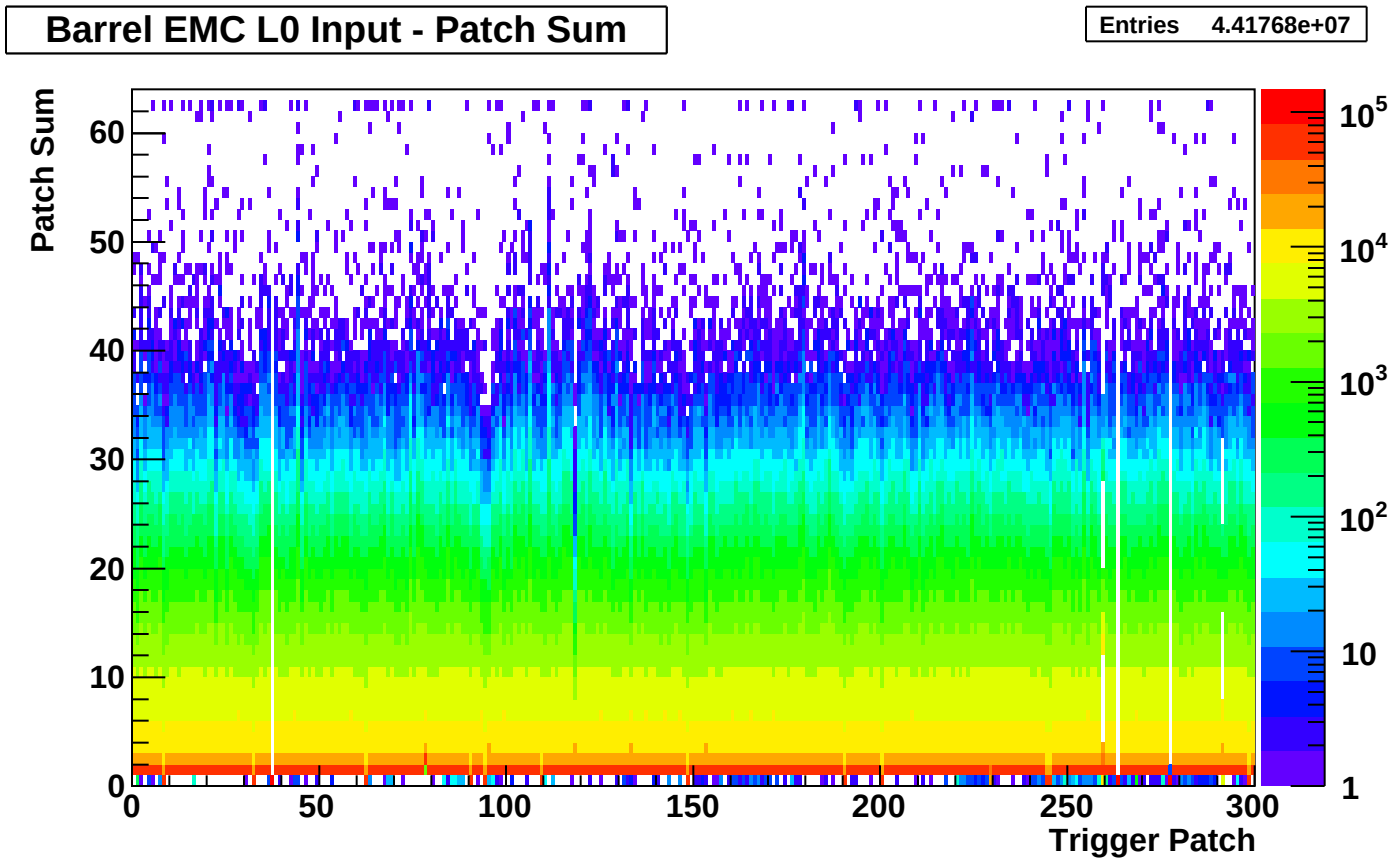

BunchId7Bit (BHT3)
Entries 1447
10
1
0
20
40
60
80
100
120

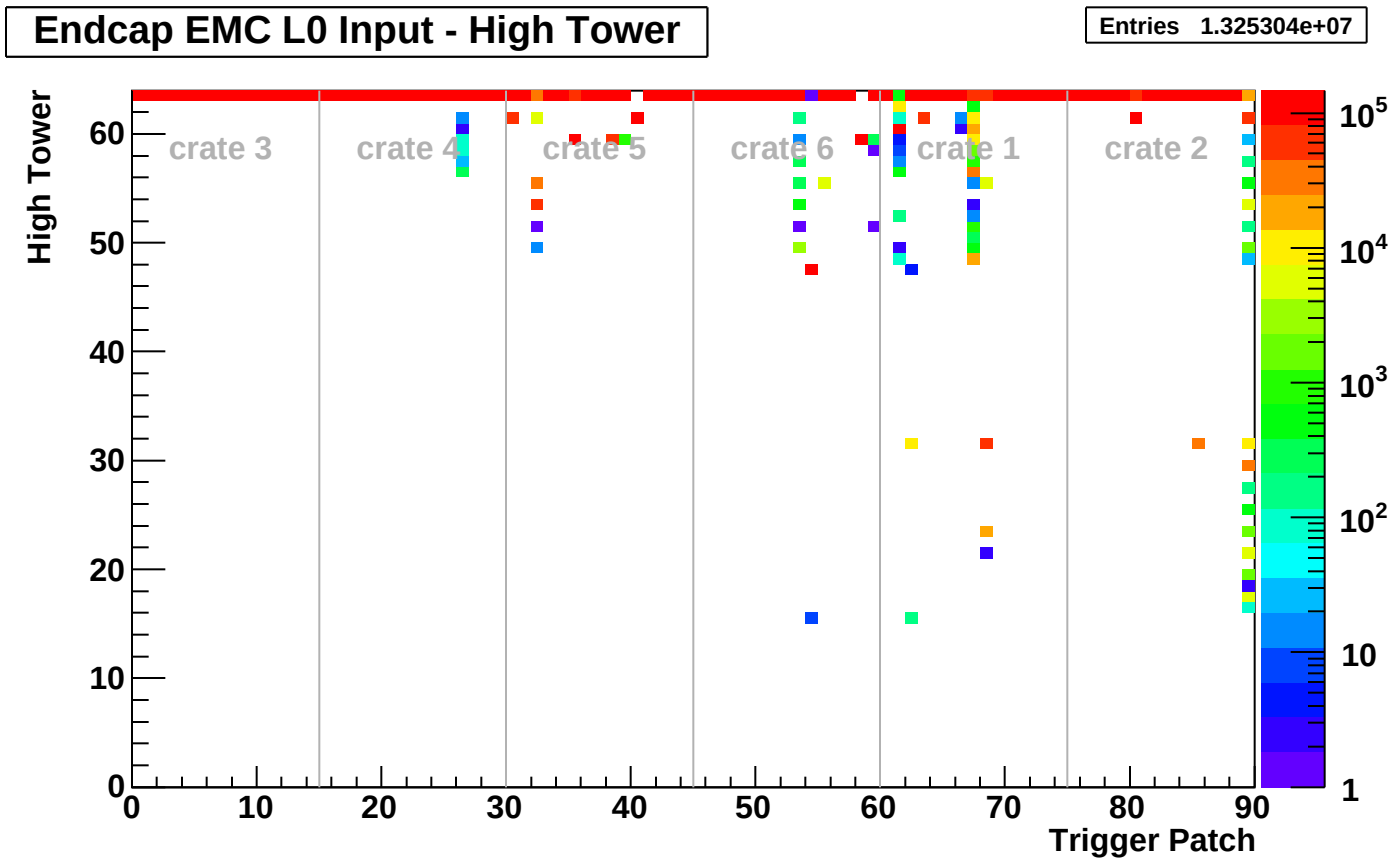

BunchId7Bit (all events)
Entries 147256
10^3
10^2
10
1
0
20
40
60
80
100
120

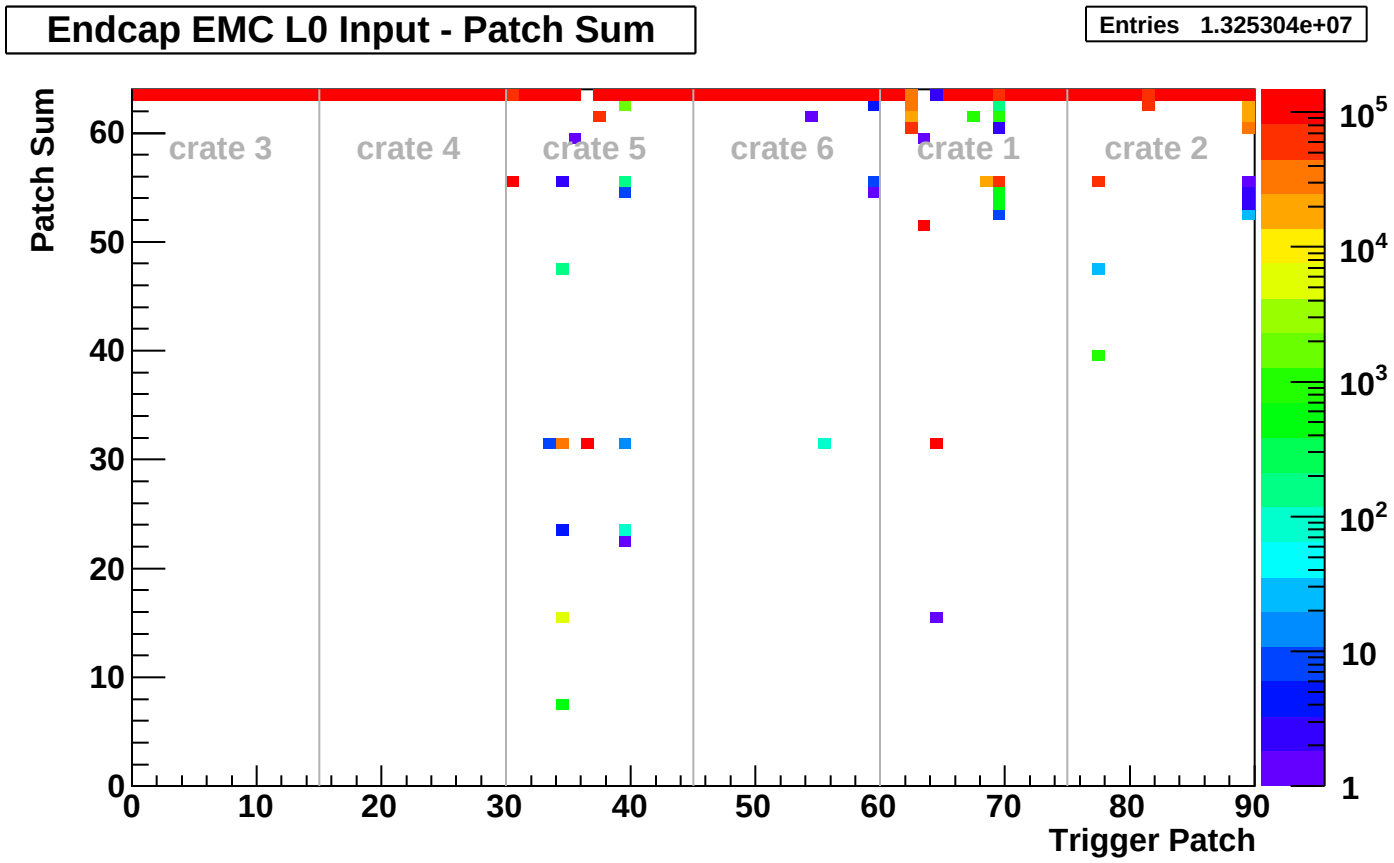

BunchId7Bit (JP1)
Entries 147256
10^3
10^2
10
1
0
20
40
60
80
100
120

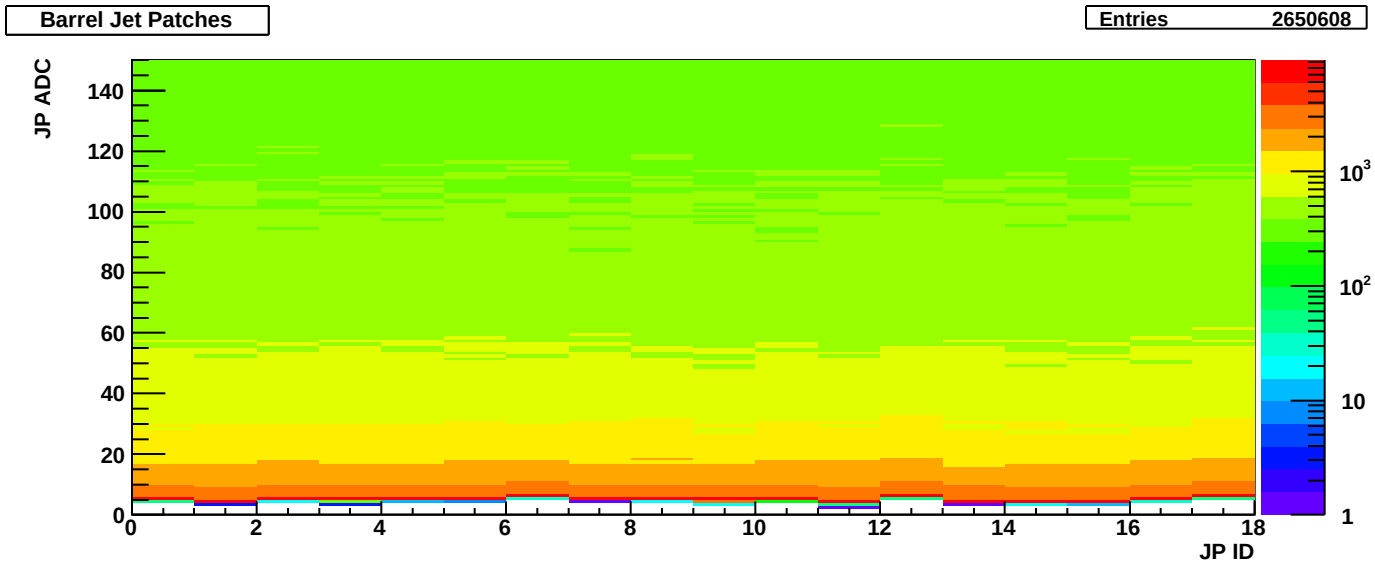

BunchId7Bit (JP2||AJP)
Entries 147256
10^3
10^2
10
1
0
20
40
60
80
100
120

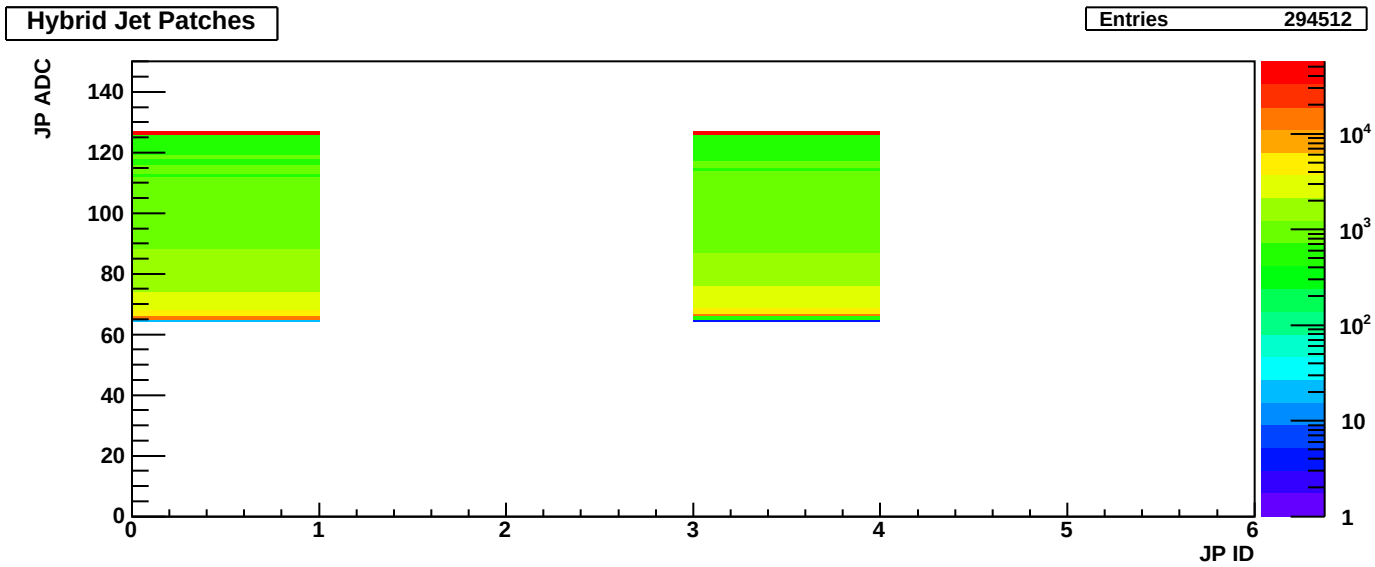

Barrel EMC L0 Input - High Tower
Entries 4.41768e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

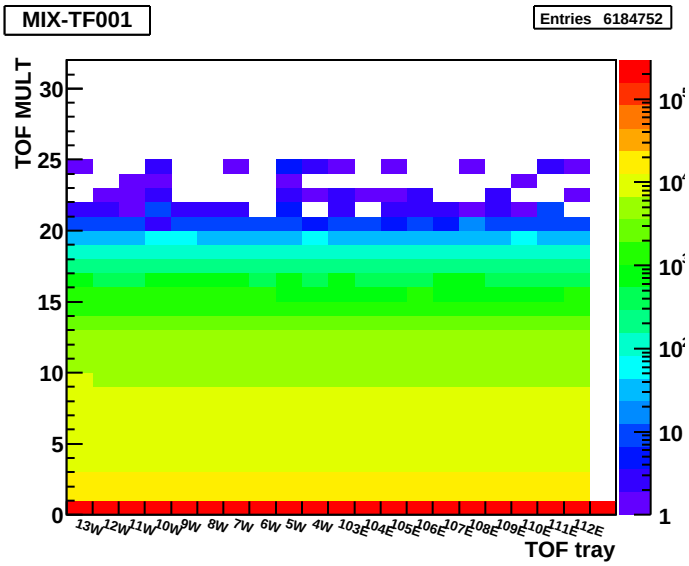

Barrel EMC L0 Input - Patch Sum
Entries 4.41768e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

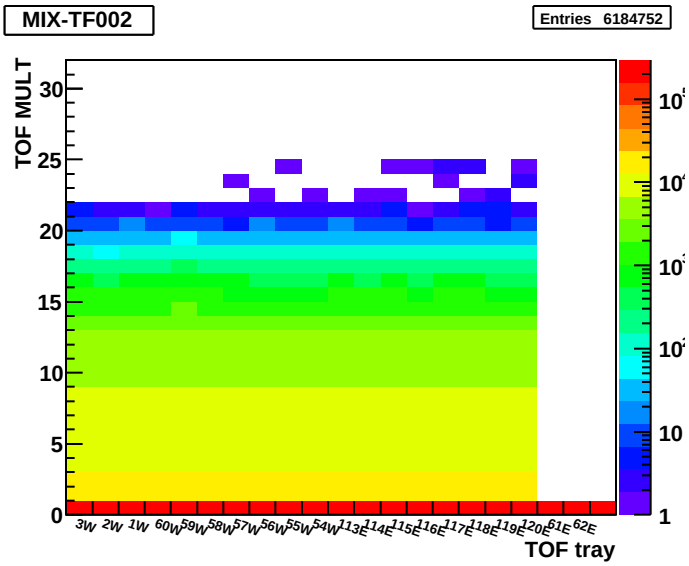

Endcap EMC L0 Input - High Tower
Entries 1.325304e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

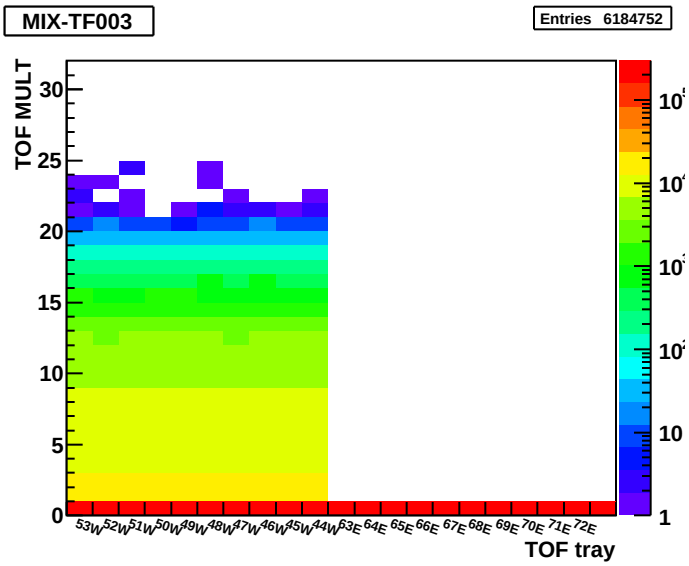

Endcap EMC L0 Input - Patch Sum
Entries 1.325304e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

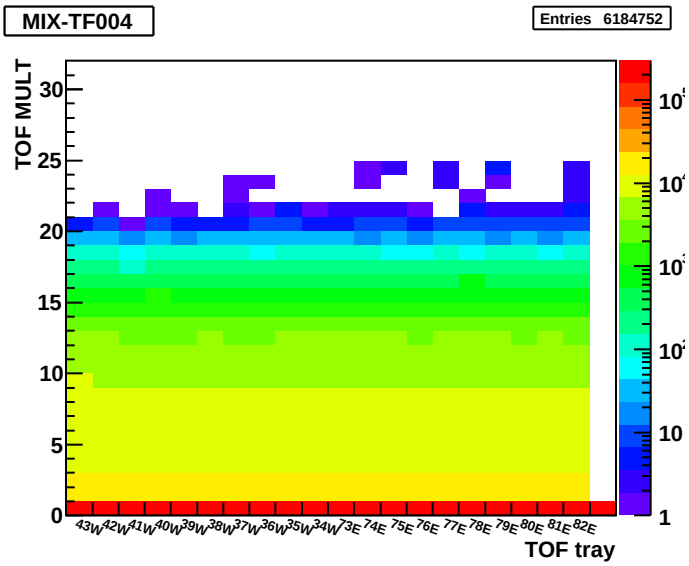

Barrel Jet Patches
Entries 2650608
JP ADC
JP ID

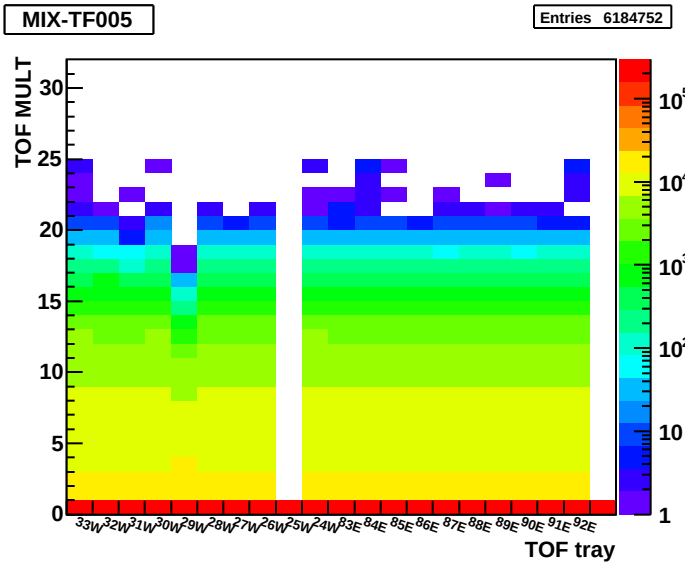

Hybrid Jet Patches
Entries 294512
JP ADC
JP ID

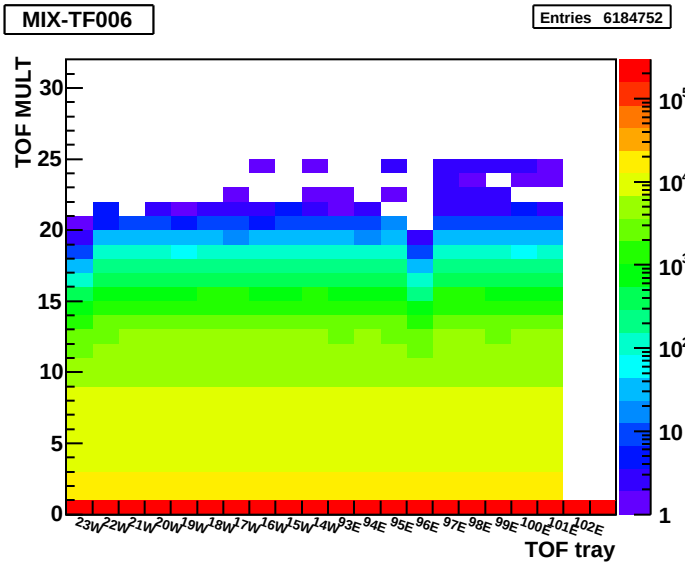

MIX-TF001
Entries 6184752
TOF MULT
TOF tray

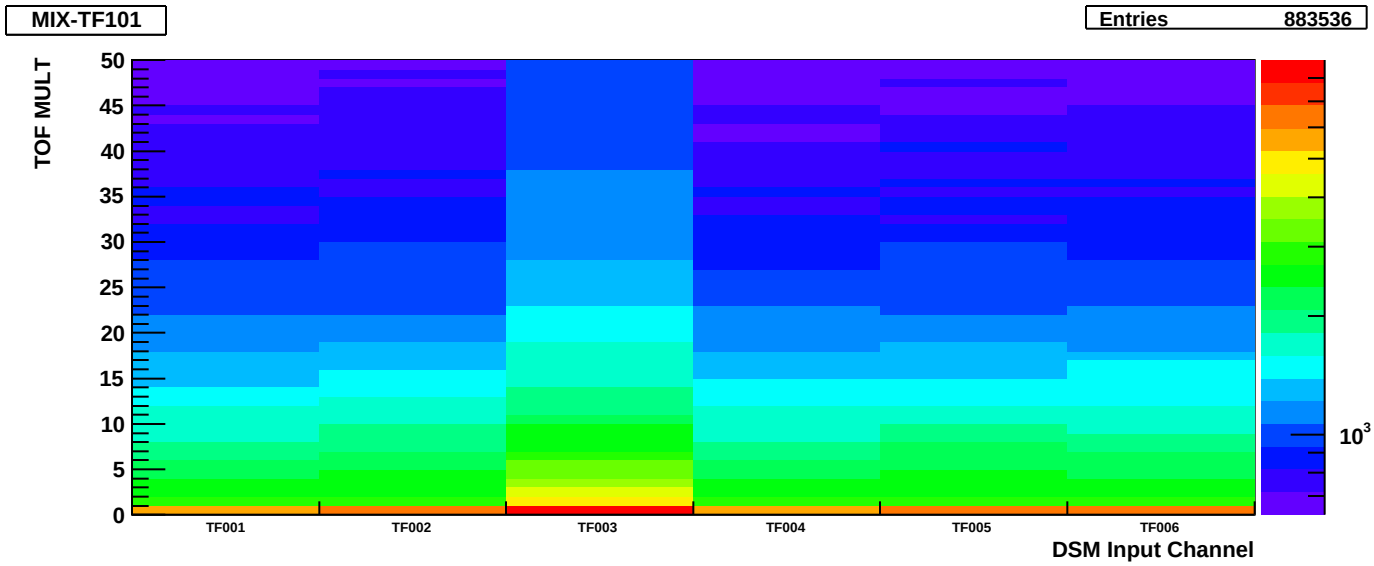

MIX-TF002
Entries 6184752
TOF MULT
TOF tray

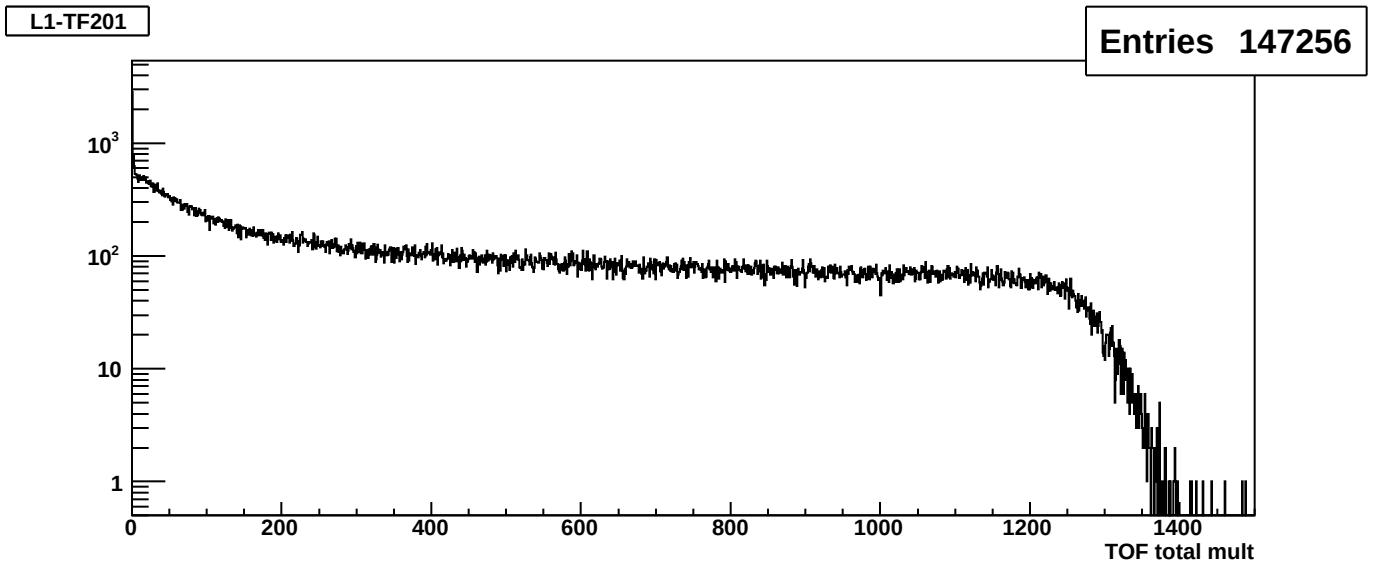

MIX-TF003
Entries 6184752
TOF MULT
TOF tray

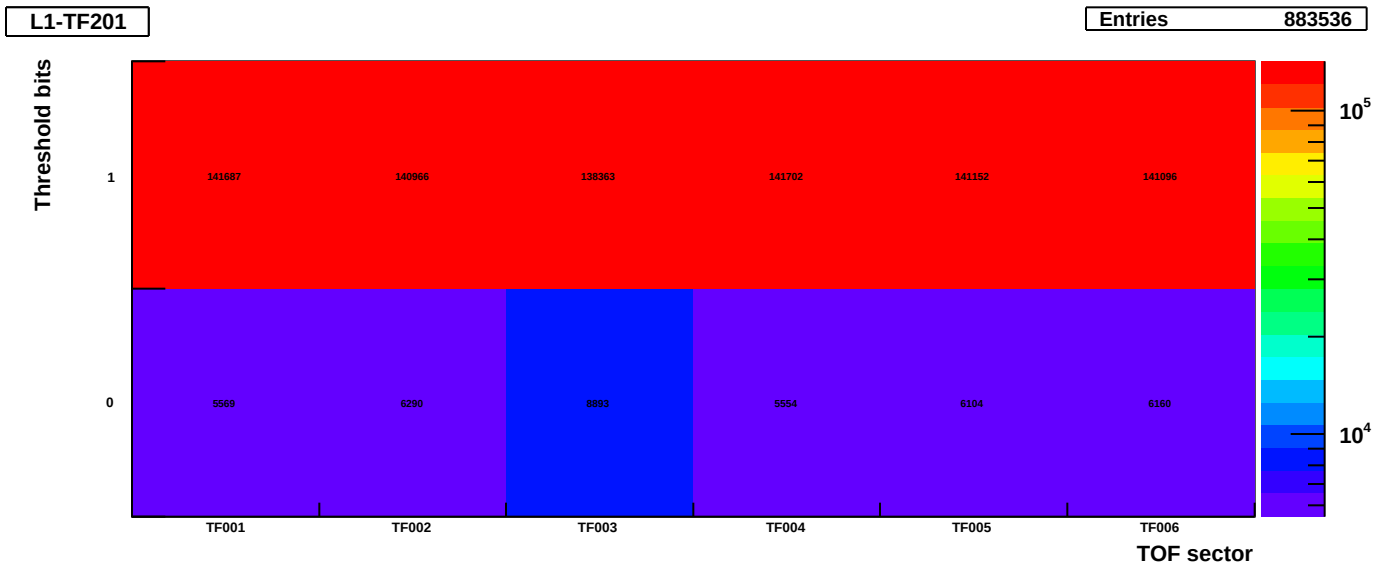

MIX-TF004
Entries 6184752
TOF MULT
TOF tray

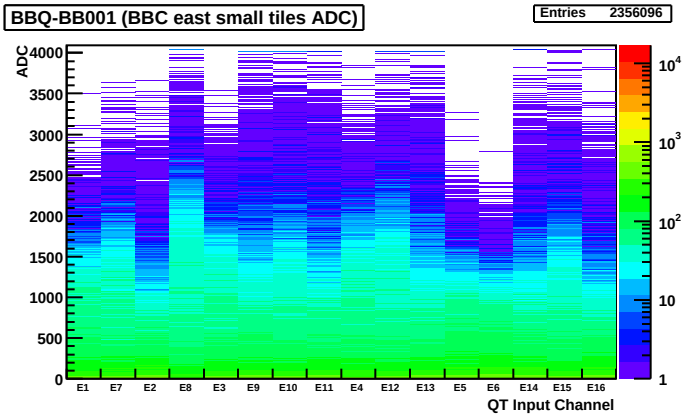

MIX-TF005
Entries 6184752
TOF MULT
TOF tray

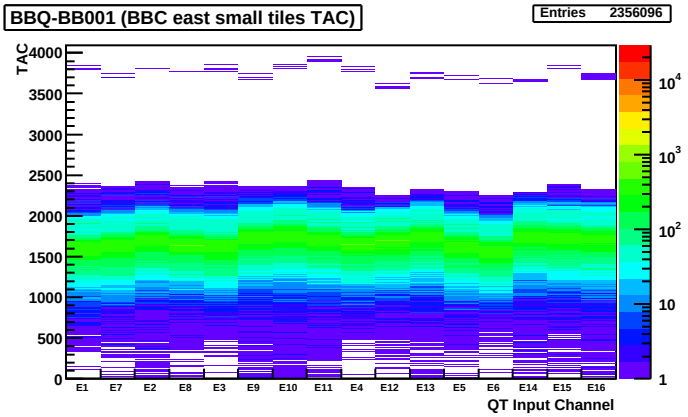

MIX-TF006
Entries 6184752
TOF MULT
TOF tray

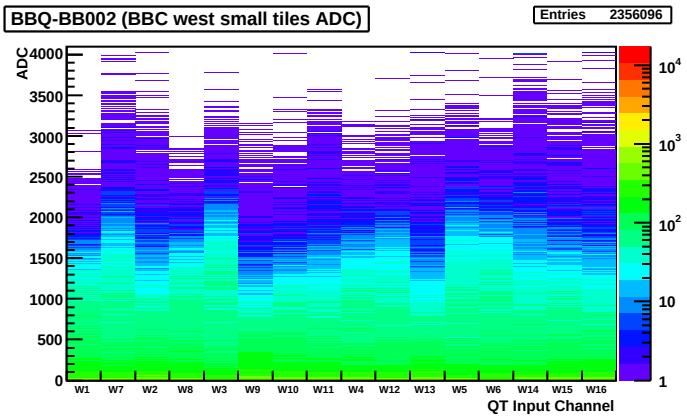

MIX-TF101
Entries 883536
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3

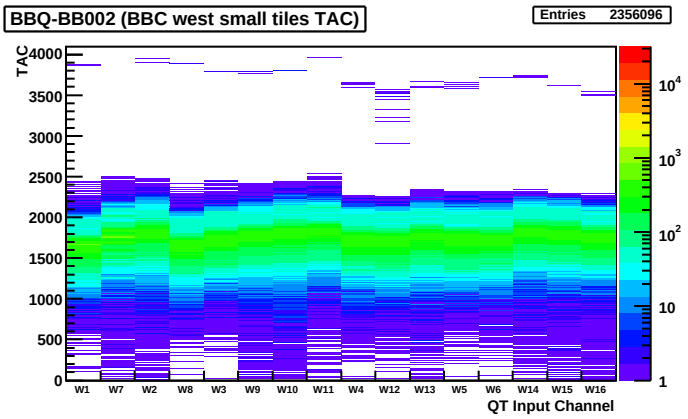

L1-TF201
Entries 147256
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

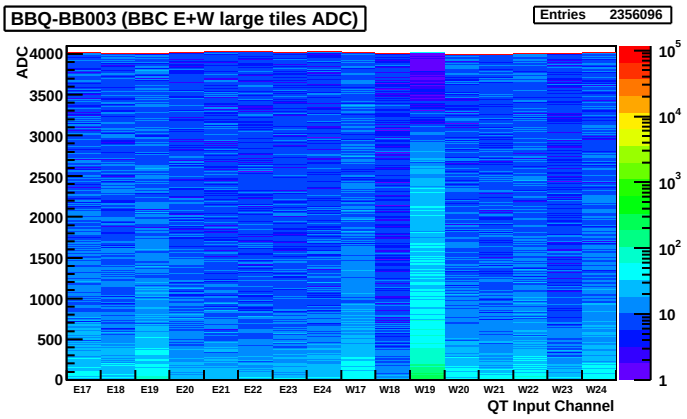

L1-TF201
Entries 883536
Threshold bits
1
0
141687
140966
138363
141702
141152
141096
5569
6290
8893
5554
6104
6160
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5
10^4

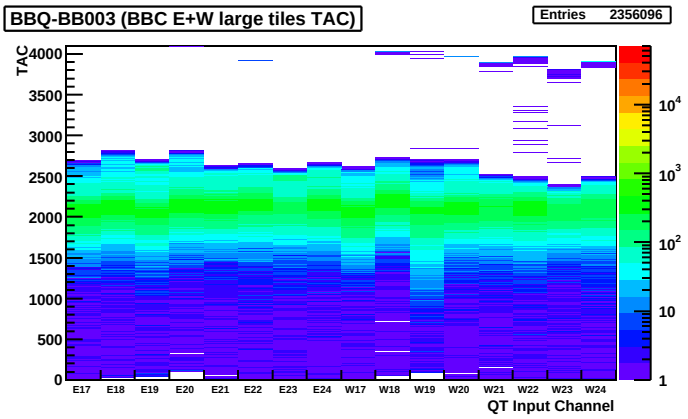

BBQ-BB001 (BBC east small tiles ADC)
Entries 2356096
ADC
QT Input Channel

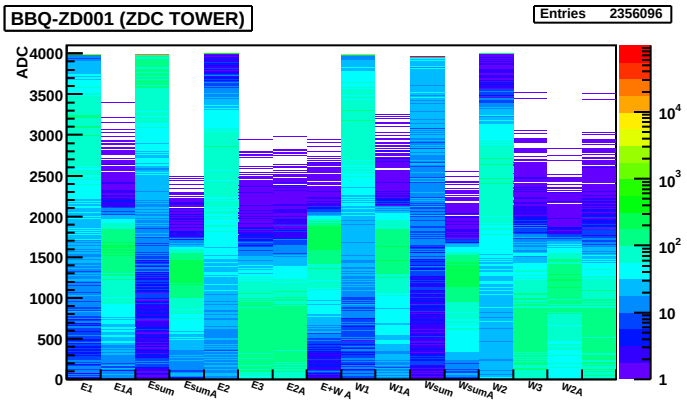

BBQ-BB001 (BBC east small tiles TAC)
Entries 2356096
TAC
QT Input Channel

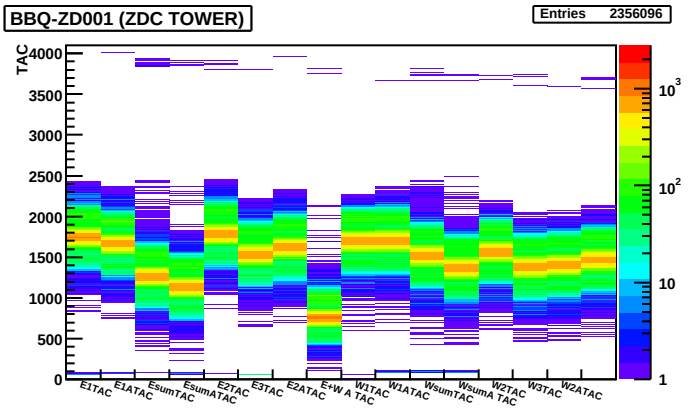

BBQ-BB002 (BBC west small tiles ADC)
Entries 2356096
ADC
QT Input Channel

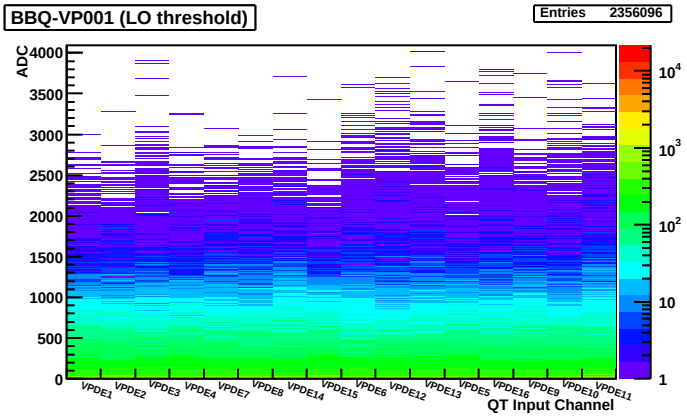

BBQ-BB002 (BBC west small tiles TAC)
Entries 2356096
TAC
QT Input Channel

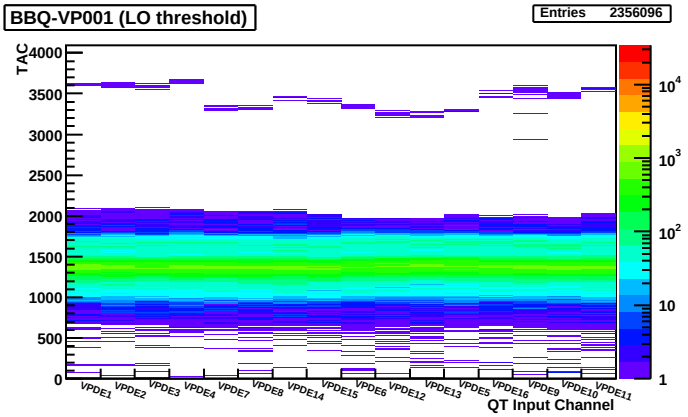

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 2356096
ADC
QT Input Channel

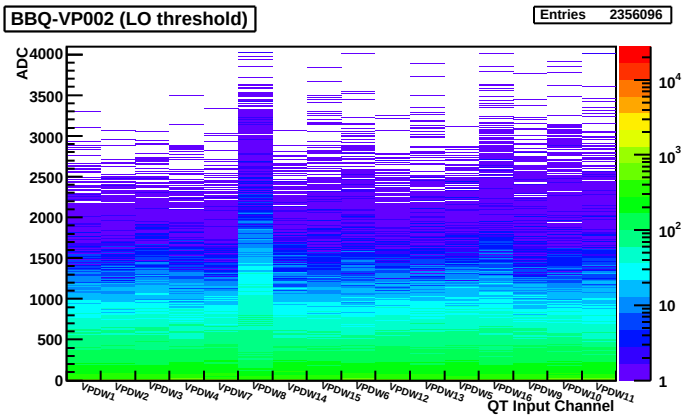

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 2356096
TAC
QT Input Channel

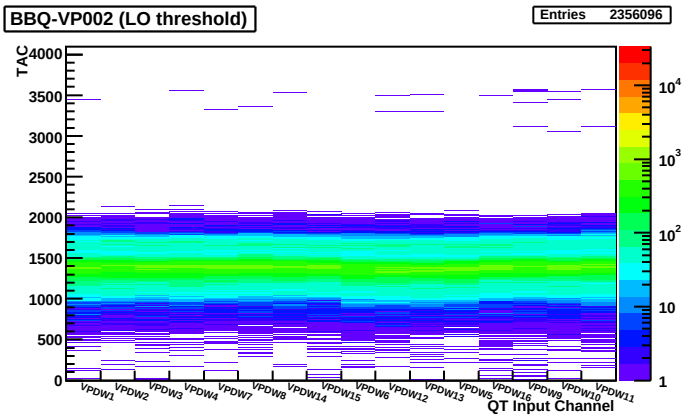

BBQ-ZD001 (ZDC TOWER)
Entries 2356096
ADC

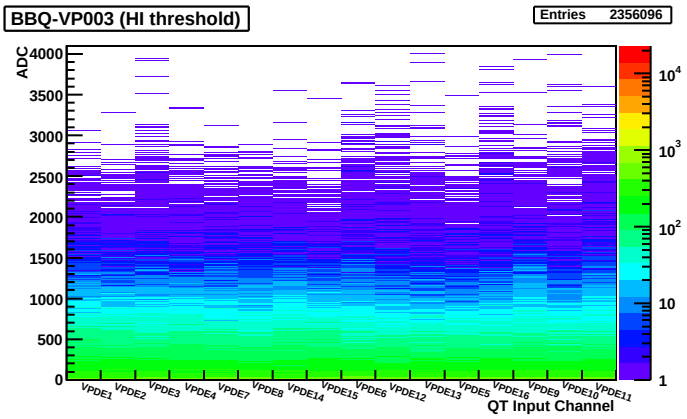

BBQ-ZD001 (ZDC TOWER)
Entries 2356096
TAC

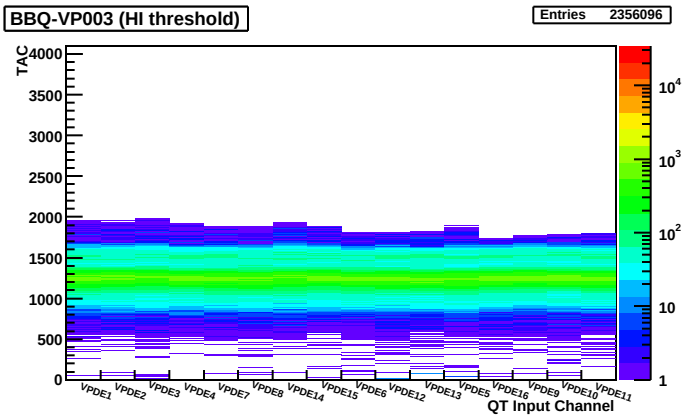

BBQ-VP001 (LO threshold)
Entries 2356096
ADC
QT Input Channel

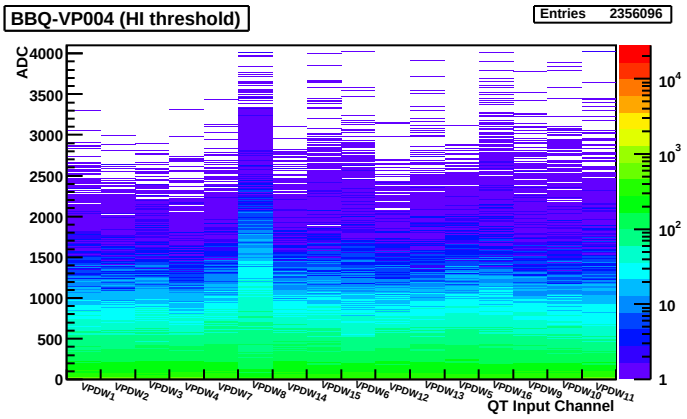

BBQ-VP001 (LO threshold)
Entries 2356096
TAC
QT Input Channel

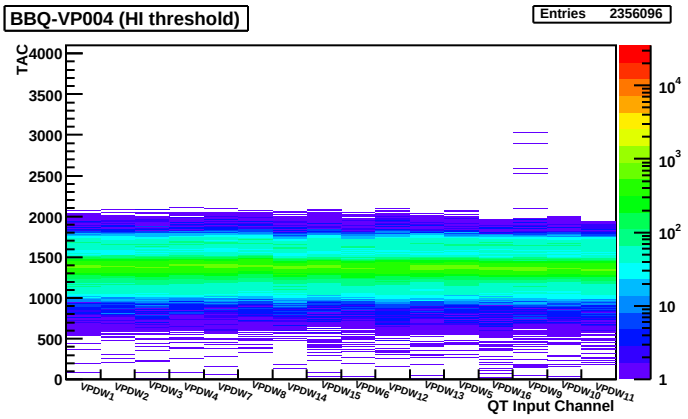

BBQ-VP002 (LO threshold)
Entries 2356096
ADC
QT Input Channel

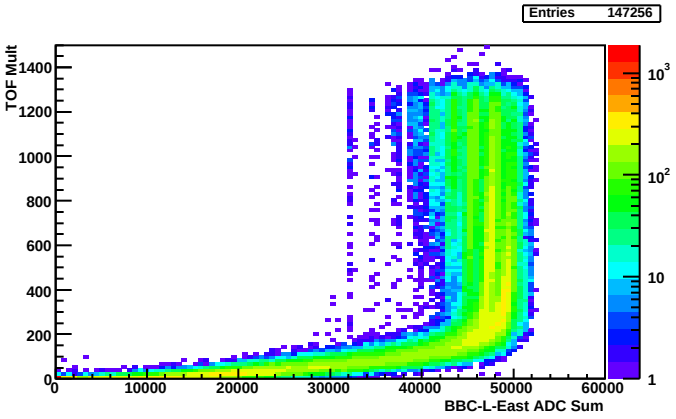

BBQ-VP002 (LO threshold)
Entries 2356096
TAC
QT Input Channel

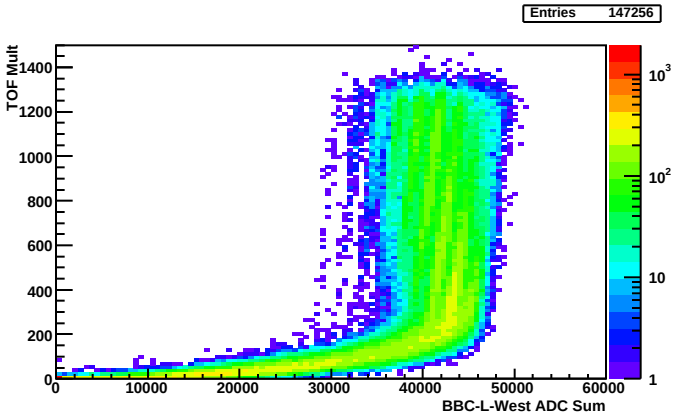

BBQ-VP003 (HI threshold)
Entries 2356096
ADC
QT Input Channel

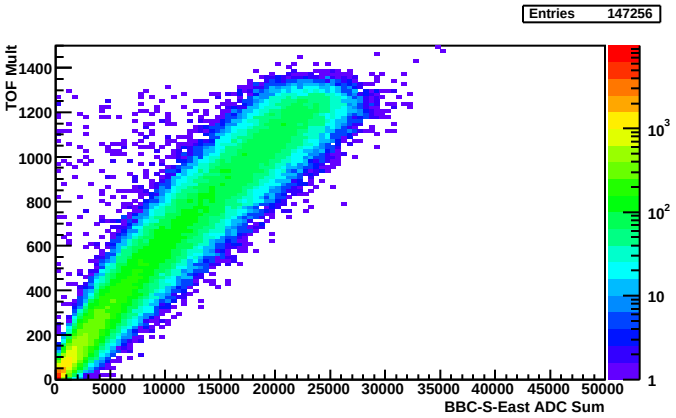

BBQ-VP003 (HI threshold)
Entries 2356096
TAC
QT Input Channel

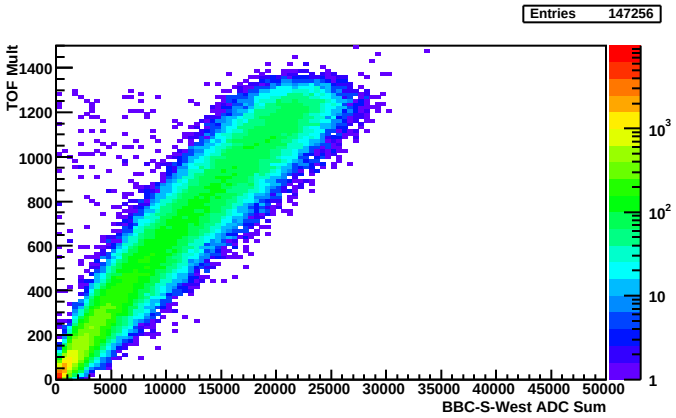

BBQ-VP004 (HI threshold)
Entries 2356096
ADC
QT Input Channel

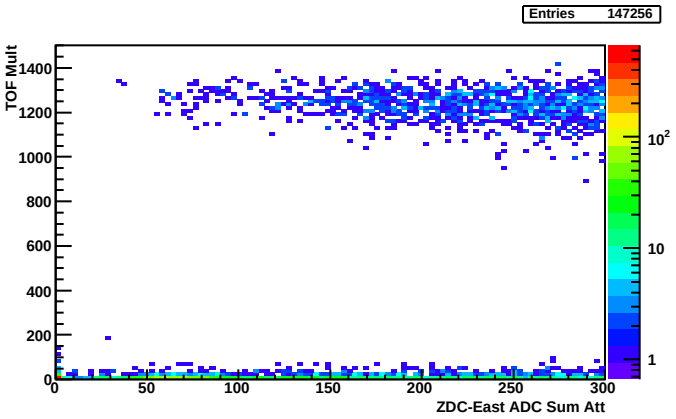

BBQ-VP004 (HI threshold)
Entries 2356096
TAC
QT Input Channel

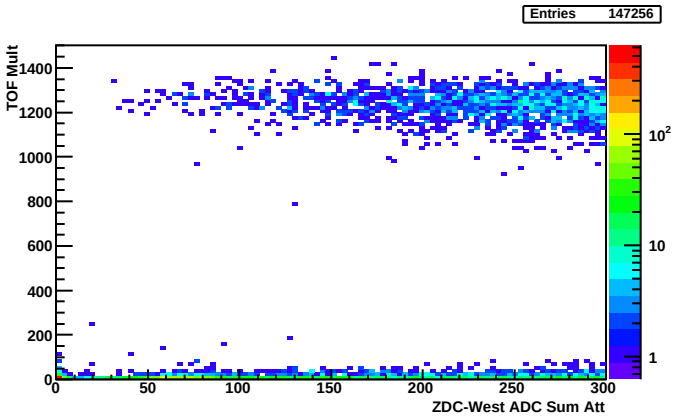

Entries 147256
TOF Mult
BBC-L-East ADC Sum

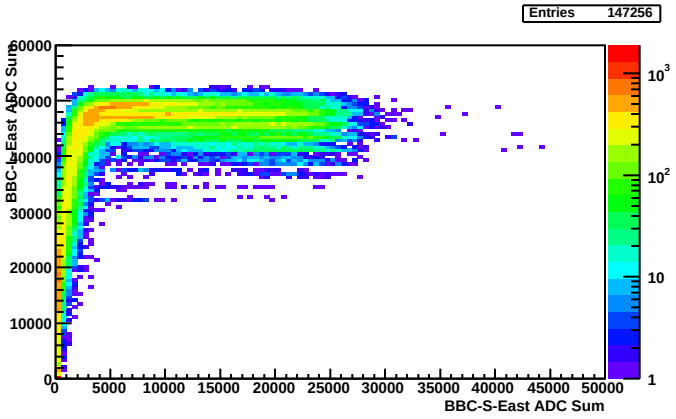

Entries 147256
TOF Mult
BBC-L-West ADC Sum

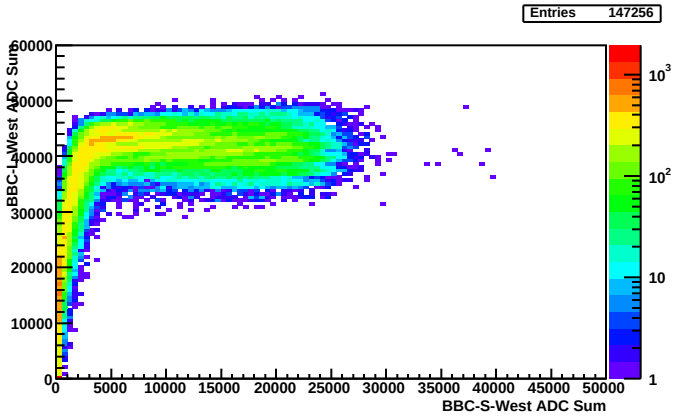

Entries 147256
TOF Mult
BBC-S-East ADC Sum


Entries 147256
TOF Mult
BBC-S-West ADC Sum


Entries 147256
TOF Mult
ZDC-East ADC Sum Att


Entries 147256
TOF Mult
ZDC-West ADC Sum Att


Entries 147256
BBC-L-East ADC Sum
BBC-S-East ADC Sum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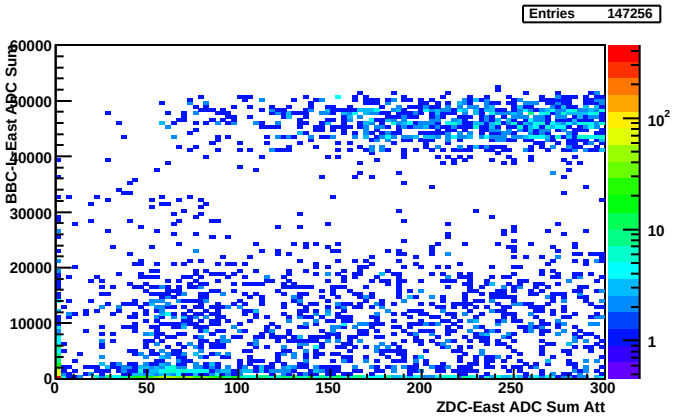
BBC-L-West ADC Sum
BBC-S-West ADC Sum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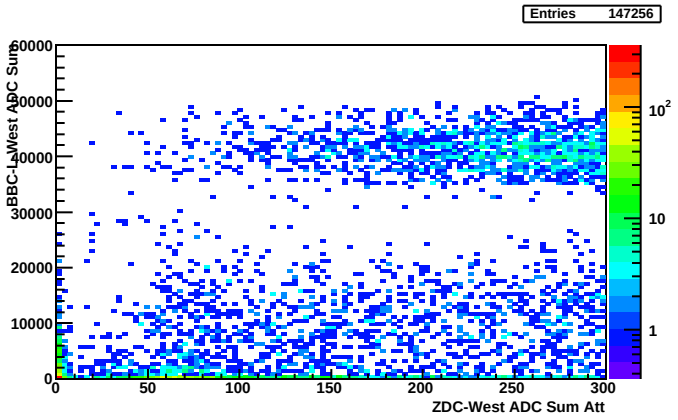
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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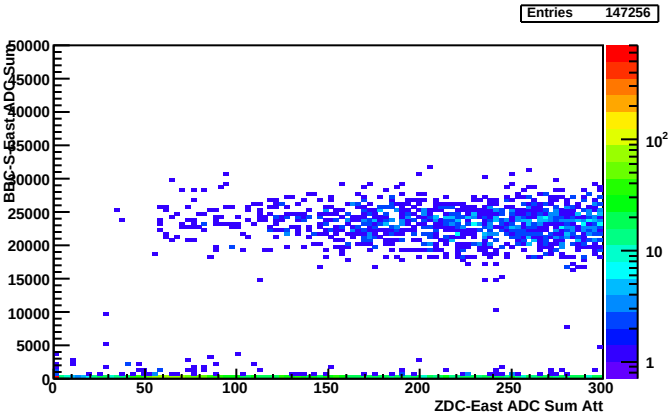
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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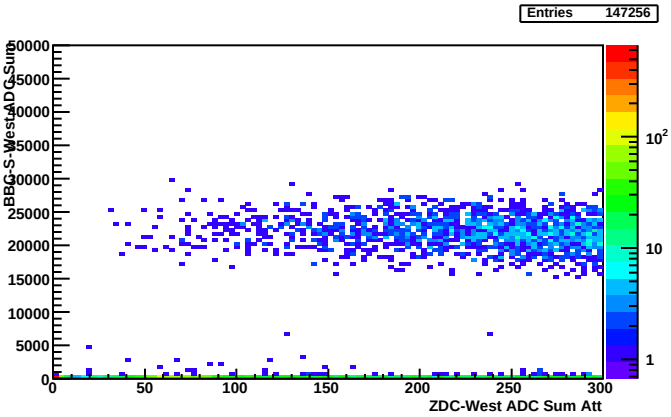
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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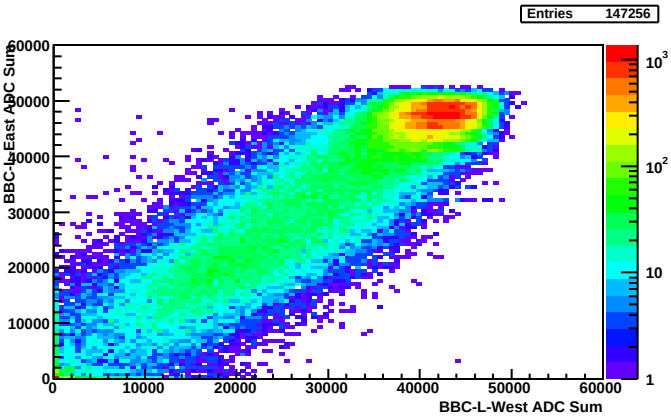
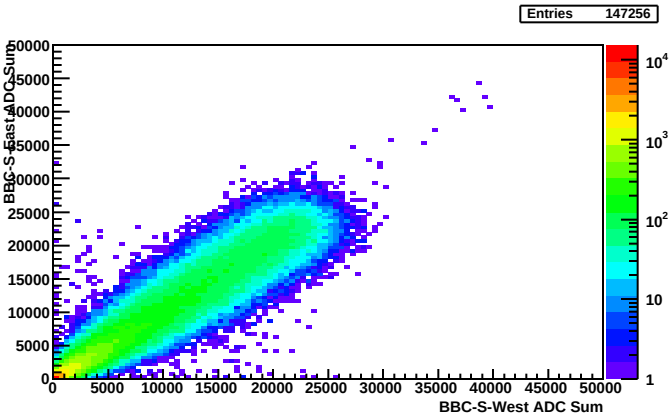
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 147256
BBC-L-East ADC Sum
BBC-L-West ADC Sum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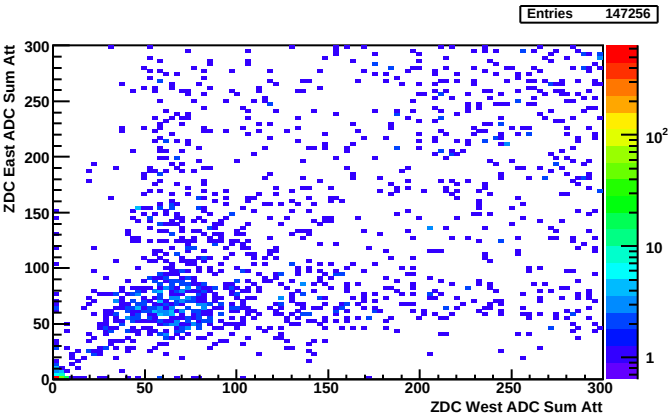
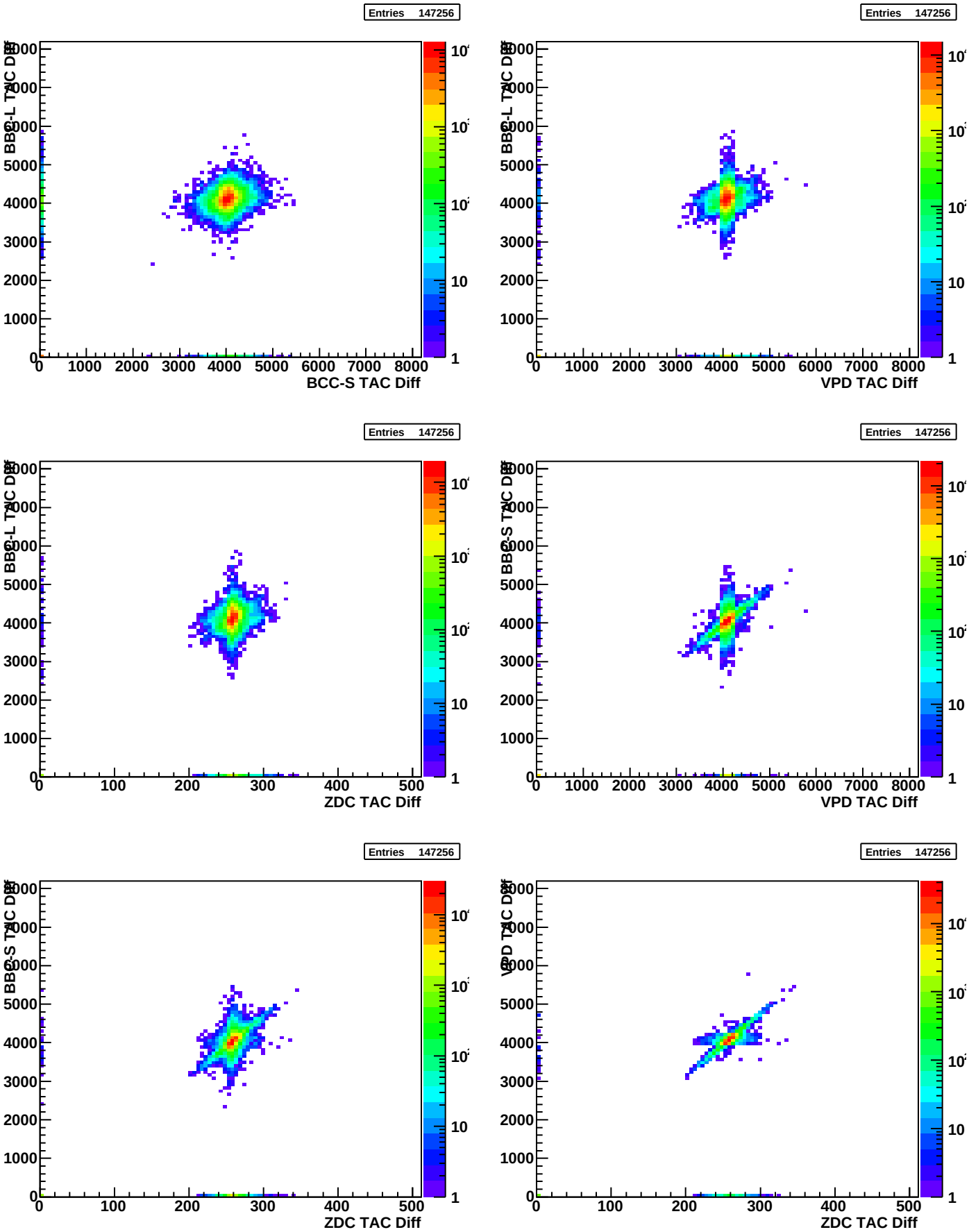
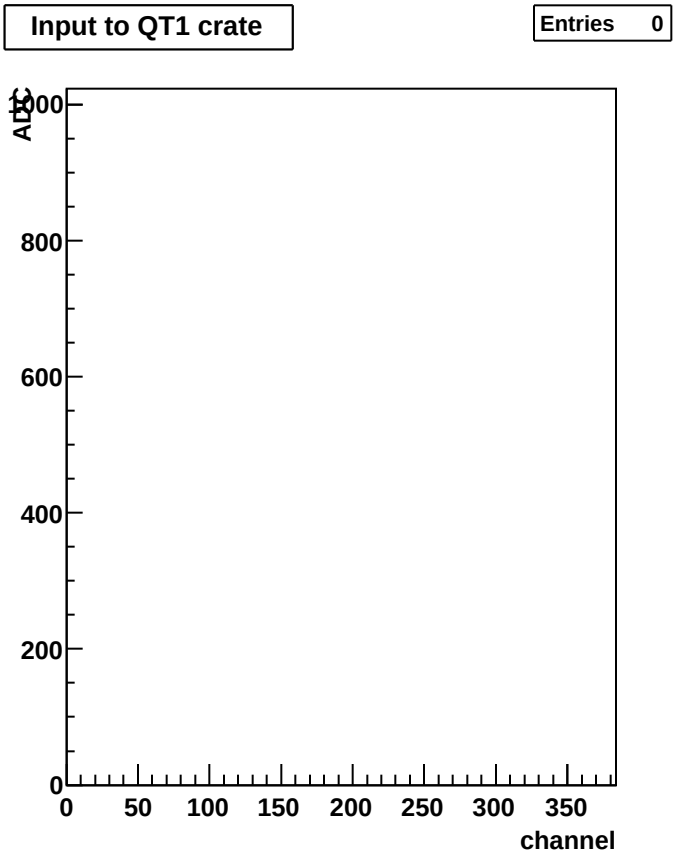
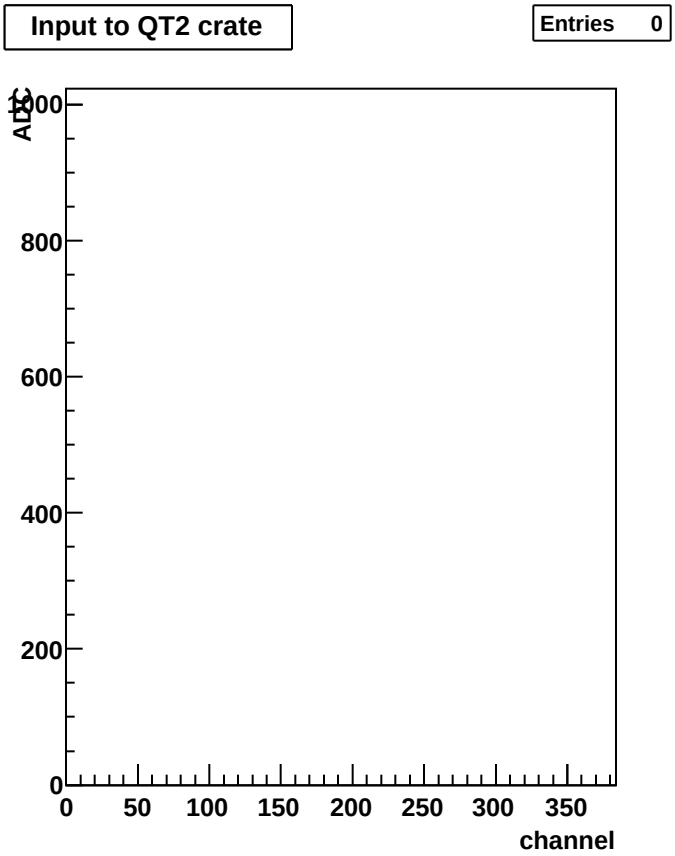
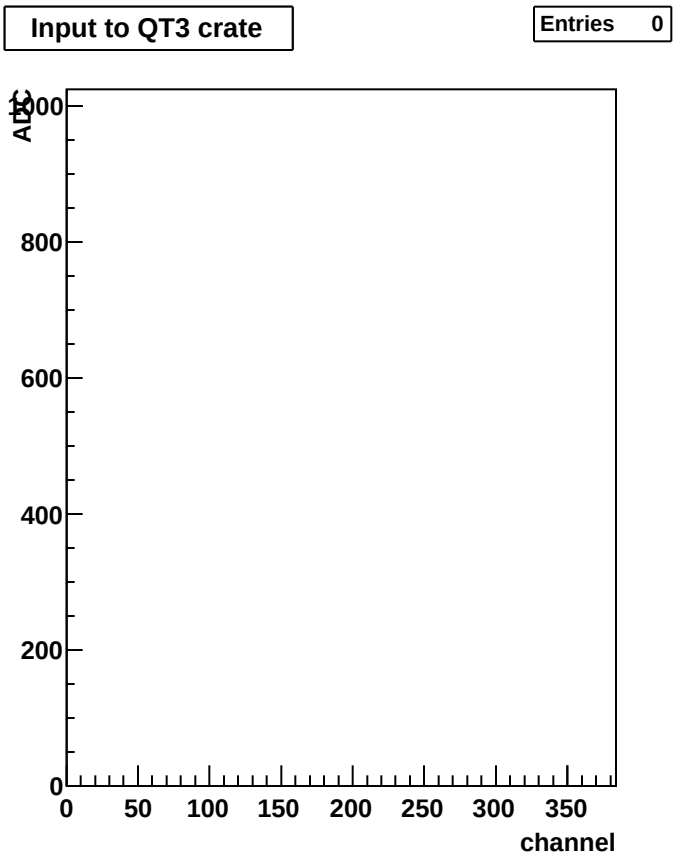
BBC-S-East ADC Sum
BBC-S-West ADC Sum

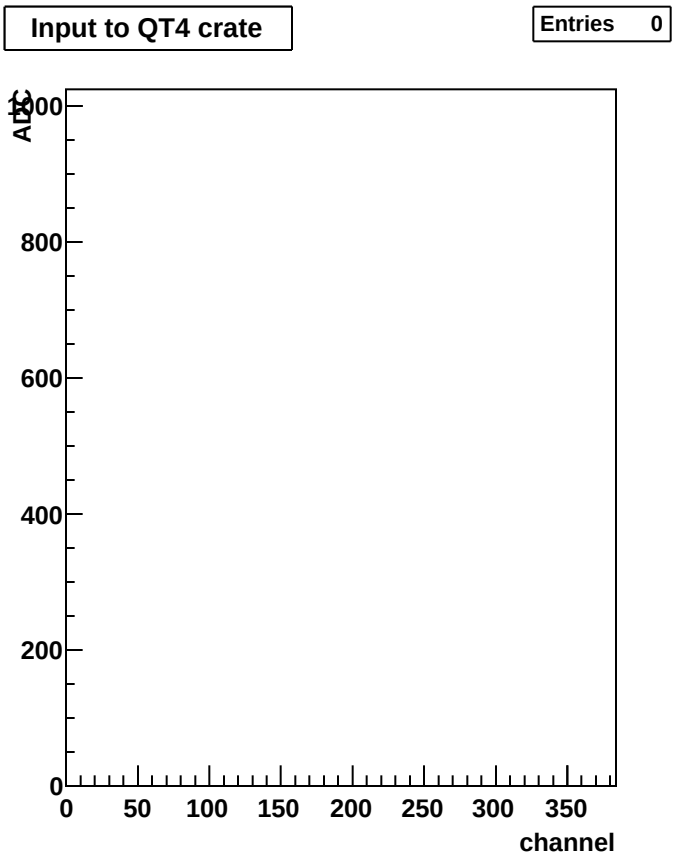

Entries 147256
ZDC East ADC Sum Att
ZDC West ADC Sum Att

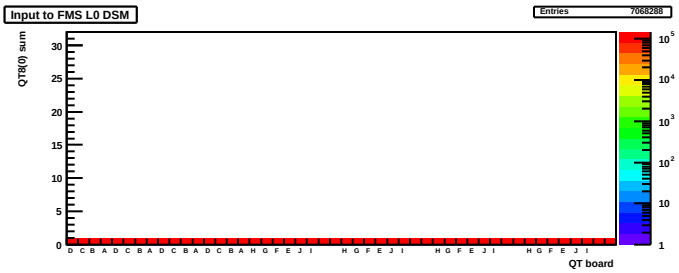

Entries 147256
BBC-L TAC Diff
BCC-S TAC Diff
Entries 147256
BBC-L TAC Diff
VPD TAC Diff
Entries 147256
BBC-L TAC Diff
ZDC TAC Diff
Entries 147256
BBC-S TAC Diff
VPD TAC Diff
Entries 147256
BBC-S TAC Diff
ZDC TAC Diff
Entries 147256
VPD TAC Diff
ZDC TAC Diff

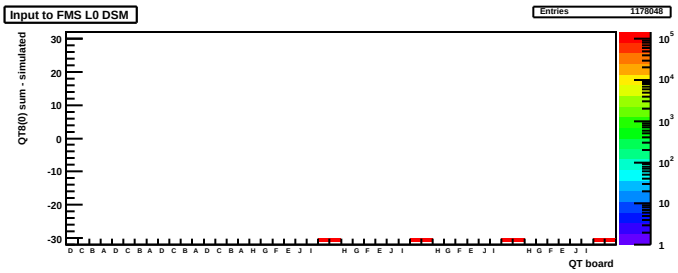

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

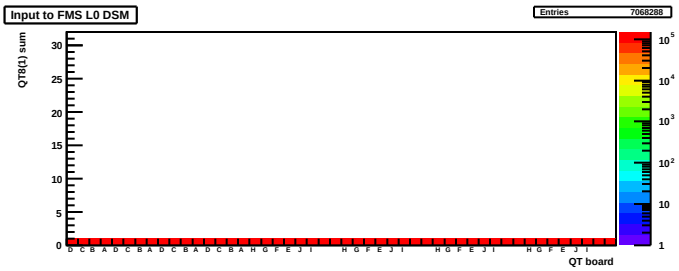

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

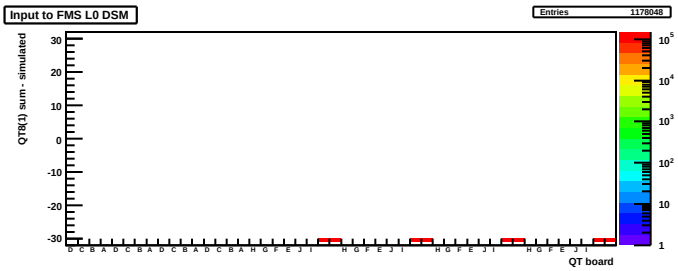

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

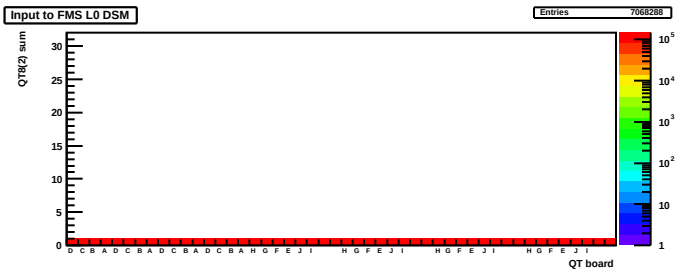

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

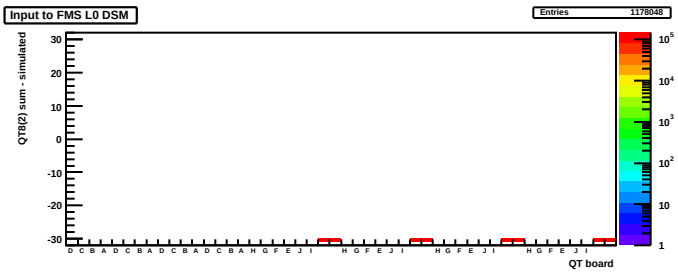

Input to FMS L0 DSM
Entries 7068288
QT8(0) sum
QT board

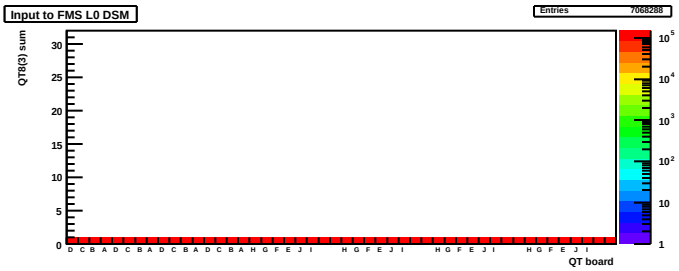

Input to FMS L0 DSM
Entries 1178048
QT8(0) sum - simulated
QT board

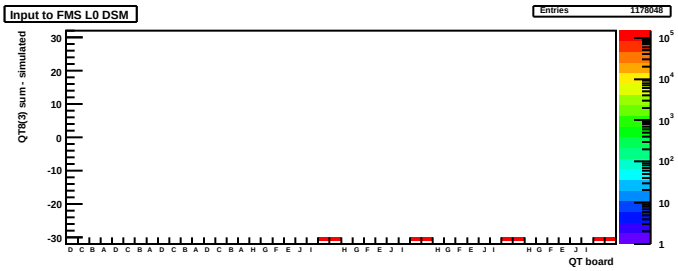

Input to FMS L0 DSM
Entries 7068288
QT8(1) sum
QT board

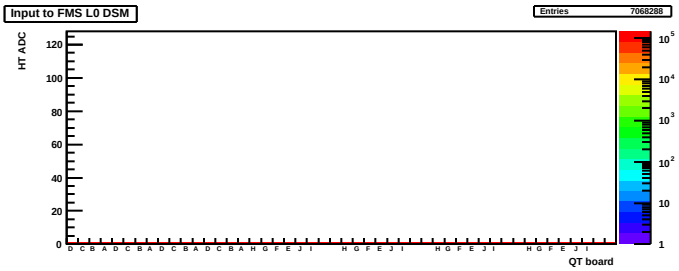

Input to FMS L0 DSM
Entries 1178048
QT8(1) sum - simulated
QT board

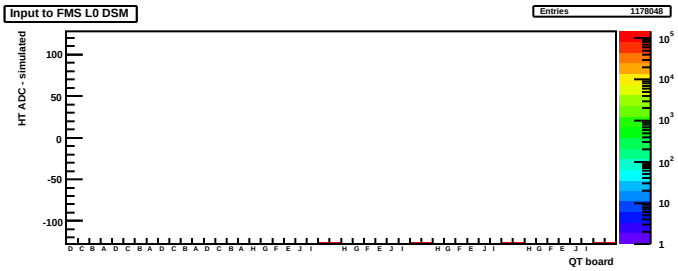

Input to FMS L0 DSM
Entries 7068288
QT8(2) sum
QT board

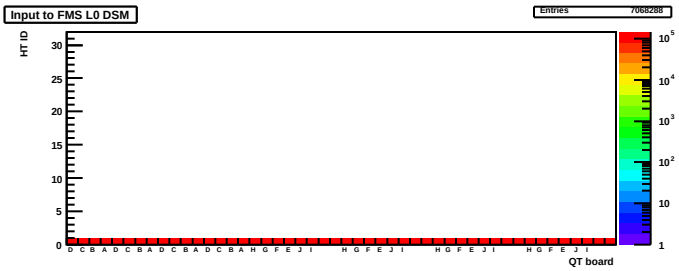

Input to FMS L0 DSM
Entries 1178048
QT8(2) sum - simulated
QT board

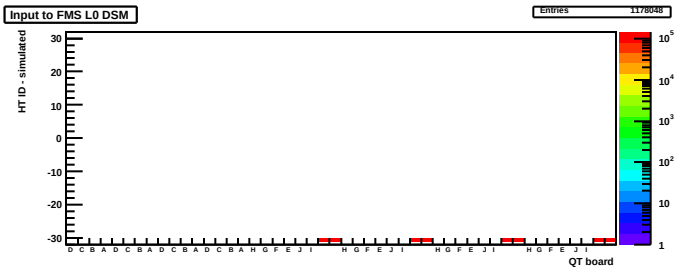

Input to FMS L0 DSM
Entries 7068288
QT8(3) sum
QT board

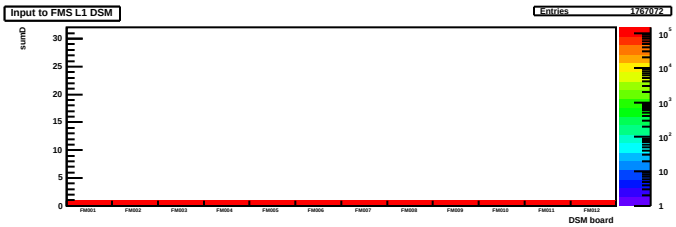

Input to FMS L0 DSM
Entries 1178048
QT8(3) sum - simulated
QT board

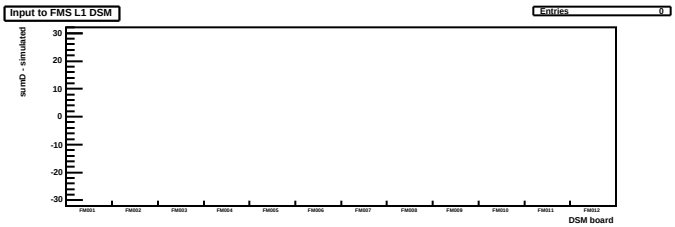

Input to FMS L0 DSM
Entries 7068288
HT ADC
QT board

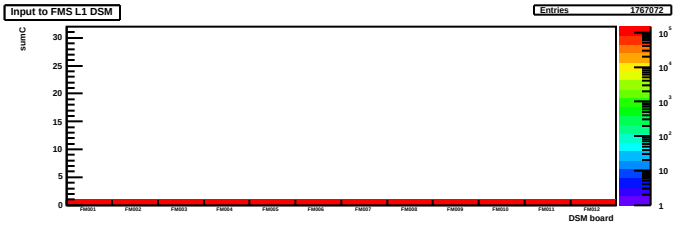

Input to FMS L0 DSM
Entries 1178048
HT ADC - simulated
QT board

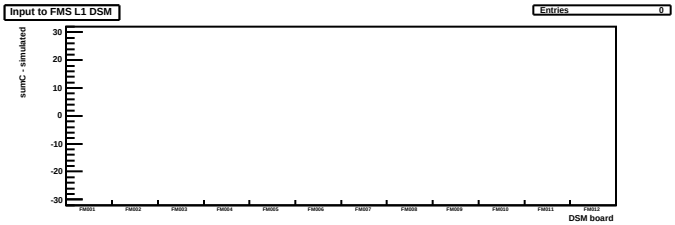

Input to FMS L0 DSM
Entries 7068288
HT ID
QT board

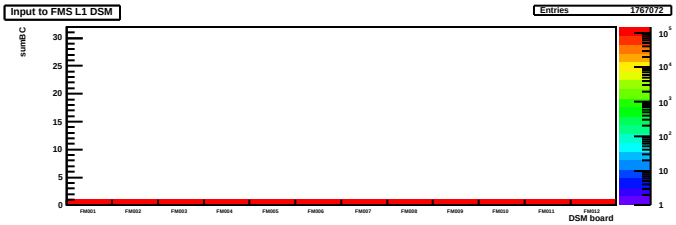

Input to FMS L0 DSM
Entries 1178048
HT ID - simulated
QT board

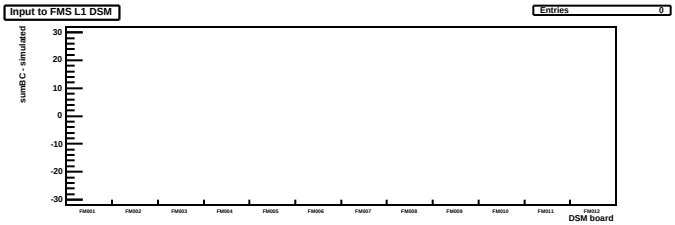

Input to FMS L1 DSM
Entries 1767072
sumD
DSM board

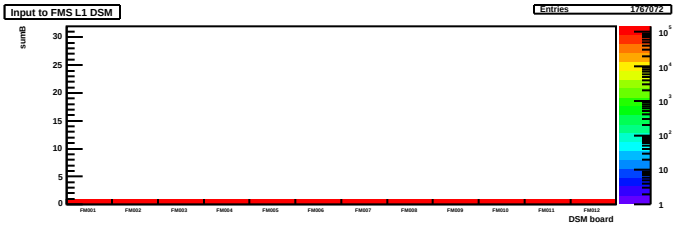

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

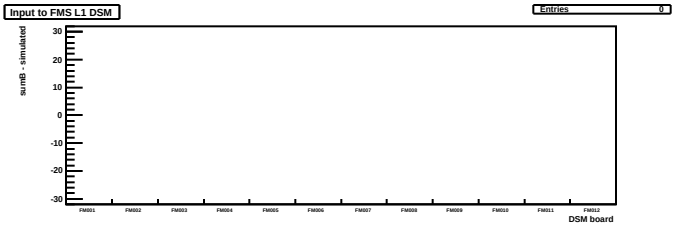

Input to FMS L1 DSM
Entries 1767072
sumC
DSM board

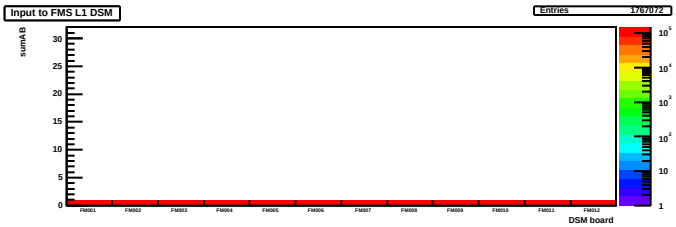

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

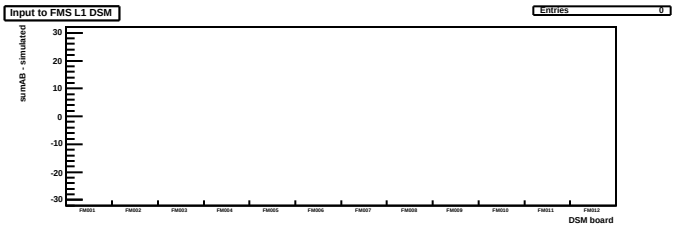

Input to FMS L1 DSM
Entries 1767072
sumBC
DSM board

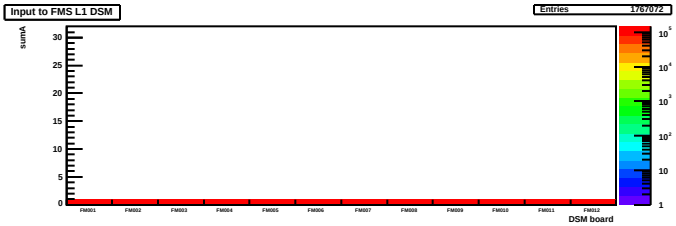

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

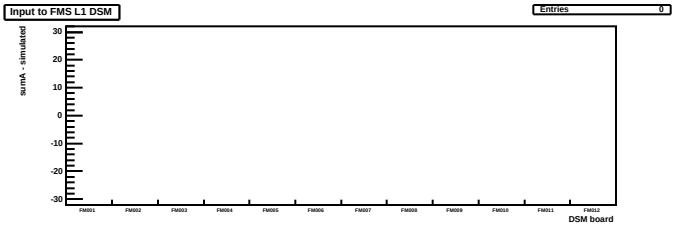

Input to FMS L1 DSM
Entries 1767072
sumB
DSM board

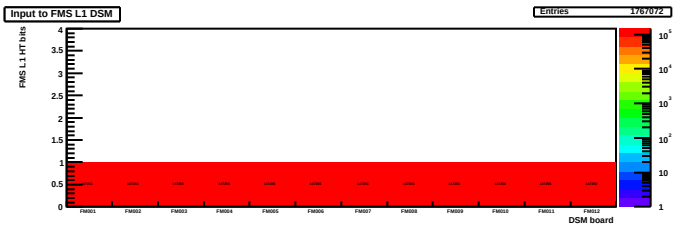

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

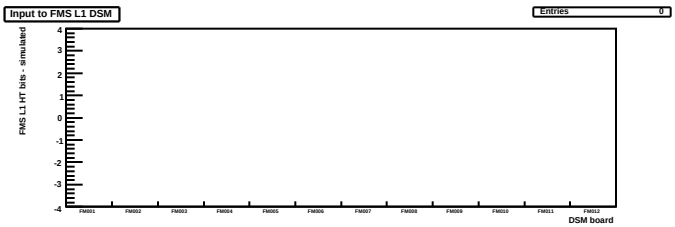

Input to FMS L1 DSM
Entries 1767072
sumAB
DSM board

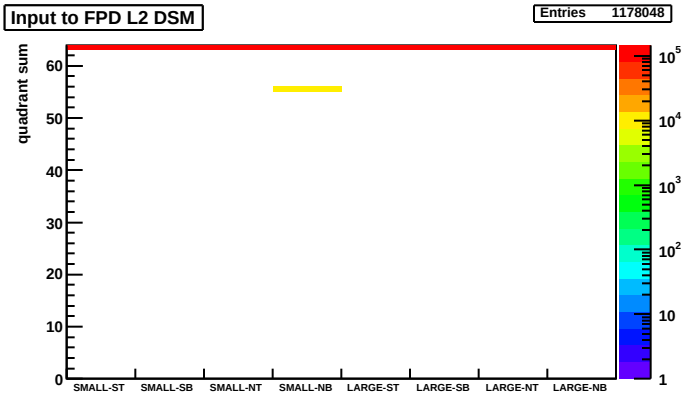

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

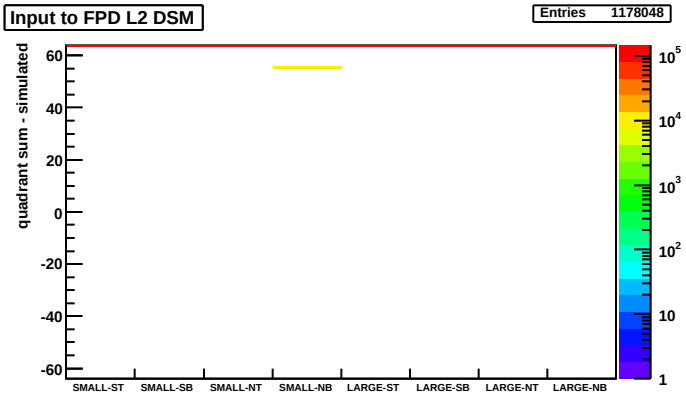

Input to FMS L1 DSM
Entries 1767072
sumA
DSM board

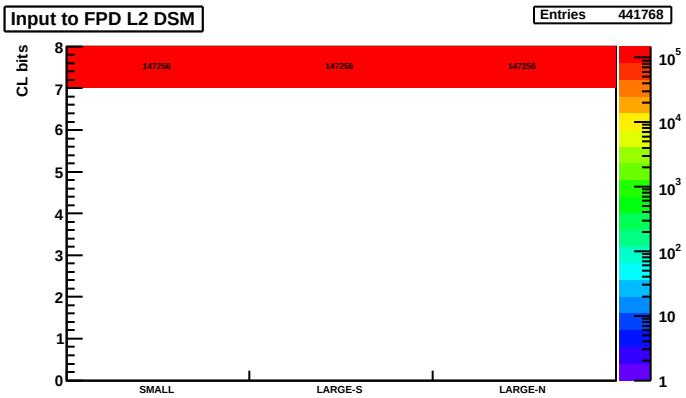

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

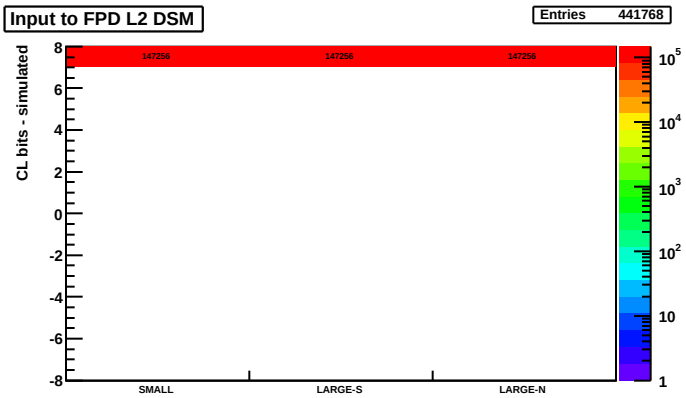

Input to FMS L1 DSM
Entries 1767072
FMS L1 HT bits
DSM board

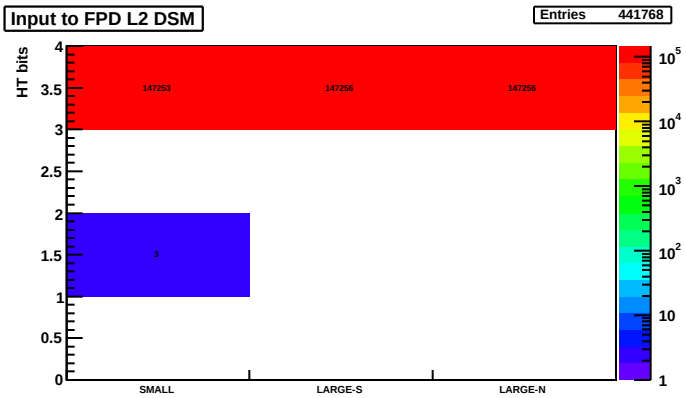

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

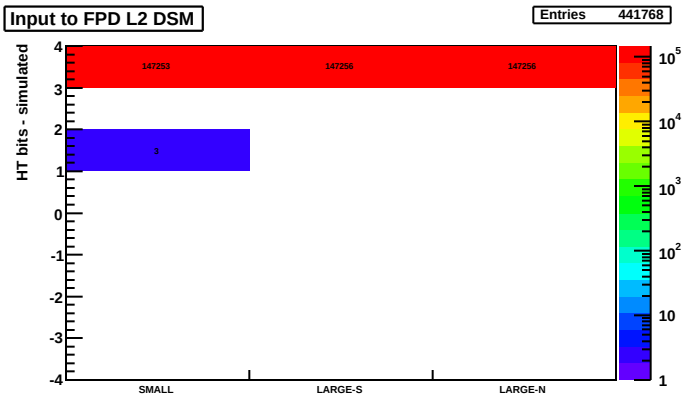

Input to FPD L2 DSM
Entries 1178048
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

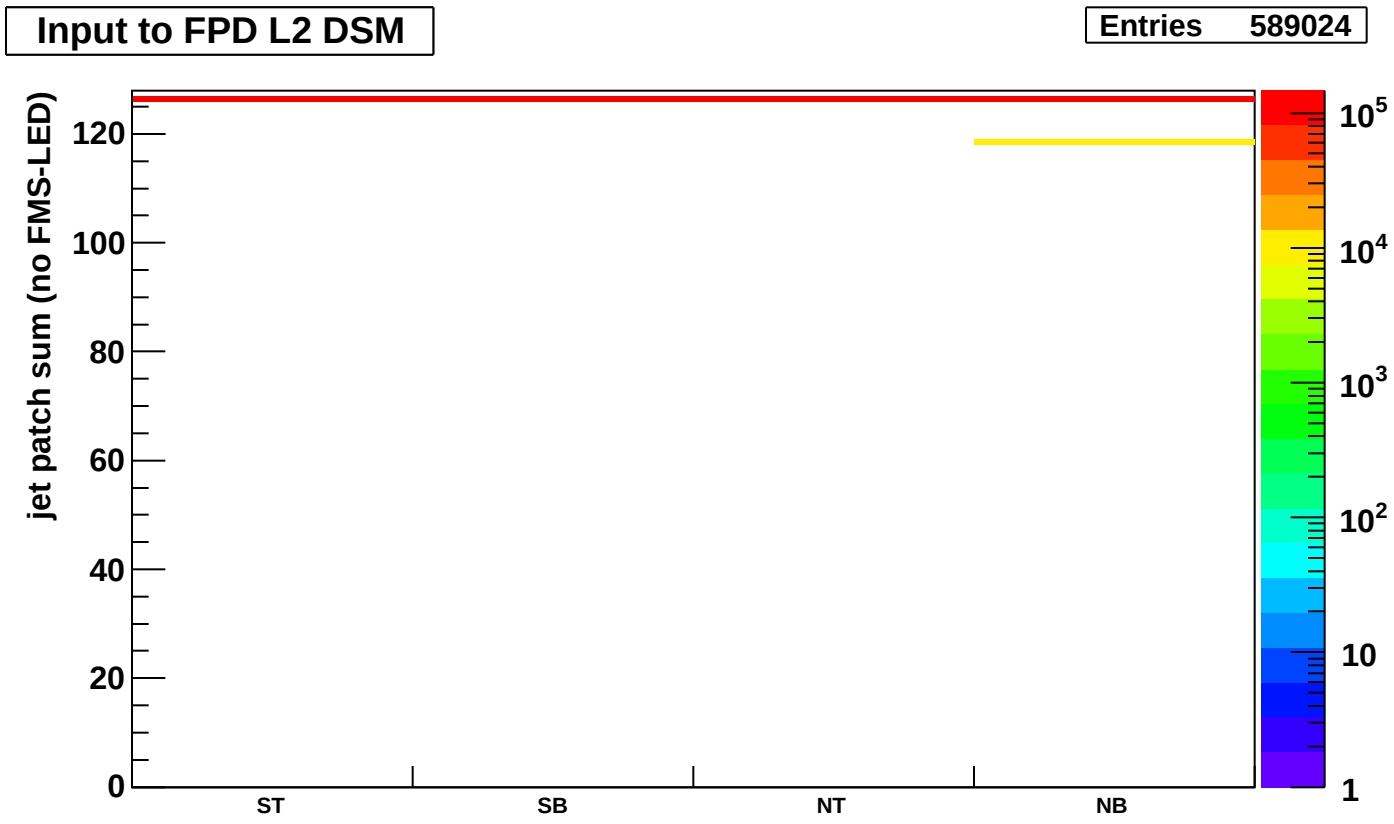

Input to FPD L2 DSM
Entries 1178048
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

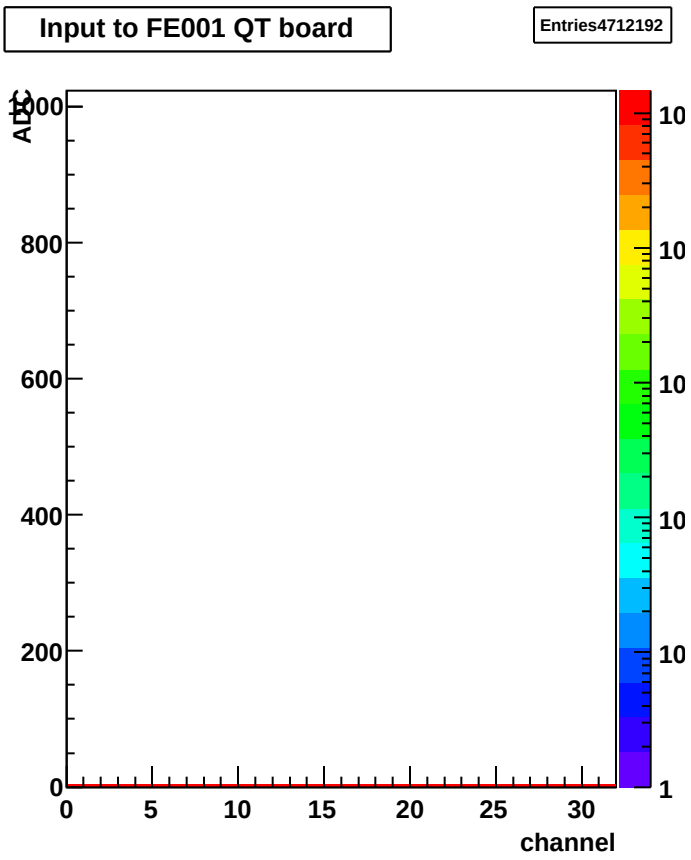

Input to FPD L2 DSM
Entries 441768
CL bits
147256
147256
147256
SMALL
LARGE-S
LARGE-N

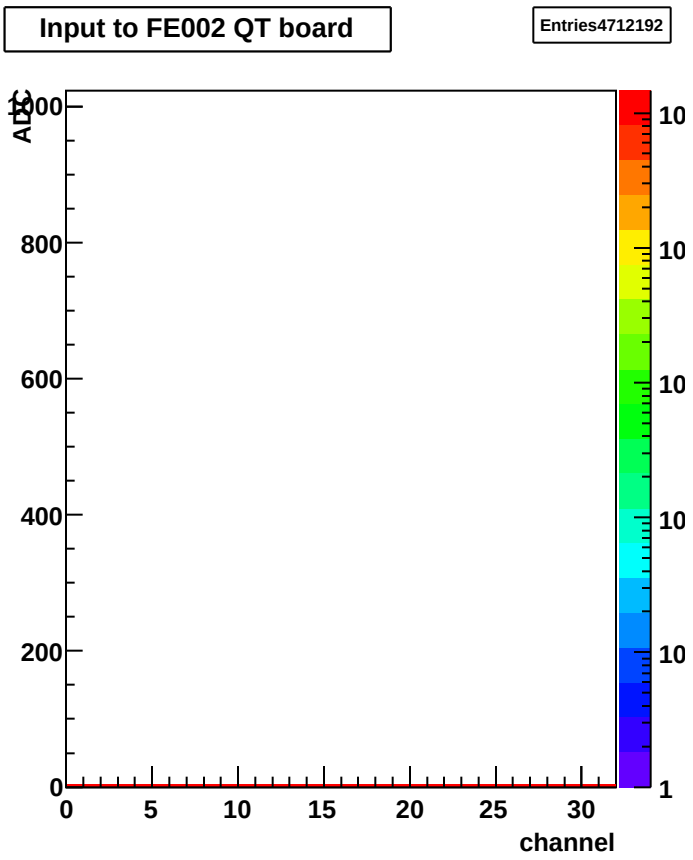

Input to FPD L2 DSM
Entries 441768
CL bits - simulated
147256
147256
147256
SMALL
LARGE-S
LARGE-N

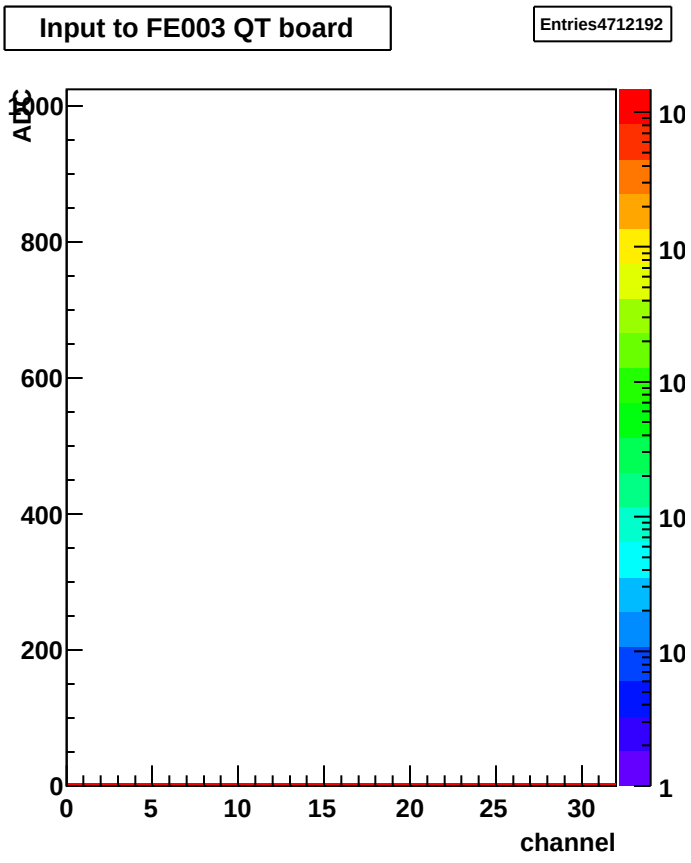

Input to FPD L2 DSM
Entries 441768
HT bits
147253
147256
147256
3
SMALL
LARGE-S
LARGE-N

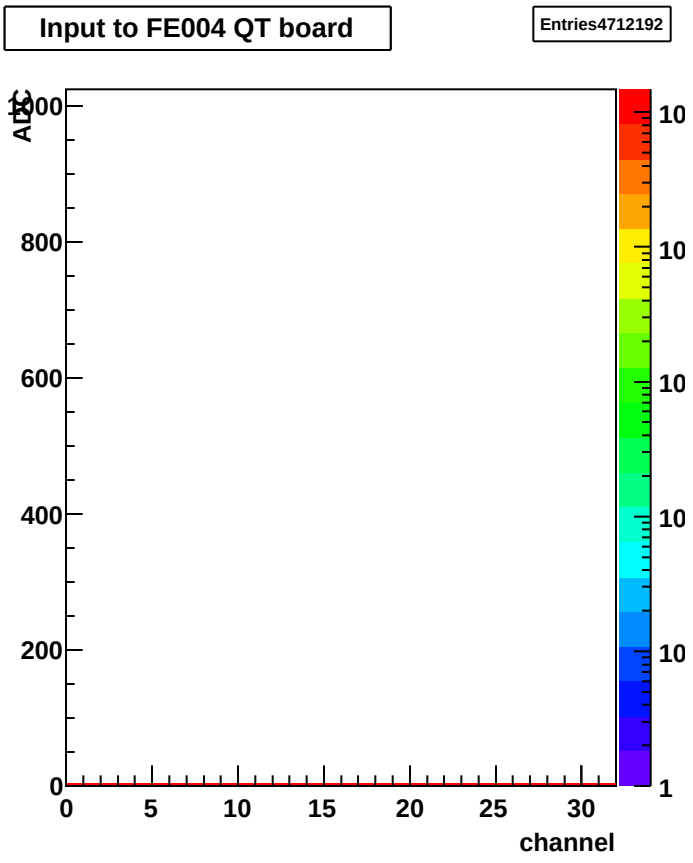

Input to FPD L2 DSM
Entries 441768
HT bits - simulated
147253
147256
147256
3
SMALL
LARGE-S
LARGE-N

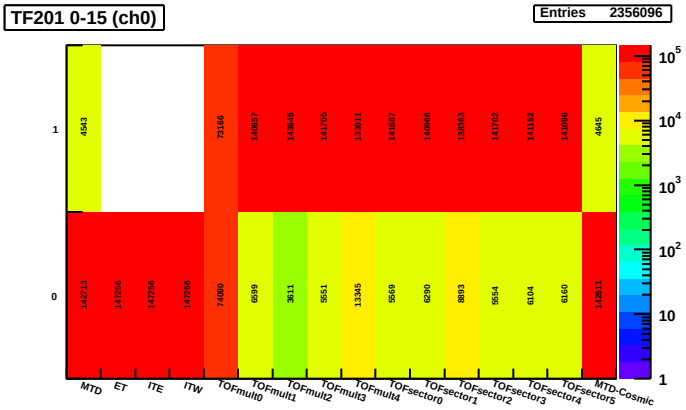

Input to FPD L2 DSM
Entries 589024
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

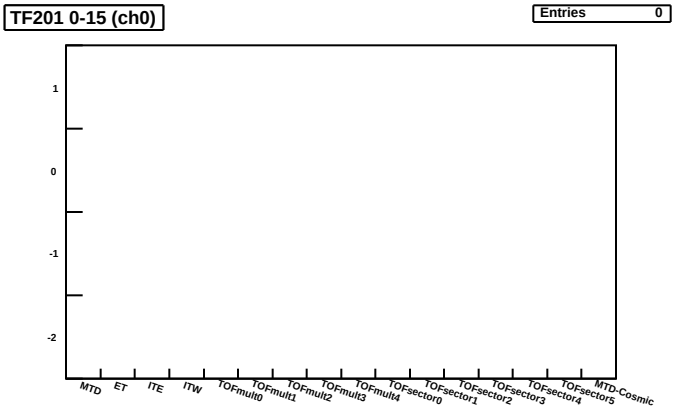

Input to FE001 QT board
Entries4712192
ADC
channel

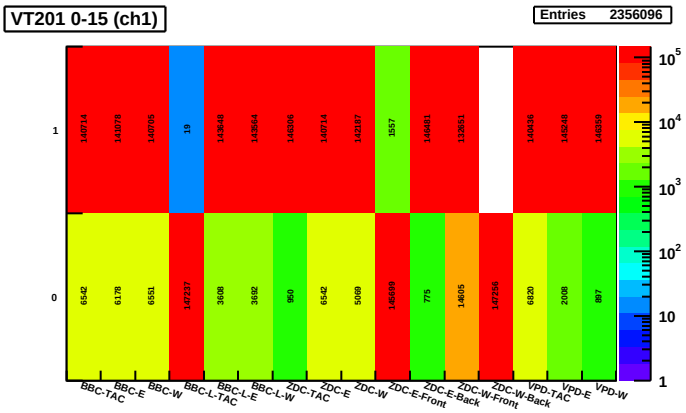

Input to FE002 QT board
Entries4712192
ADC
channel

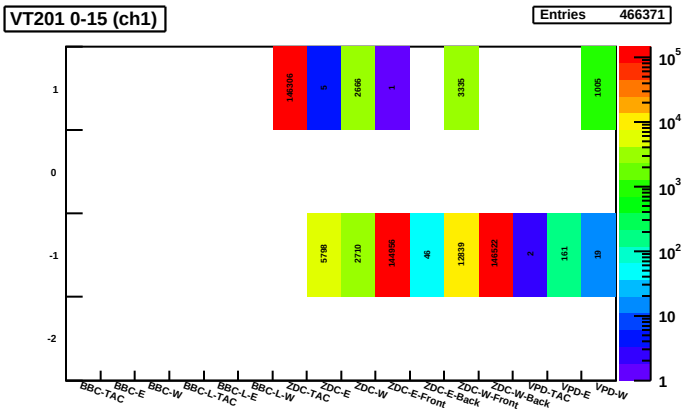

Input to FE003 QT board
Entries4712192
ADC
channel

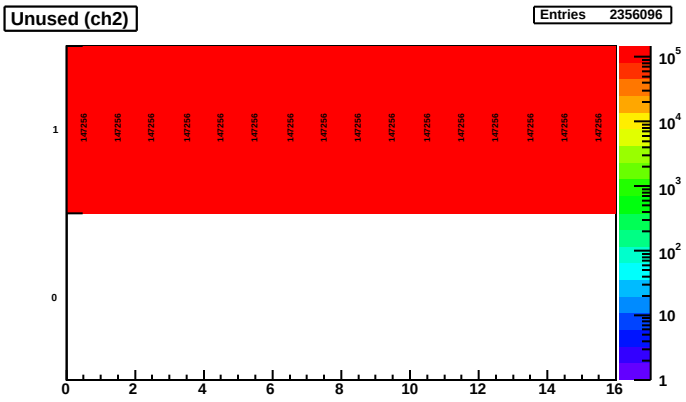

Input to FE004 QT board
Entries4712192
ADC
channel

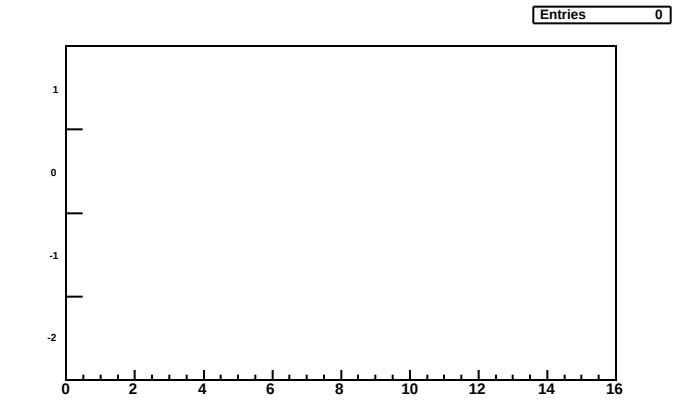

TF201 0-15 (ch0)
Entries 2356096
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

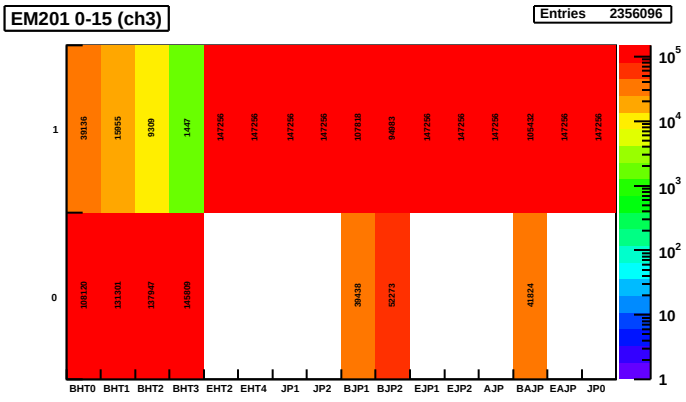

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

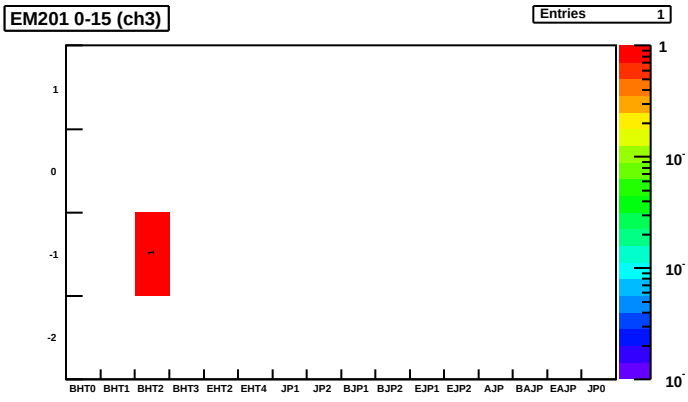

VT201 0-15 (ch1)
Entries 2356096
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 466371
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

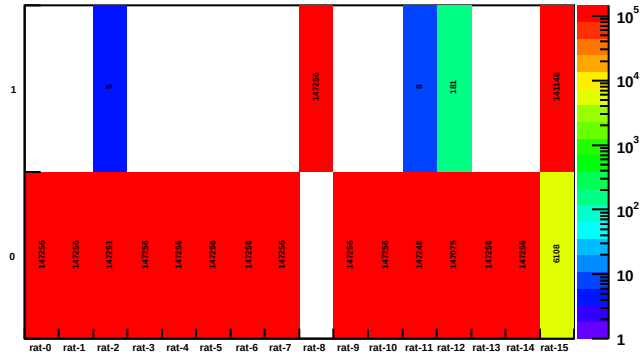

Unused (ch2)
Entries 2356096

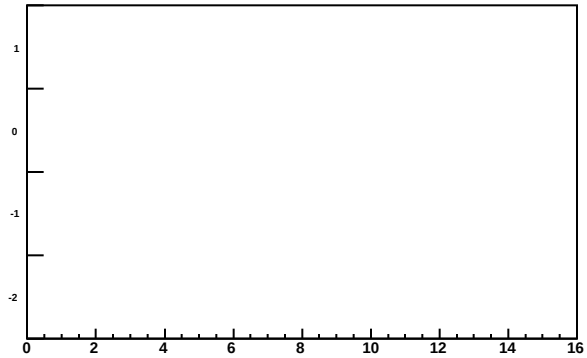

Entries 0


EM201 0-15 (ch3)
Entries 2356096
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

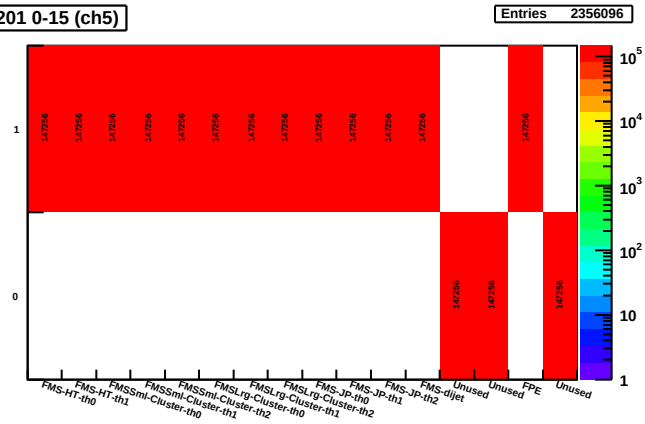

EM201 0-15 (ch3)
Entries 1
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

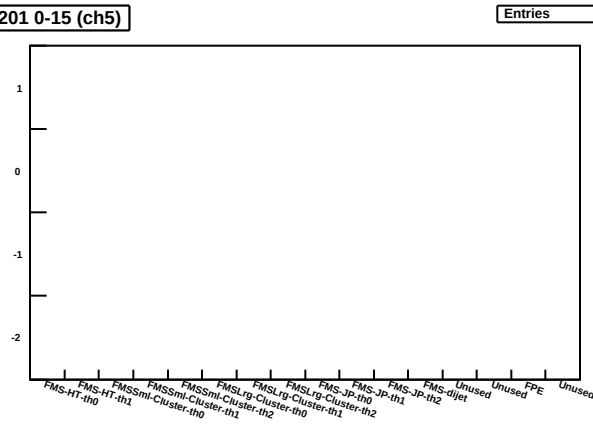




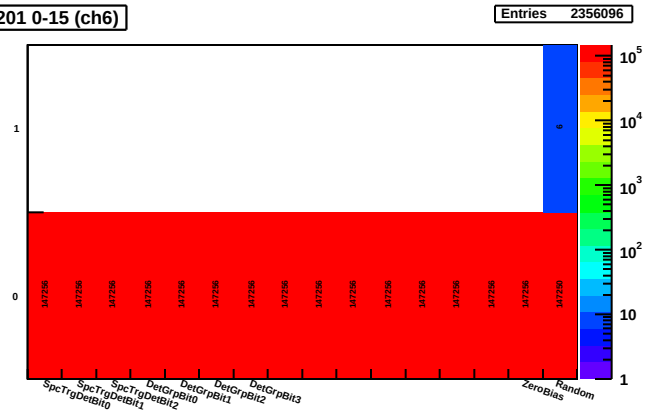
FP201 0-15 (ch5)

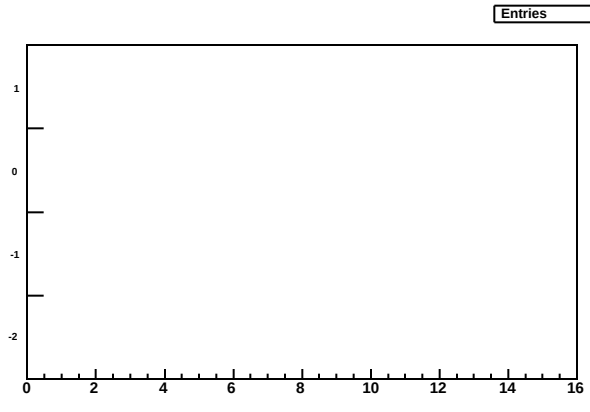
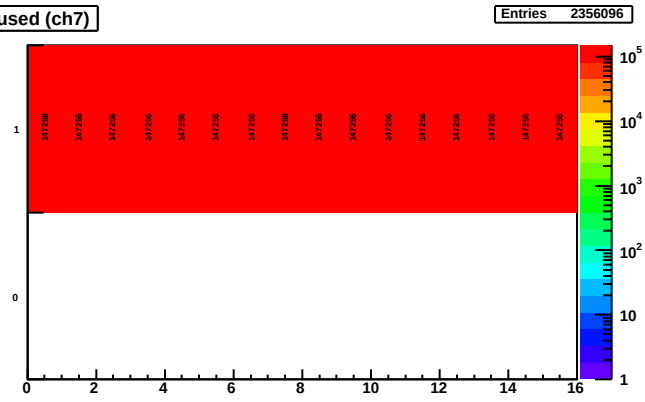
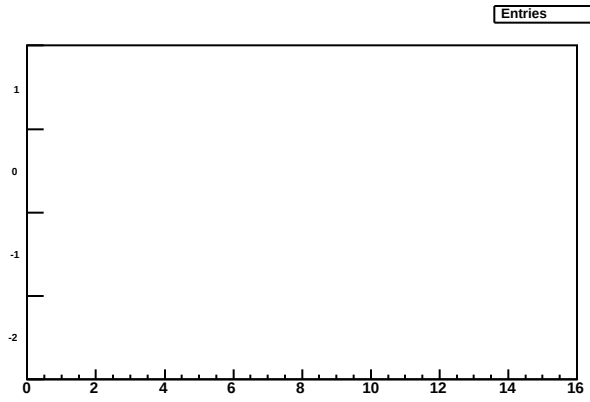


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)