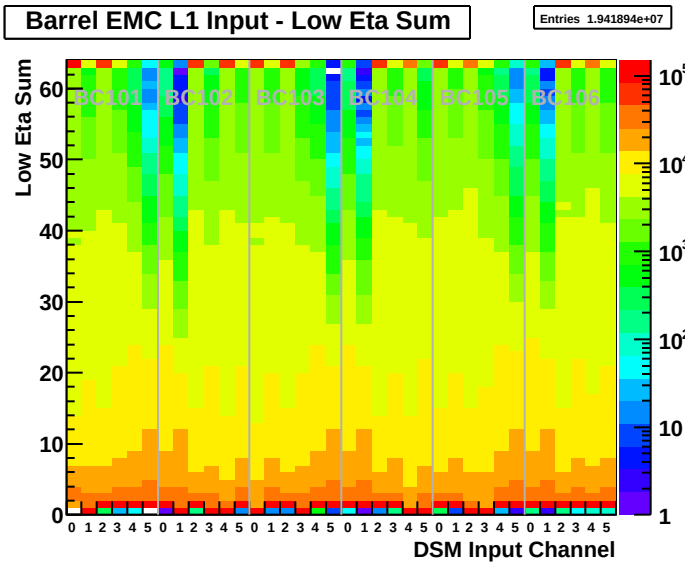
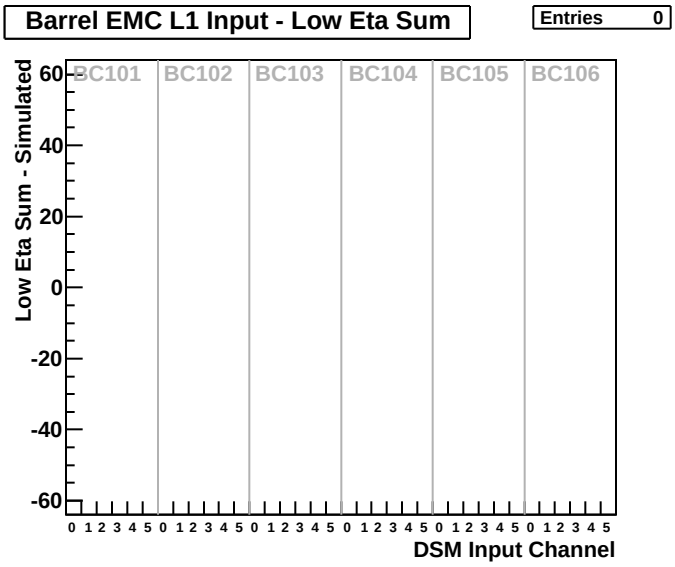
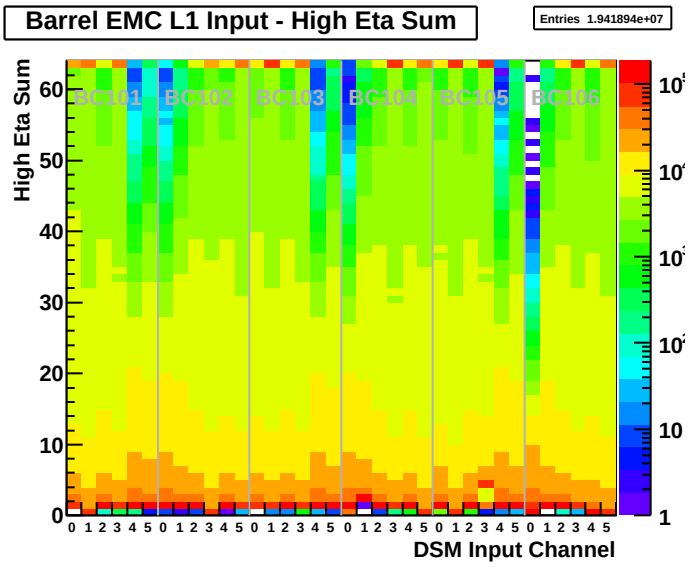
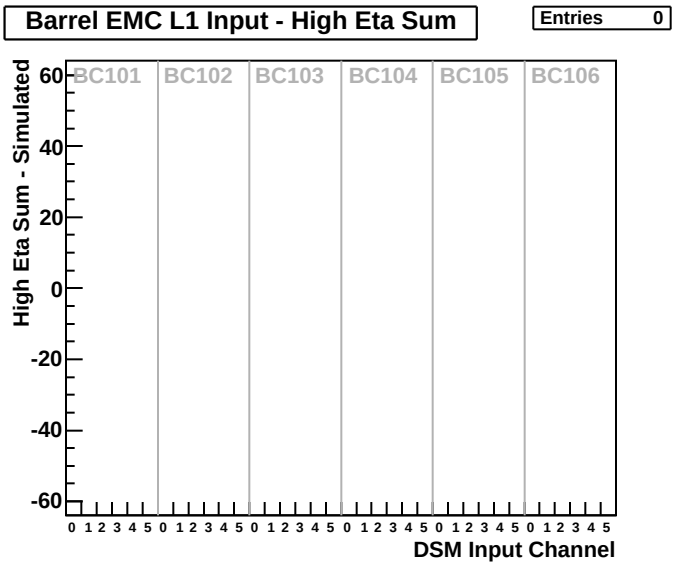
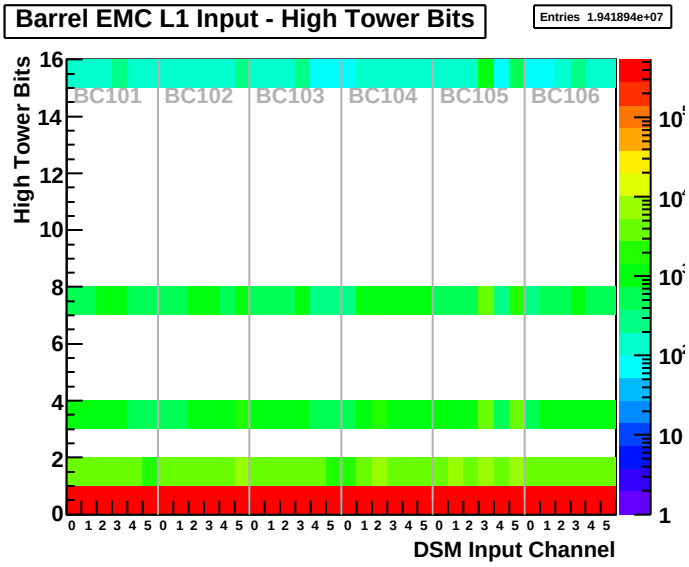
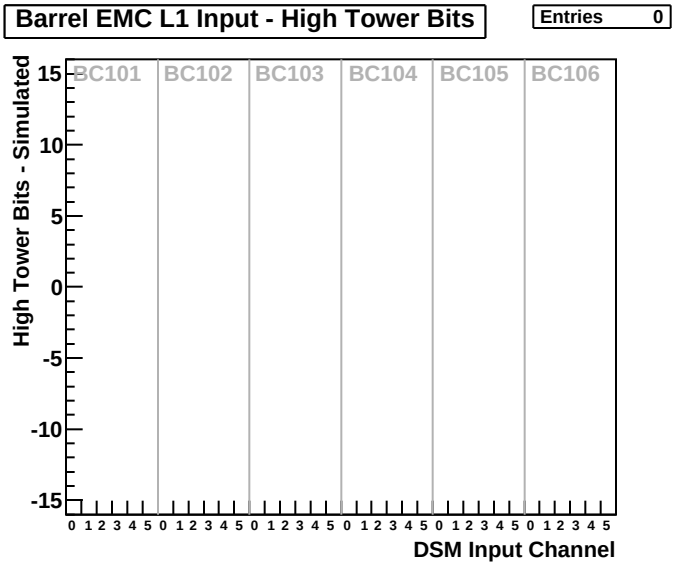

Barrel EMC L1 Input - Low Eta Sum
Entries 1.941894e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

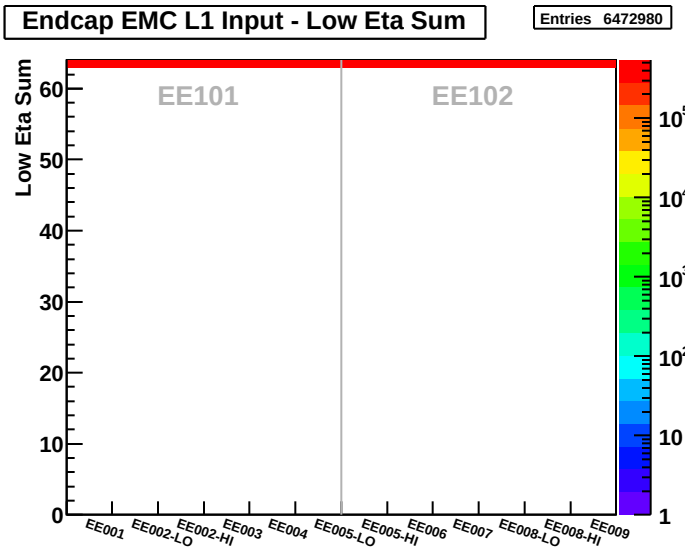

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

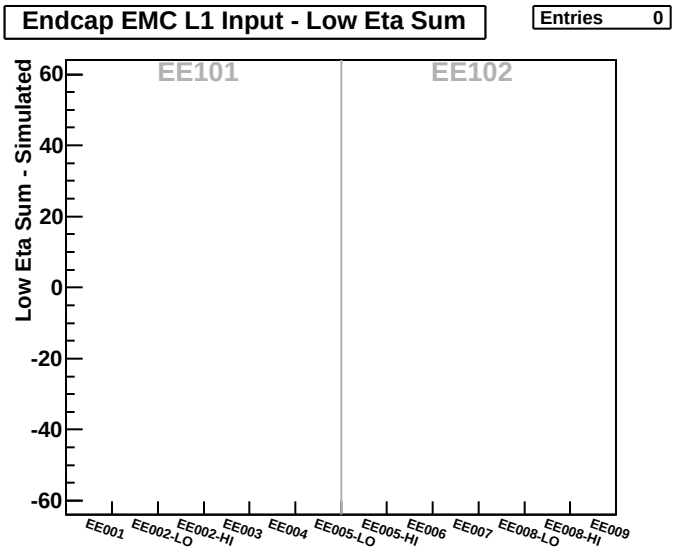

Barrel EMC L1 Input - High Eta Sum
Entries 1.941894e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

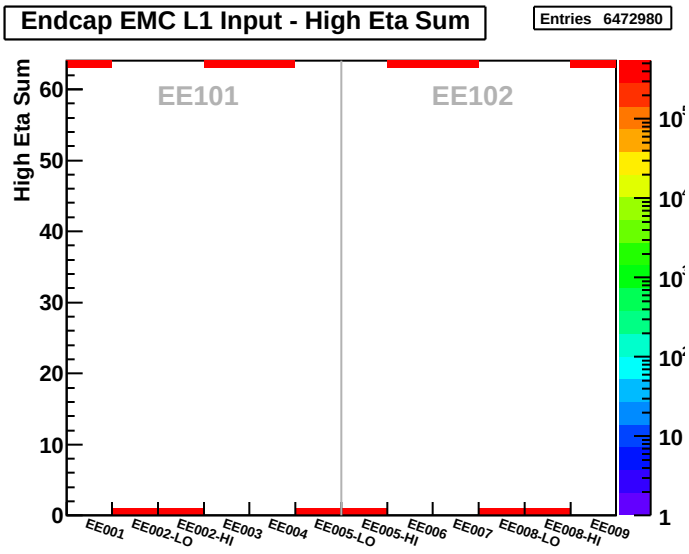

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

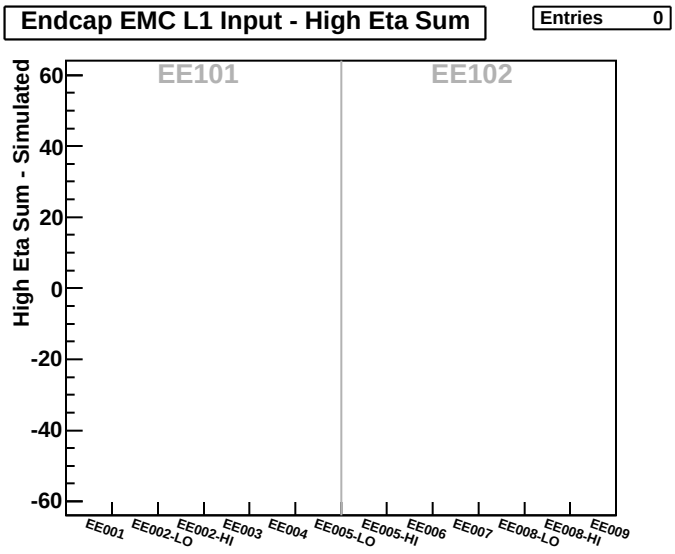

Barrel EMC L1 Input - High Tower Bits
Entries 1.941894e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

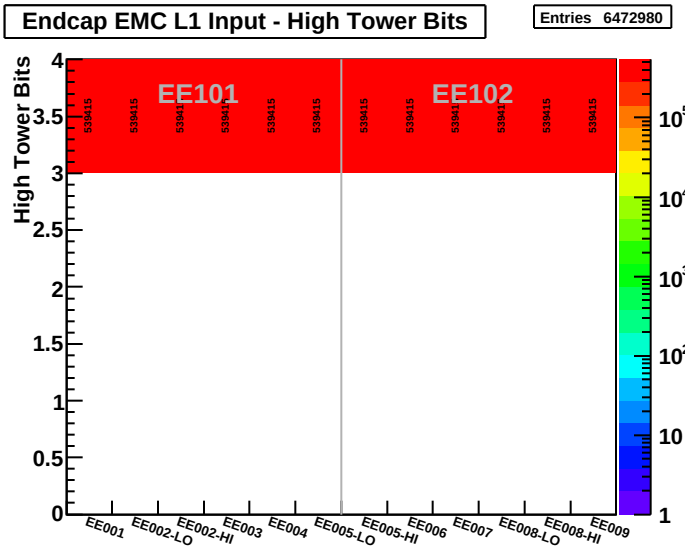

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

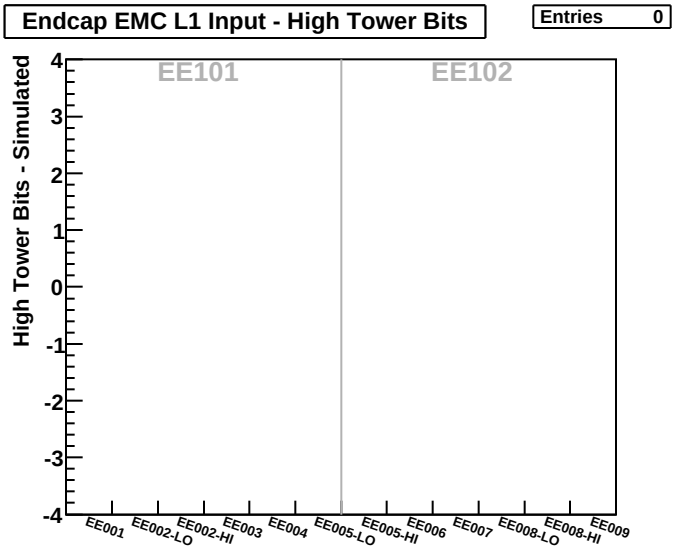

Endcap EMC L1 Input - Low Eta Sum
Entries 6472980
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

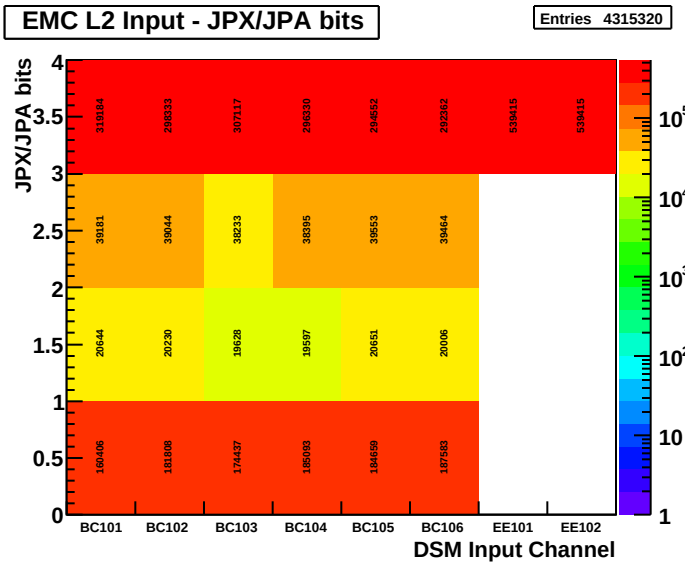

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

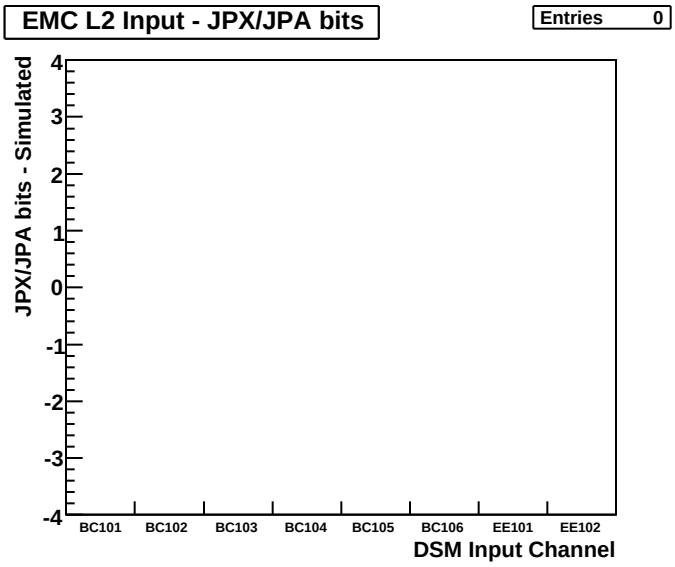

Endcap EMC L1 Input - High Eta Sum
Entries 6472980
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

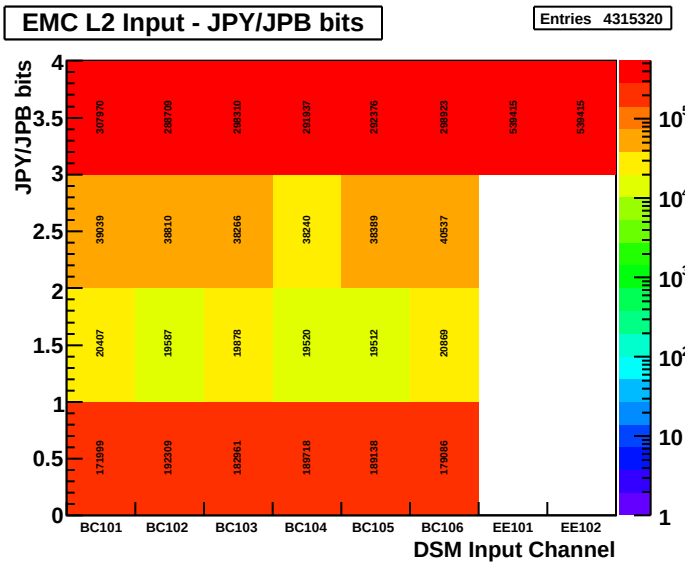

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

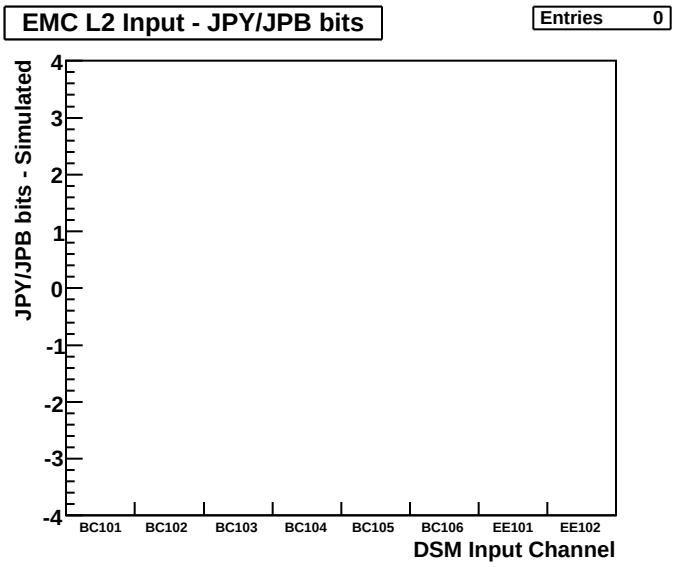

Endcap EMC L1 Input - High Tower Bits
Entries 6472980
High Tower Bits
EE101
EE102
539415
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

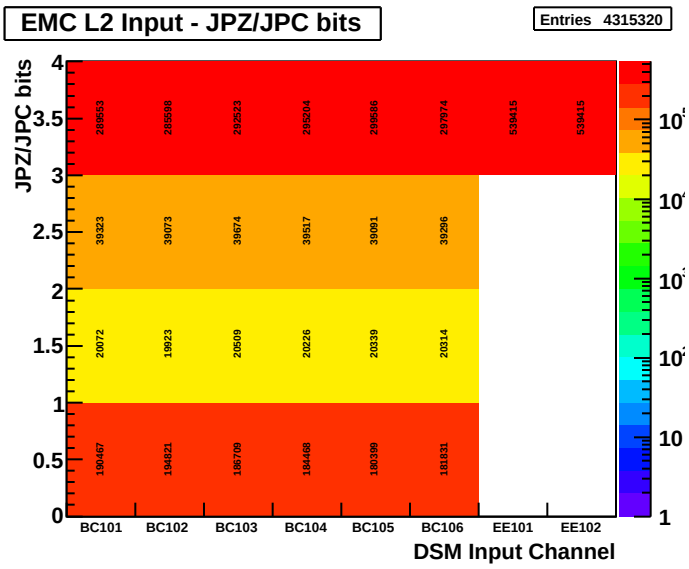

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

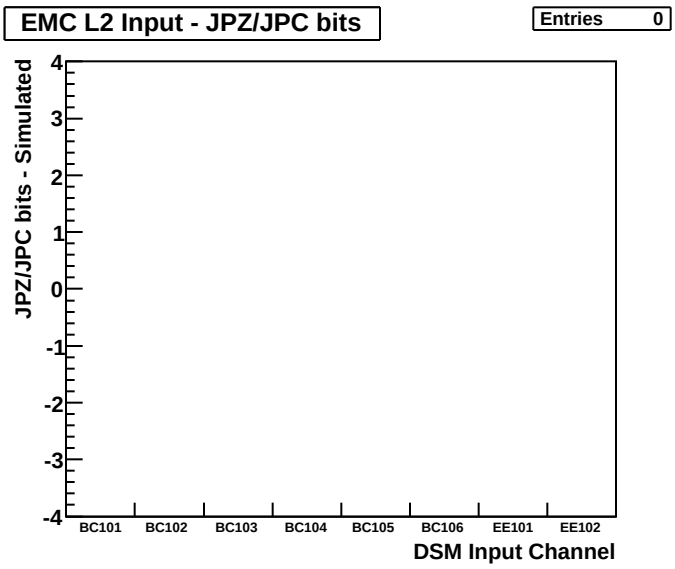

EMC L2 Input - JPX/JPA bits
Entries 4315320
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
319184 298233 307117 296330 294552 292362 539415 539415
39181 39044 38233 38395 39553 39464
20644 20230 19628 19567 20651 20006
160406 181608 174437 185093 184659 187583

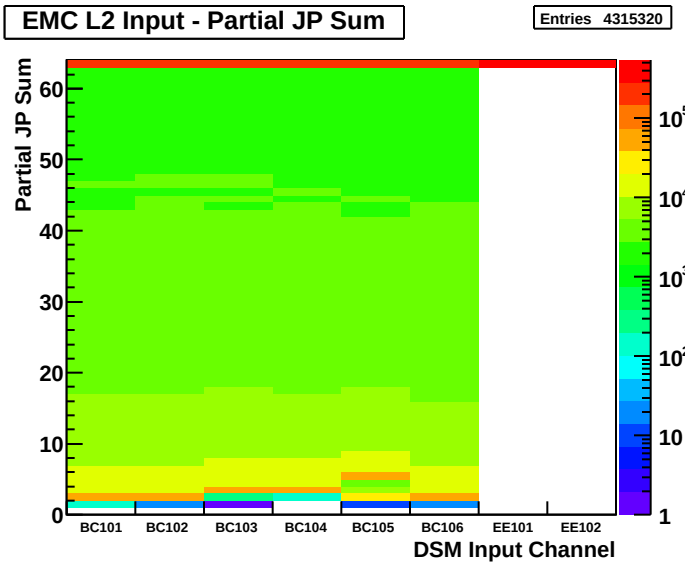

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

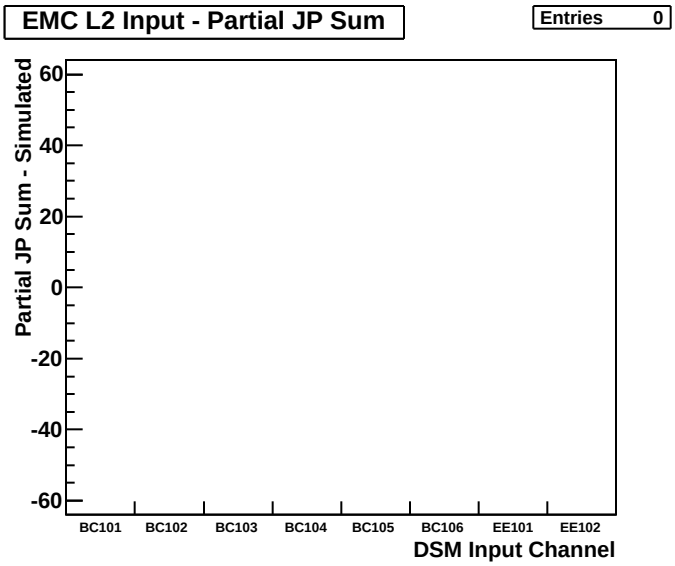

EMC L2 Input - JPY/JPB bits
Entries 4315320
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
307970 298709 298310 291937 292376 298923 539415 539415
39039 38810 38266 38240 38389 40537
20407 19587 19878 19520 19512 20869
173999 192309 182961 189718 189138 179086

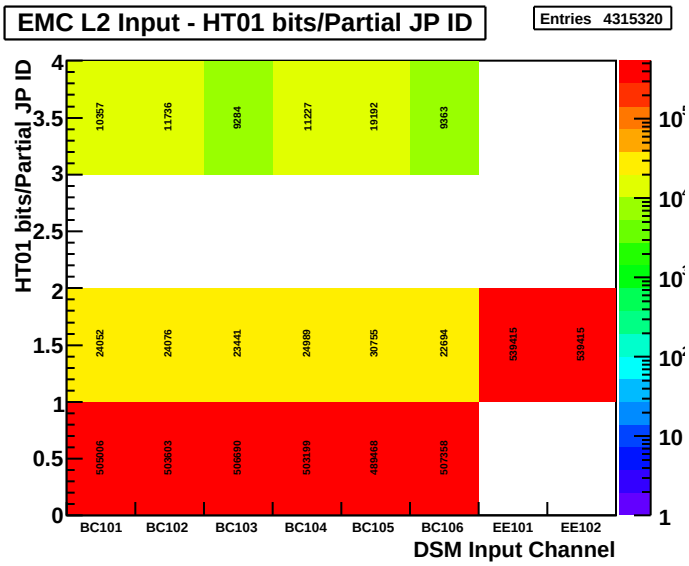

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

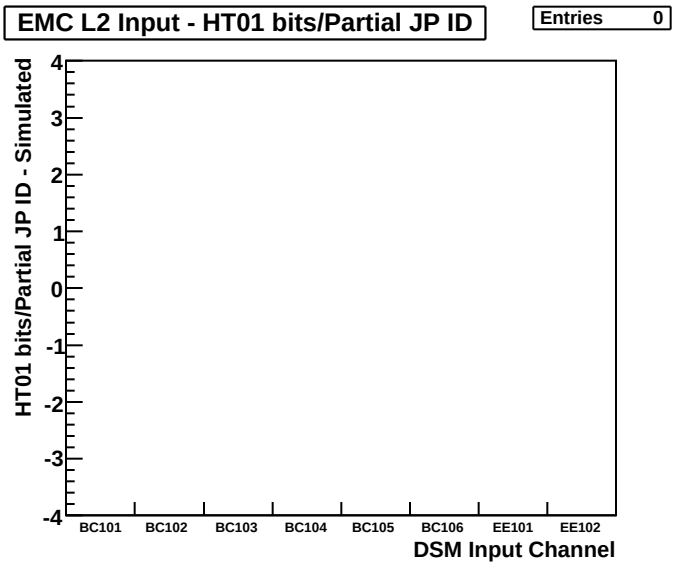

EMC L2 Input - JPZ/JPC bits
Entries 4315320
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
288553 285598 292523 293204 299586 297974 539415 539415
39323 39073 39674 39517 39091 39296
20072 19923 20509 20226 20339 20314
190467 194821 186709 184468 180399 181831

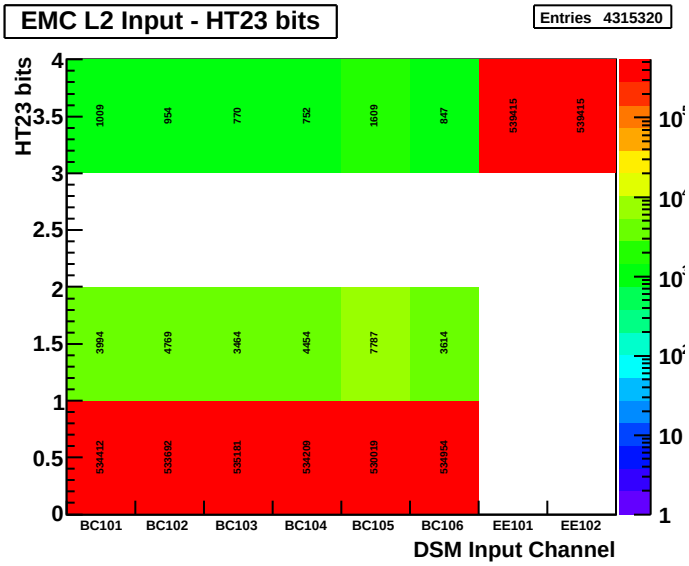

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

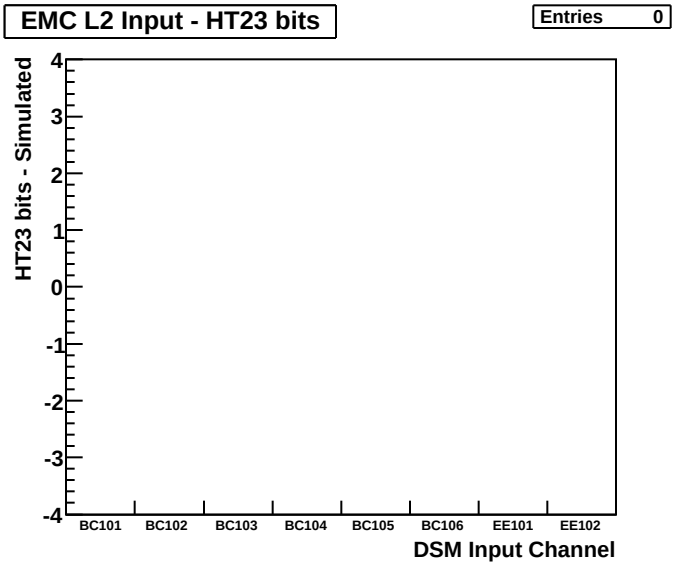

EMC L2 Input - Partial JP Sum
Entries 4315320
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

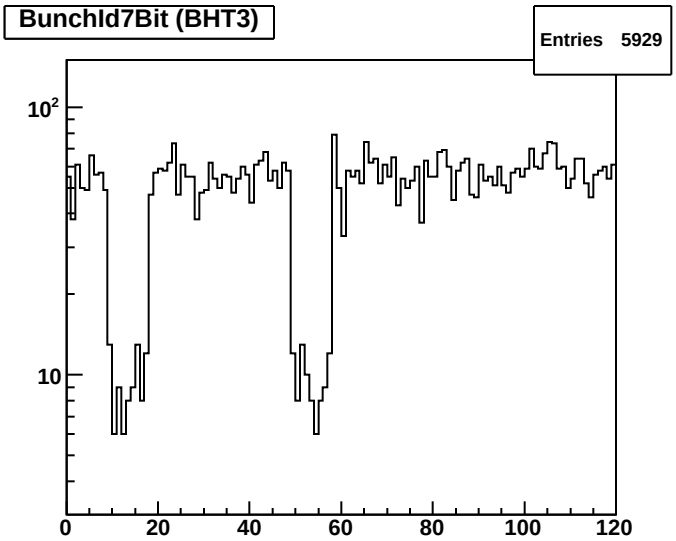

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

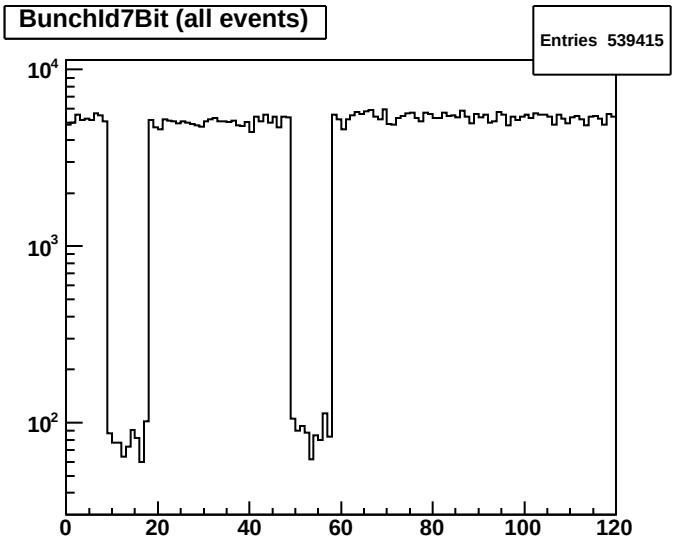

EMC L2 Input - HT01 bits/Partial JP ID
Entries 4315320
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

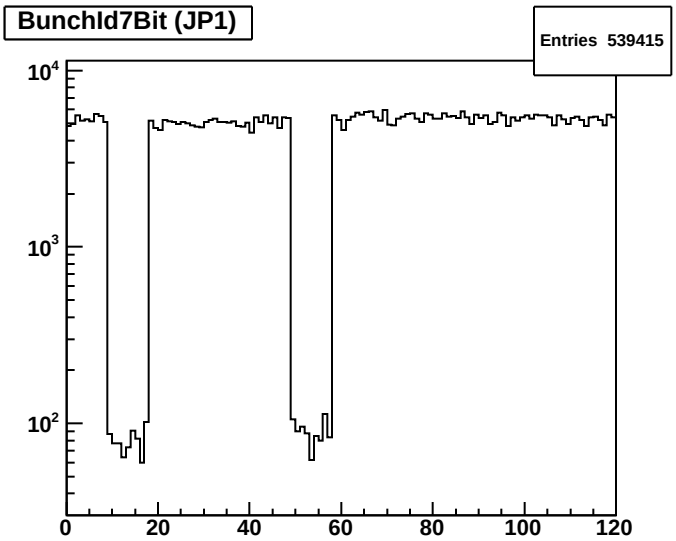

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

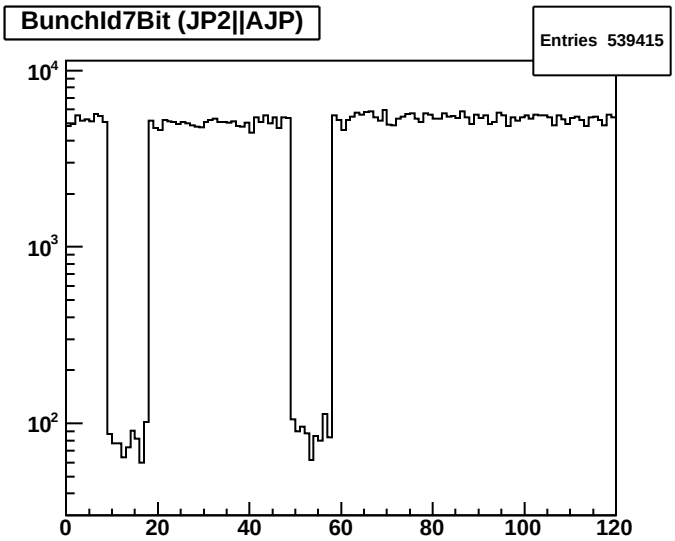

EMC L2 Input - HT23 bits
Entries 4315320
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

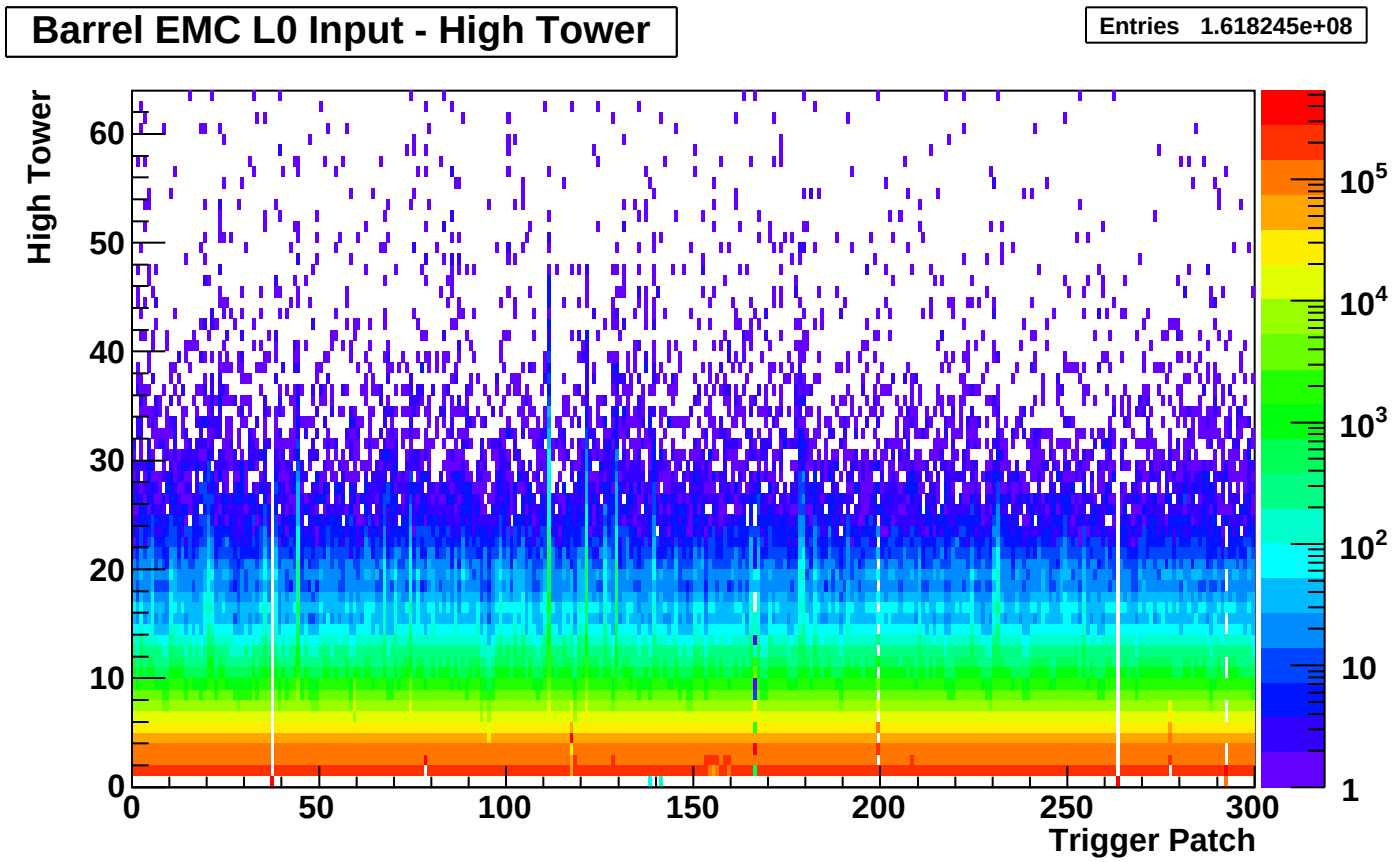

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

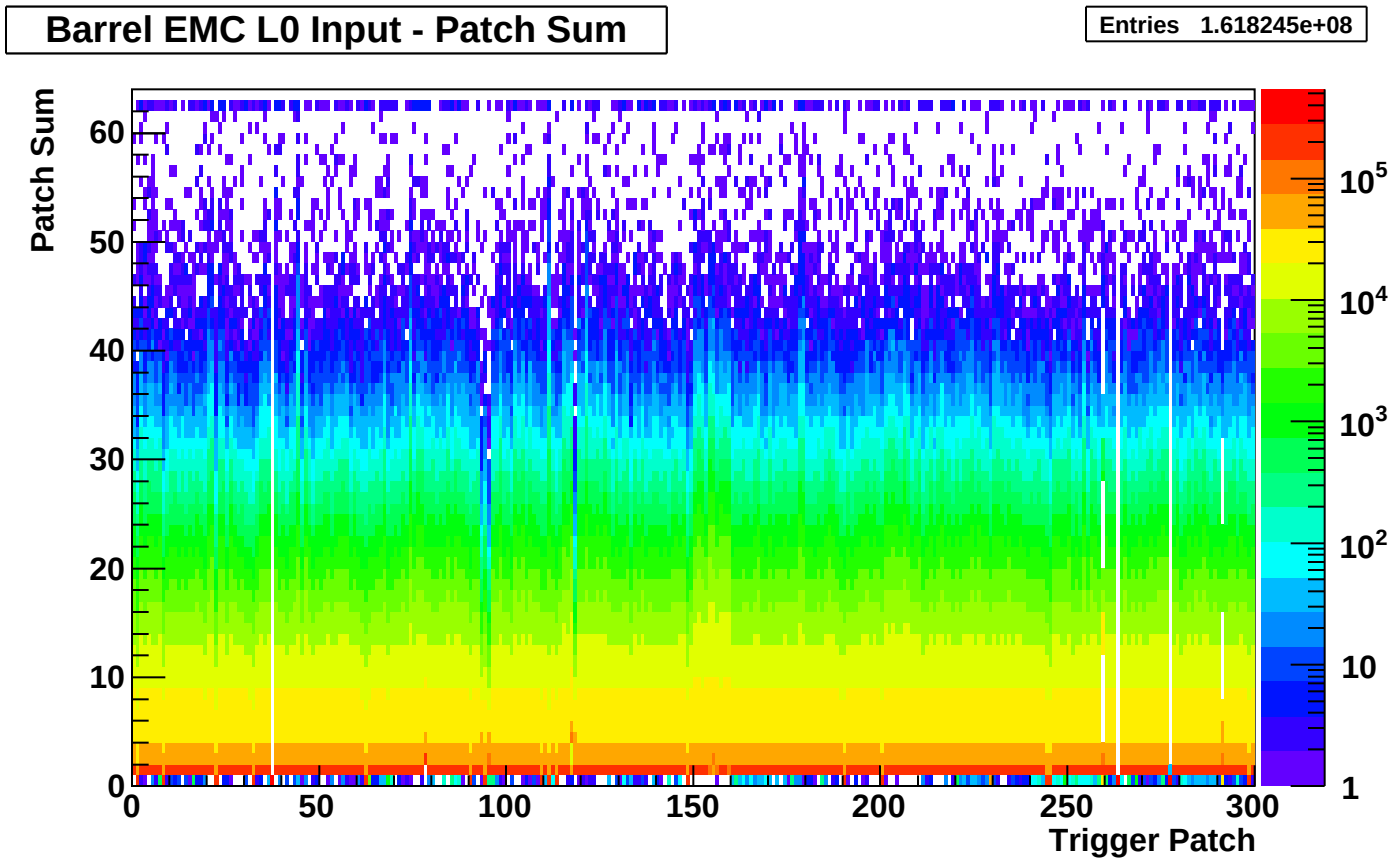

BunchId7Bit (BHT3)
Entries 5929
10^2
10
0
20
40
60
80
100
120

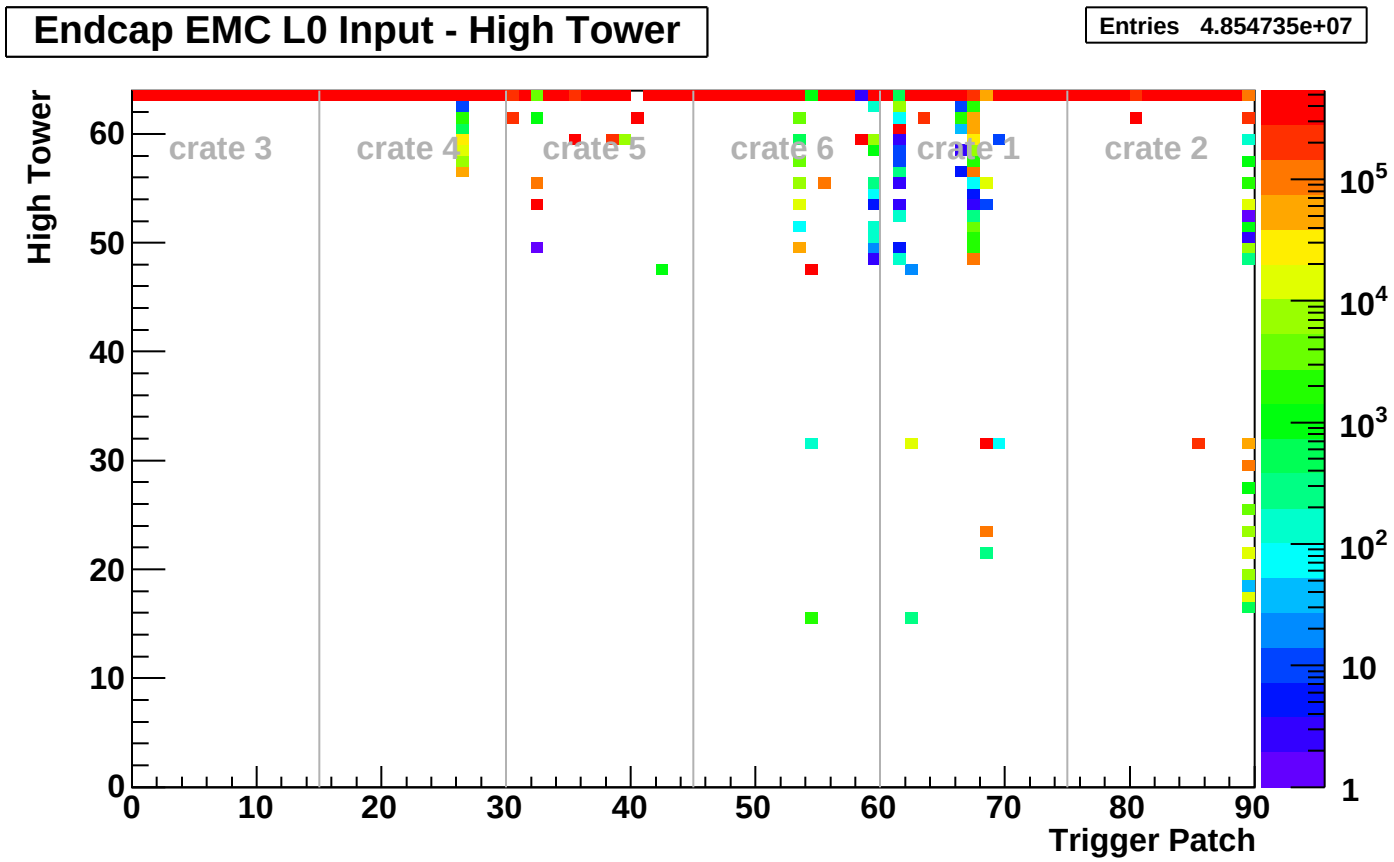

BunchId7Bit (all events)
Entries 539415
10^4
10^3
10^2
0
20
40
60
80
100
120

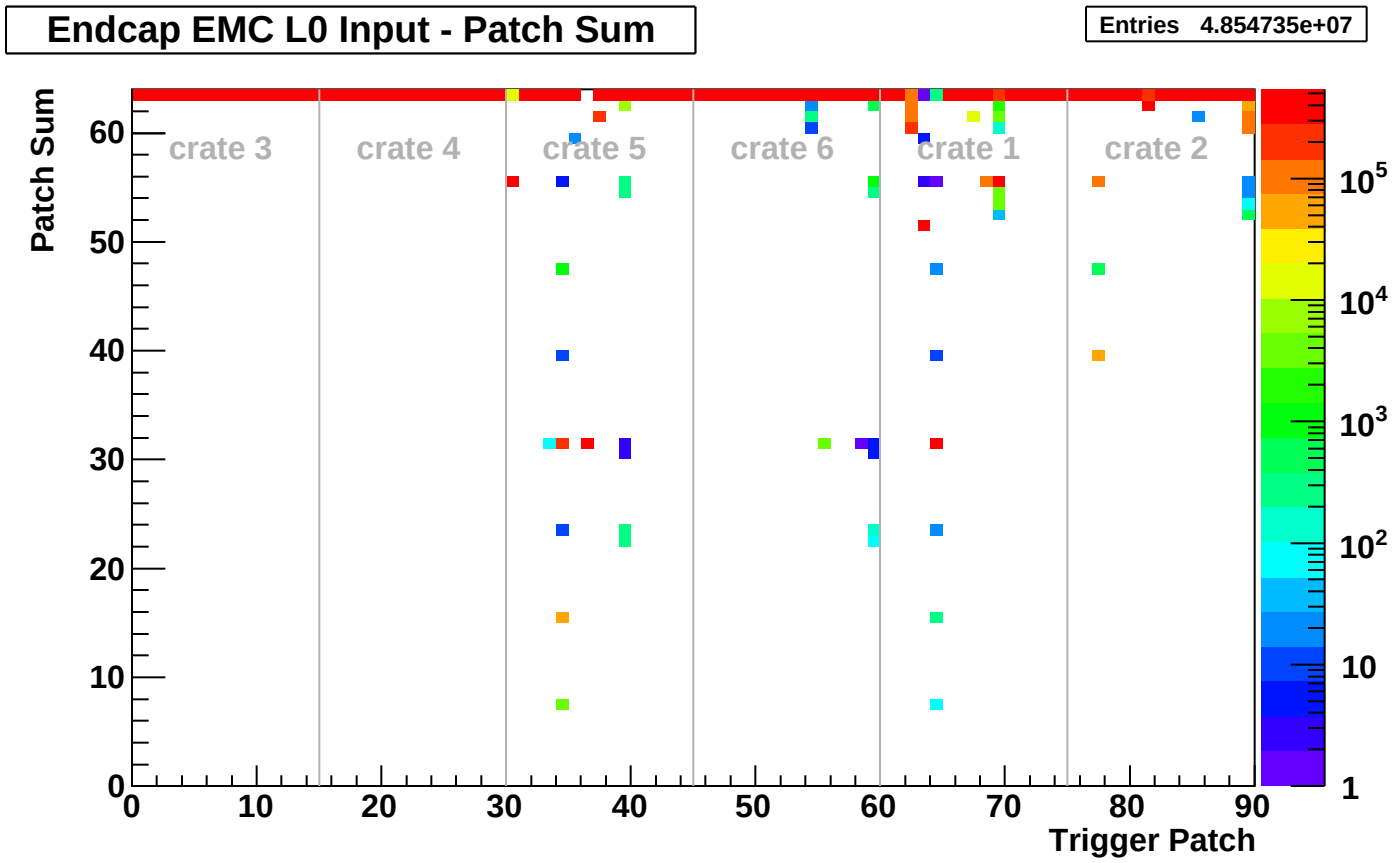

BunchId7Bit (JP1)
Entries 539415
10^4
10^3
10^2
0
20
40
60
80
100
120

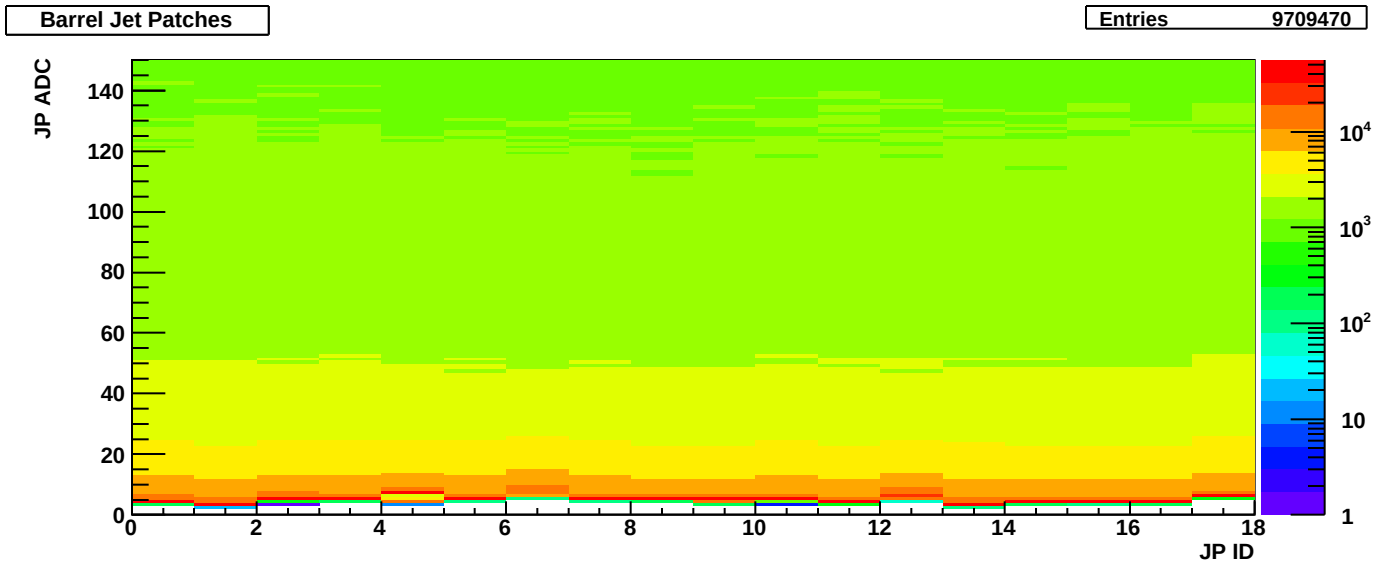

BunchId7Bit (JP2||AJP)
Entries 539415
10^4
10^3
10^2
0
20
40
60
80
100
120

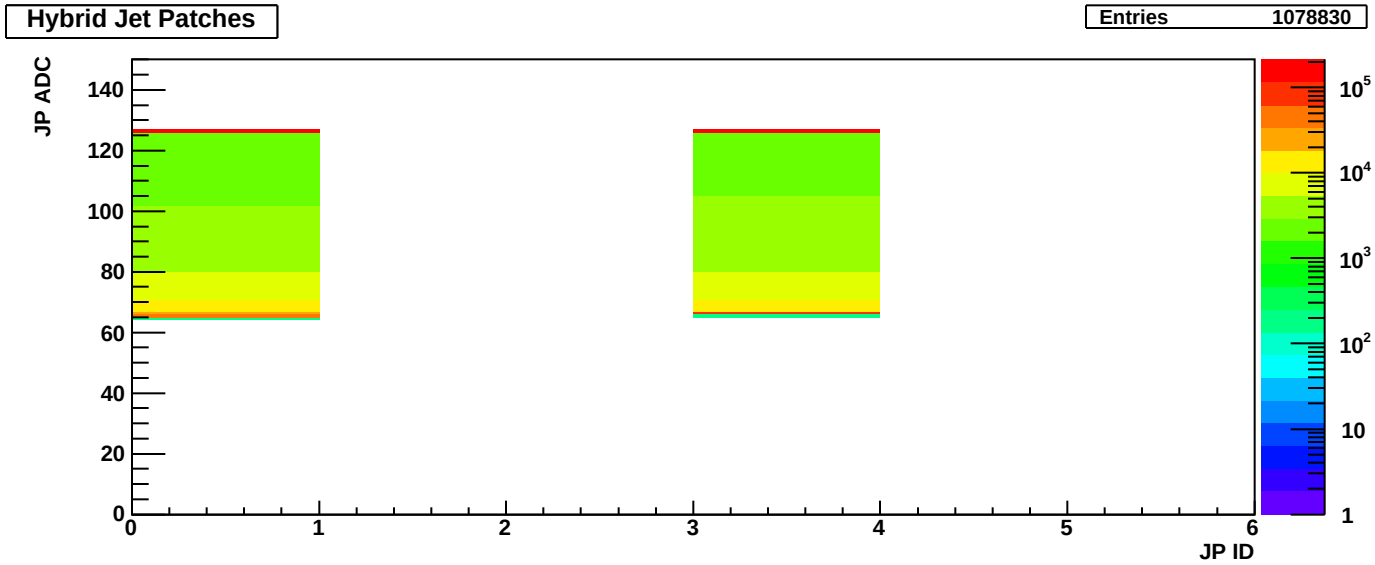

Barrel EMC L0 Input - High Tower
Entries 1.618245e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

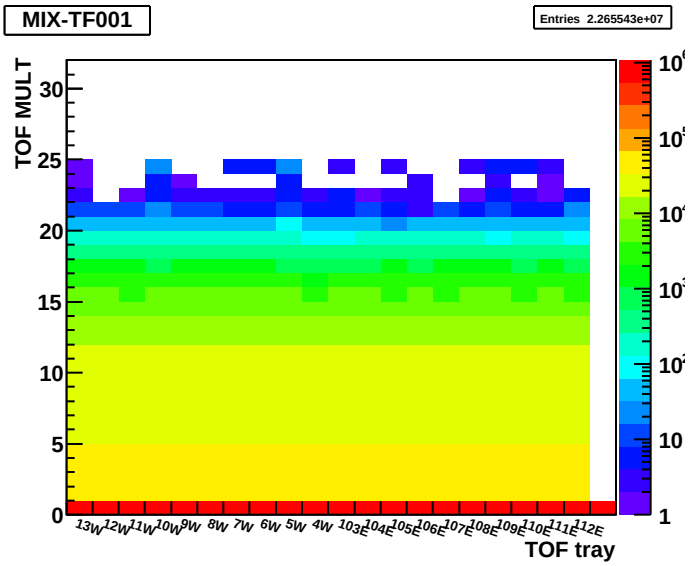

Barrel EMC L0 Input - Patch Sum
Entries 1.618245e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

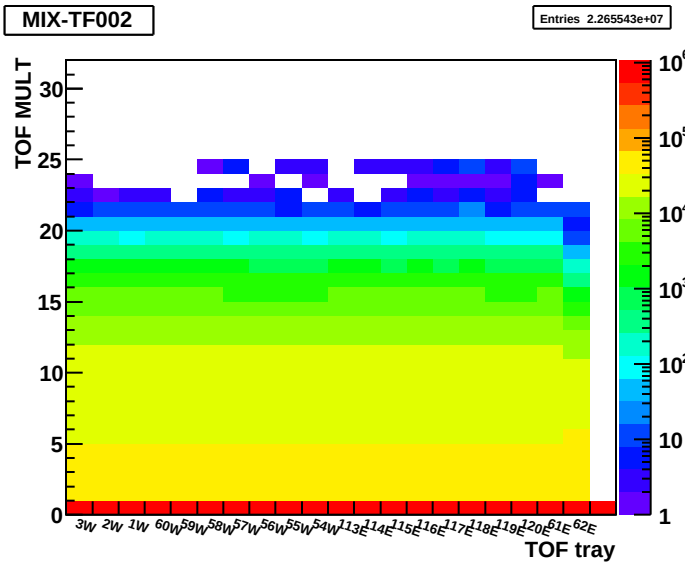

Endcap EMC L0 Input - High Tower
Entries 4.854735e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

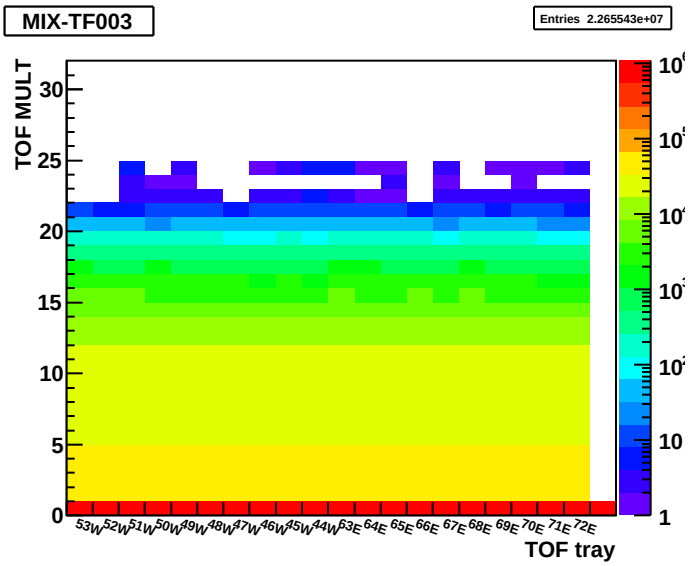

Endcap EMC L0 Input - Patch Sum
Entries 4.854735e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

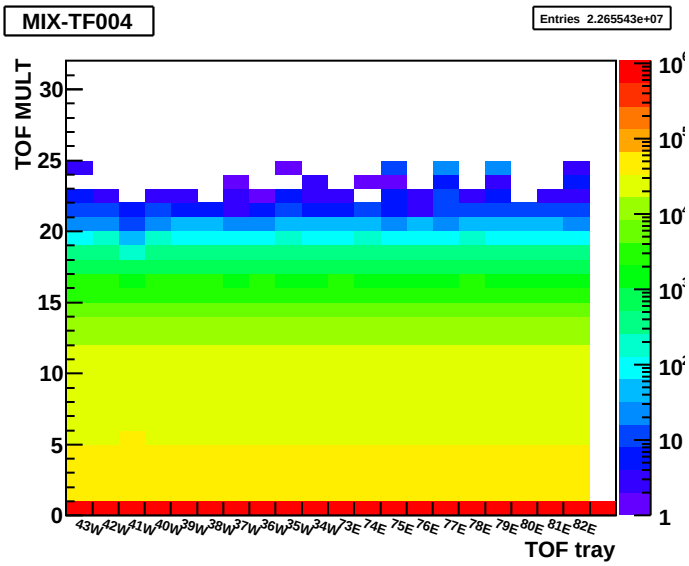

Barrel Jet Patches
Entries 9709470
JP ADC
JP ID

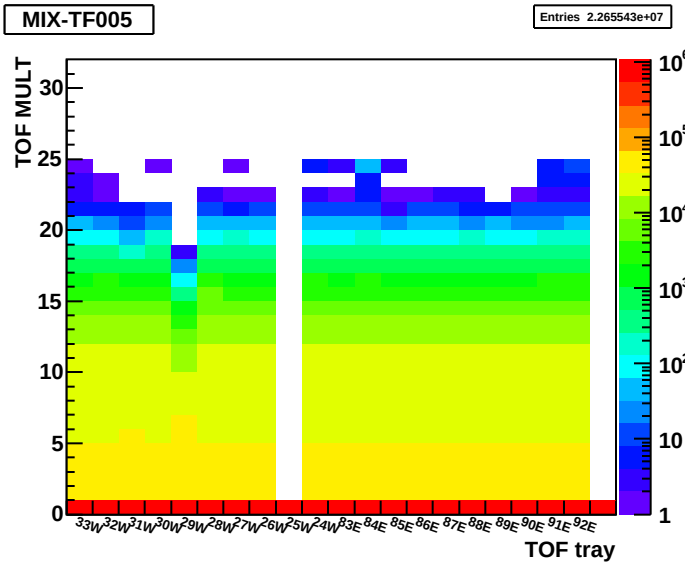

Hybrid Jet Patches
Entries 1078830
JP ADC
JP ID

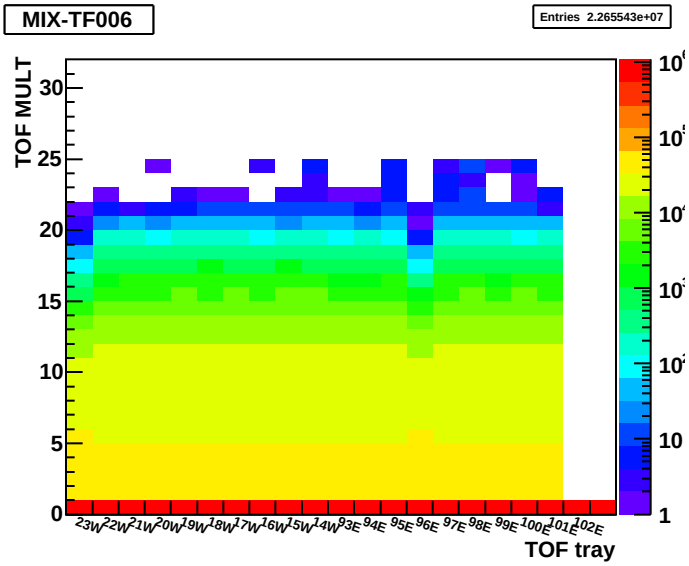

MIX-TF001
Entries 2.265543e+07
TOF MULT
TOF tray

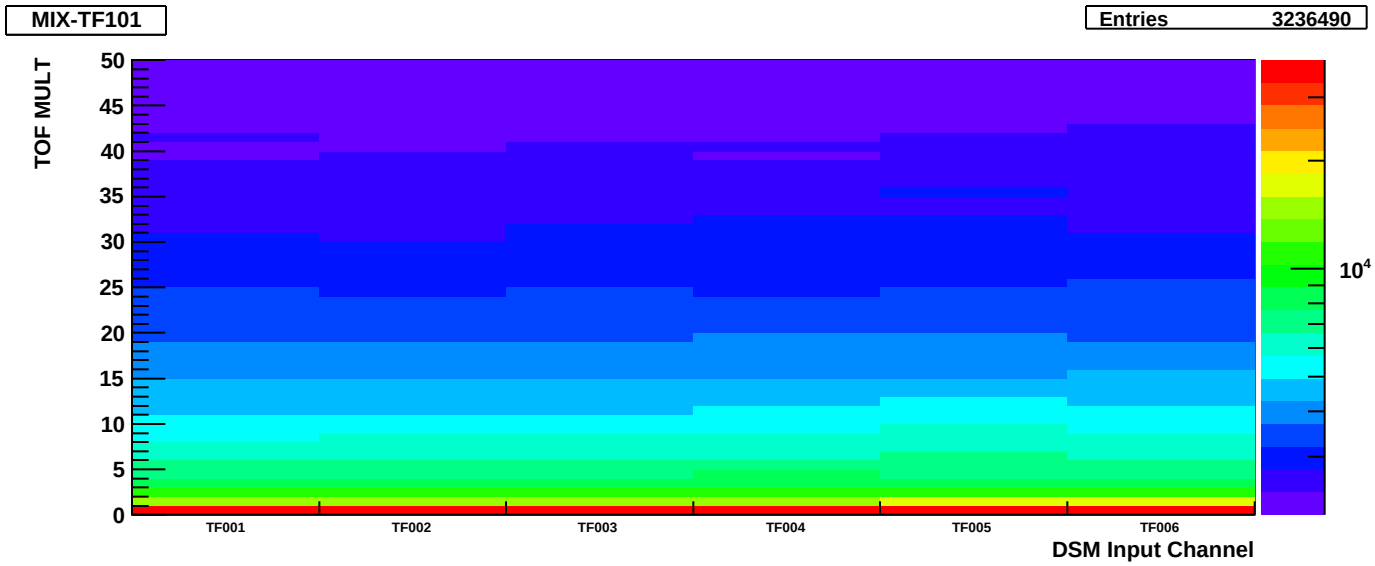

MIX-TF002
Entries 2.265543e+07
TOF MULT
TOF tray

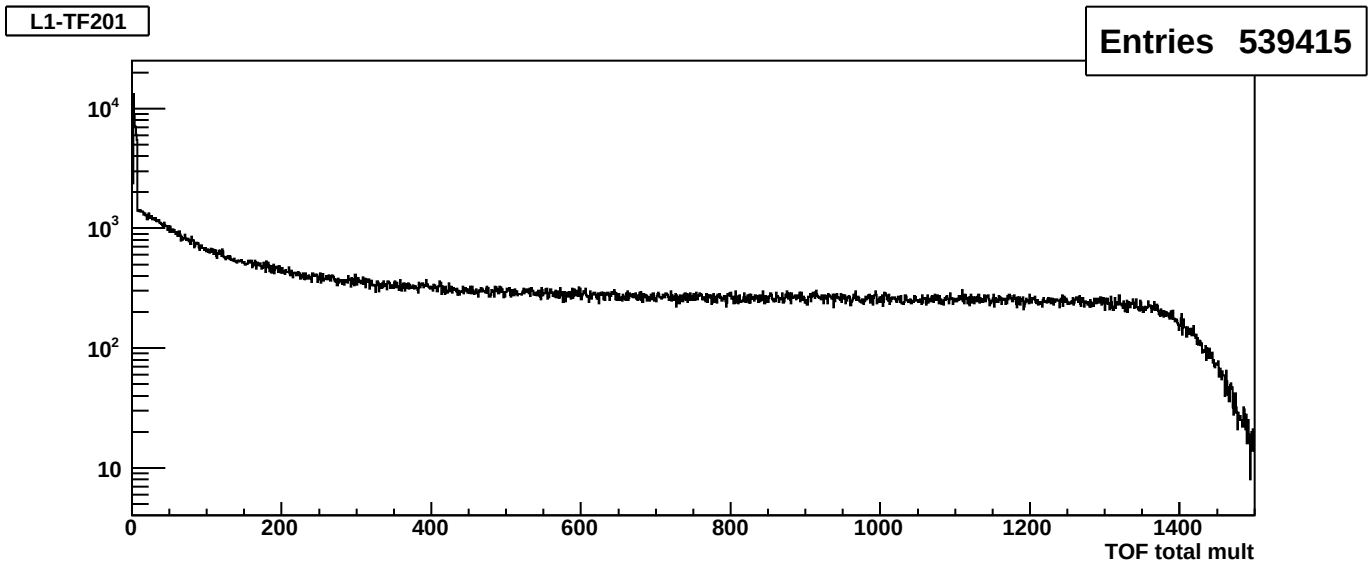

MIX-TF003
Entries 2.265543e+07
TOF MULT
TOF tray

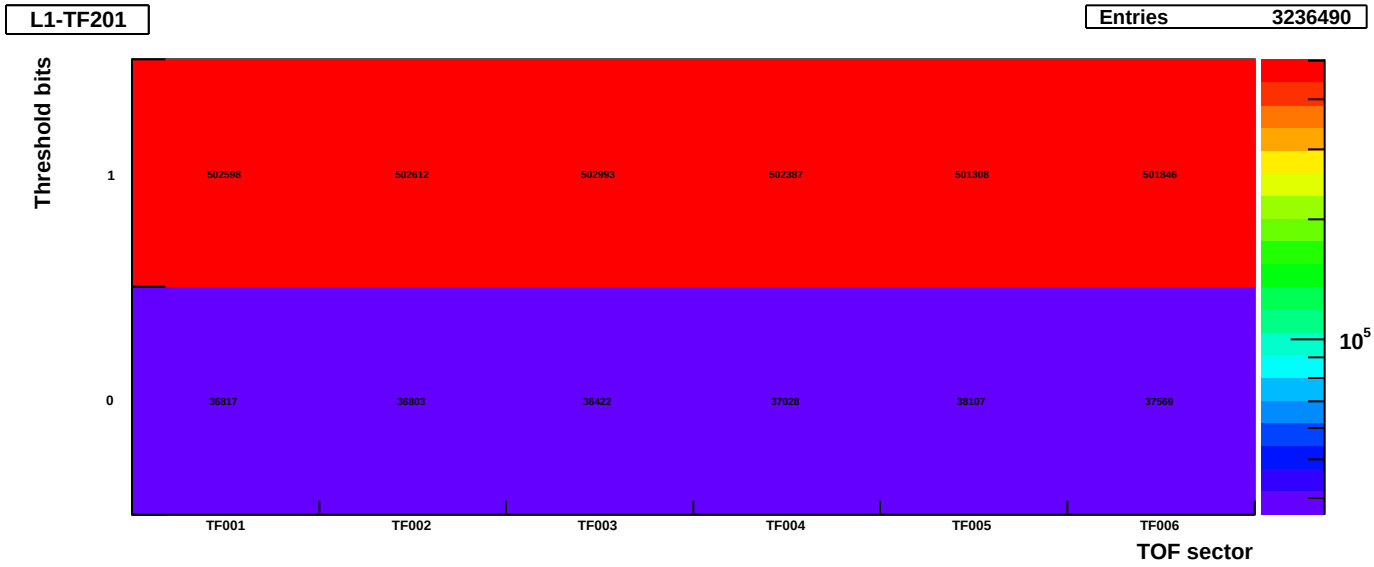

MIX-TF004
Entries 2.265543e+07
TOF MULT
TOF tray

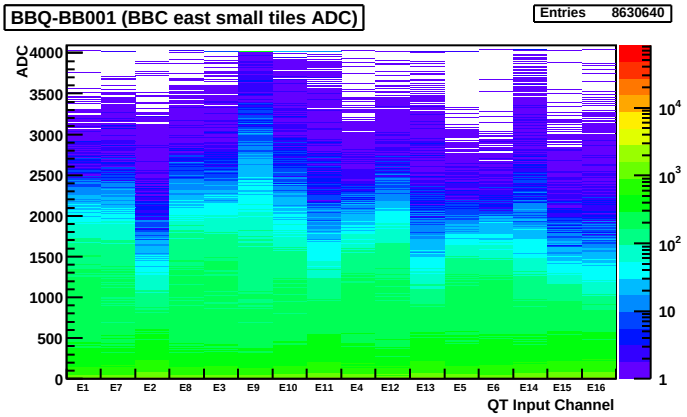

MIX-TF005
Entries 2.265543e+07
TOF MULT
TOF tray

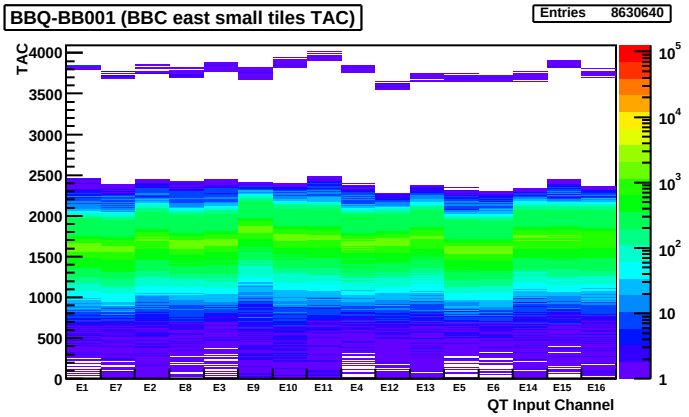

MIX-TF006
Entries 2.265543e+07
TOF MULT
TOF tray

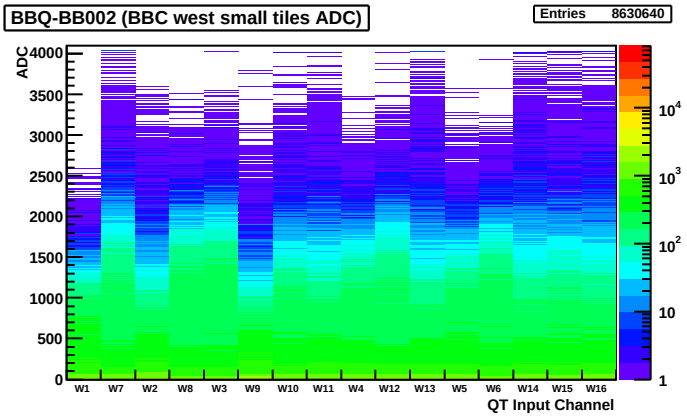

MIX-TF101
Entries 3236490
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

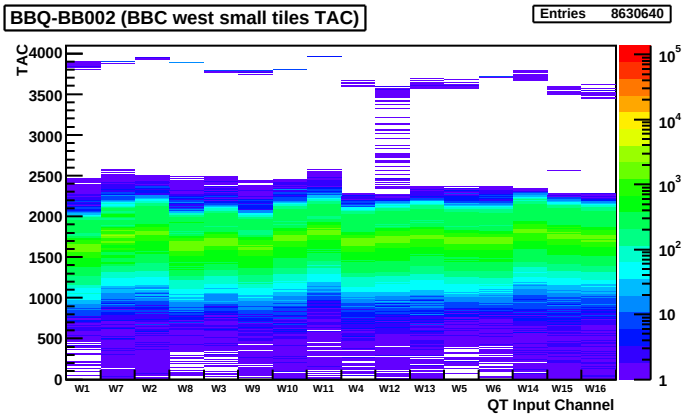

L1-TF201
Entries 539415
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

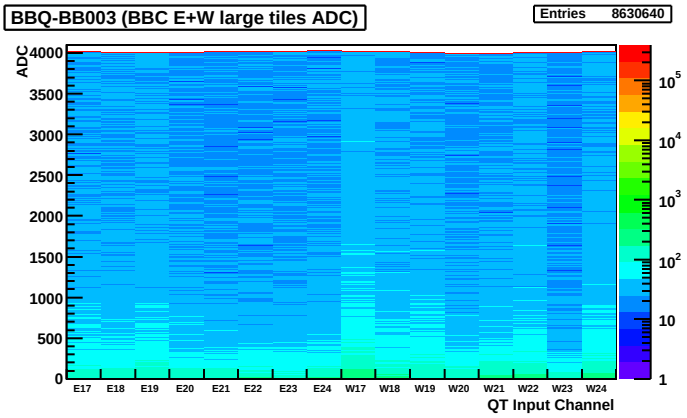

L1-TF201
Entries 3236490
Threshold bits
1
0
502598
502612
502993
502387
501308
501846
36817
36803
36422
37028
38107
37569
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

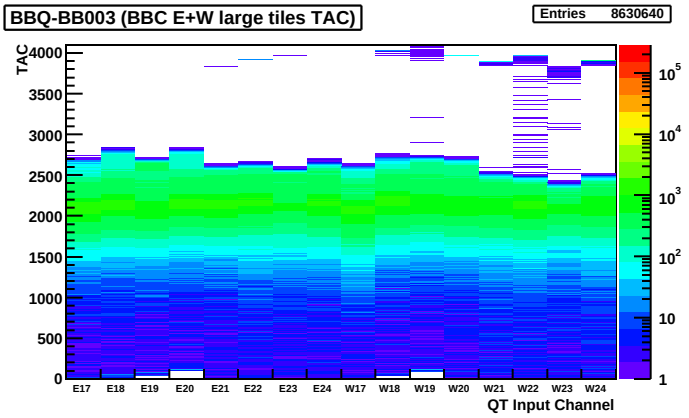

BBQ-BB001 (BBC east small tiles ADC)
Entries 8630640
ADC
QT Input Channel

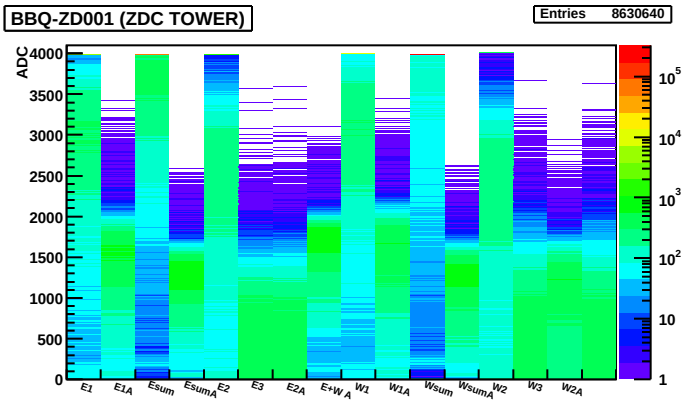

BBQ-BB001 (BBC east small tiles TAC)
Entries 8630640
TAC
QT Input Channel

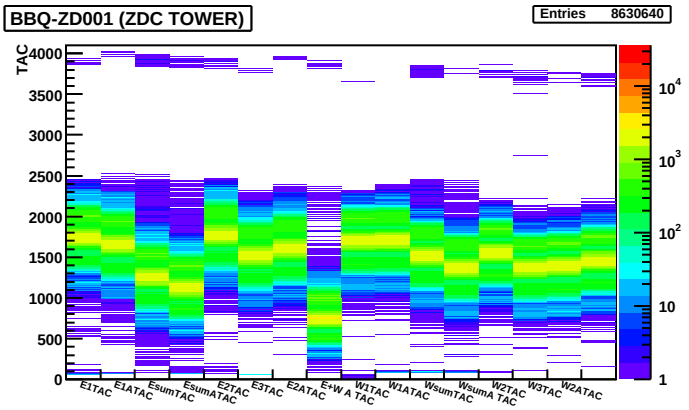

BBQ-BB002 (BBC west small tiles ADC)
Entries 8630640
ADC
QT Input Channel

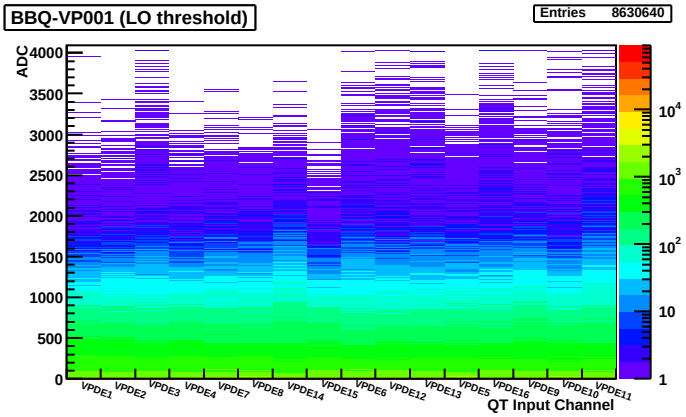

BBQ-BB002 (BBC west small tiles TAC)
Entries 8630640
TAC
QT Input Channel

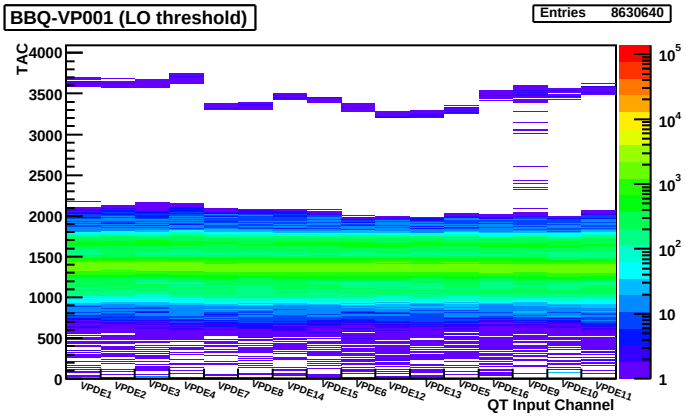

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 8630640
ADC
QT Input Channel

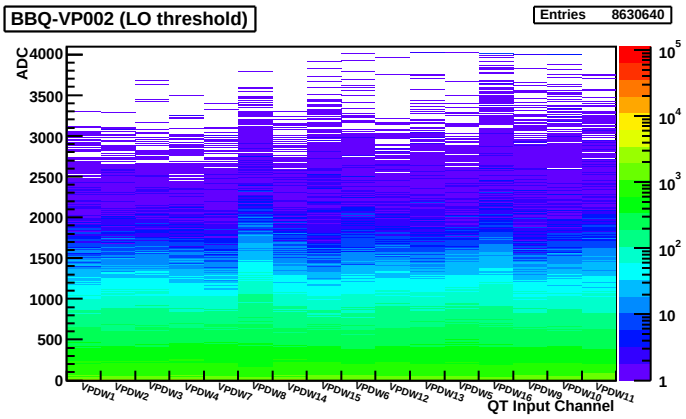

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 8630640
TAC
QT Input Channel

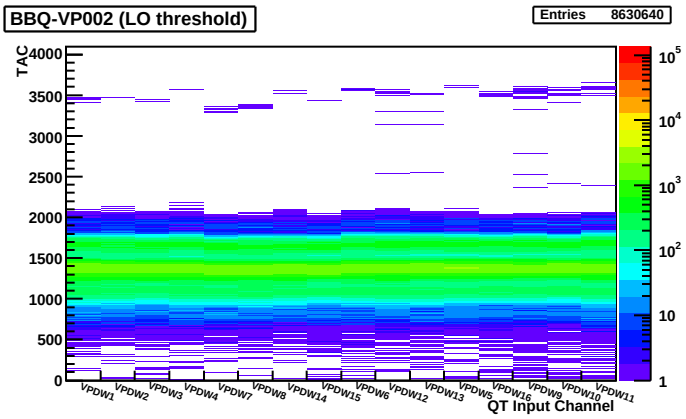

BBQ-ZD001 (ZDC TOWER)
Entries 8630640
ADC

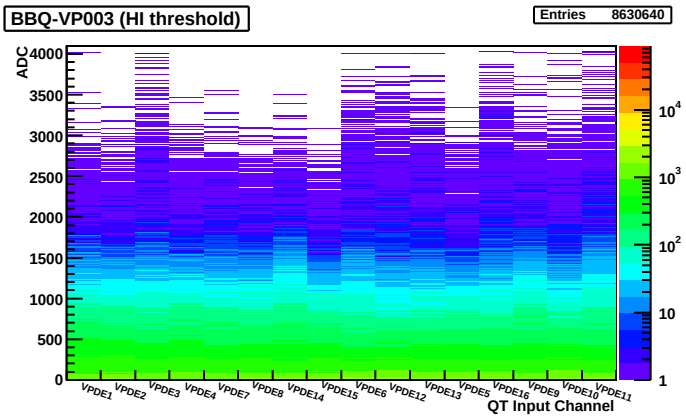

BBQ-ZD001 (ZDC TOWER)
Entries 8630640
TAC

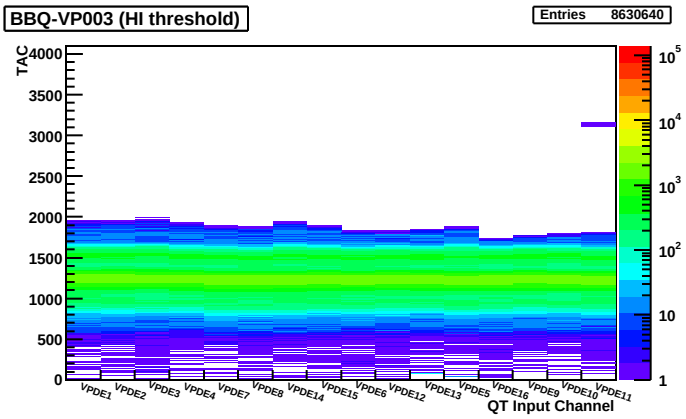

BBQ-VP001 (LO threshold)
Entries 8630640
ADC
QT Input Channel

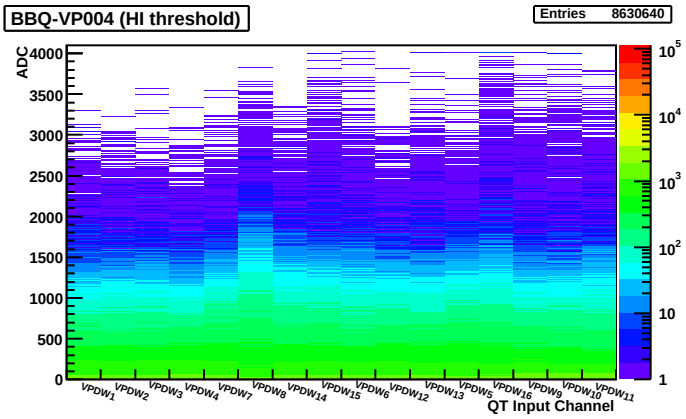

BBQ-VP001 (LO threshold)
Entries 8630640
TAC
QT Input Channel

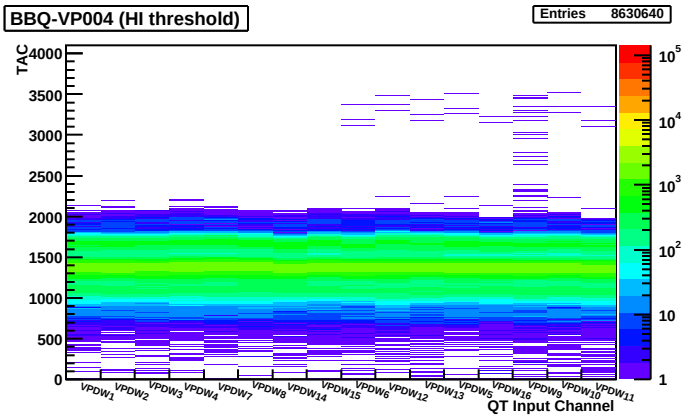

BBQ-VP002 (LO threshold)
Entries 8630640
ADC
QT Input Channel

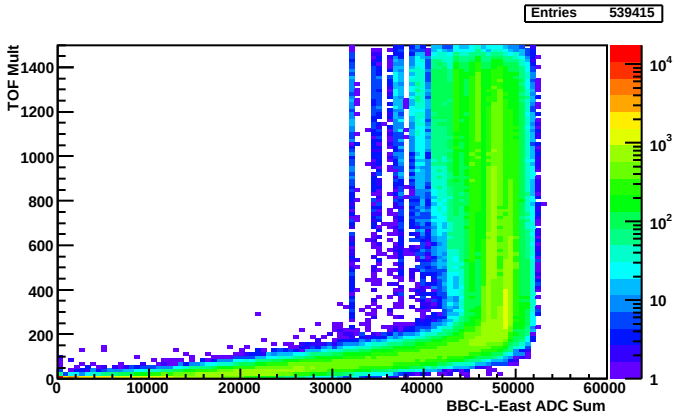

BBQ-VP002 (LO threshold)
Entries 8630640
TAC
QT Input Channel

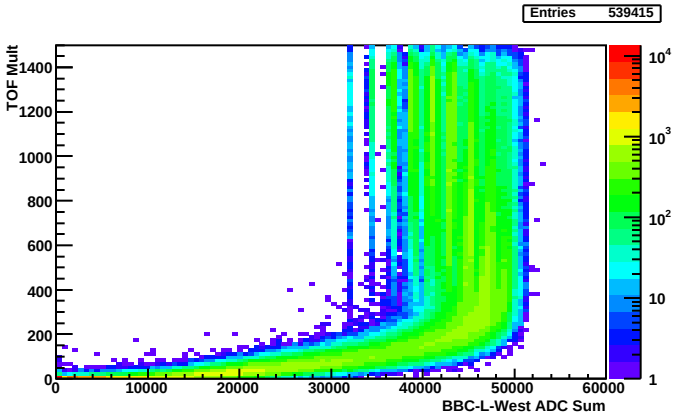

BBQ-VP003 (HI threshold)
Entries 8630640
ADC
QT Input Channel

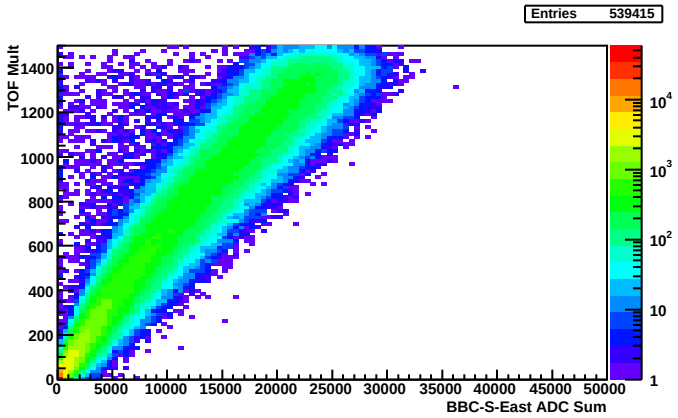

BBQ-VP003 (HI threshold)
Entries 8630640
TAC
QT Input Channel

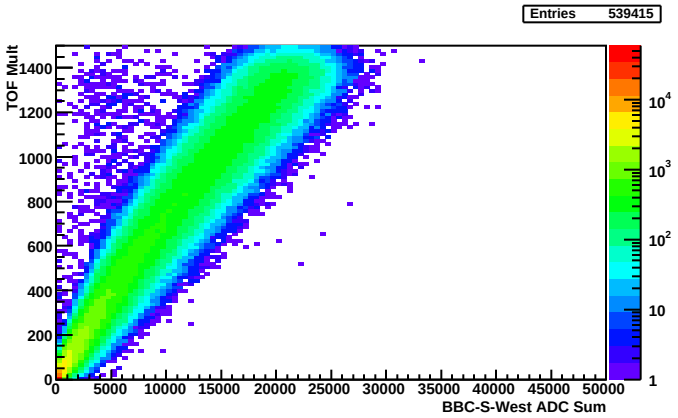

BBQ-VP004 (HI threshold)
Entries 8630640
ADC
QT Input Channel

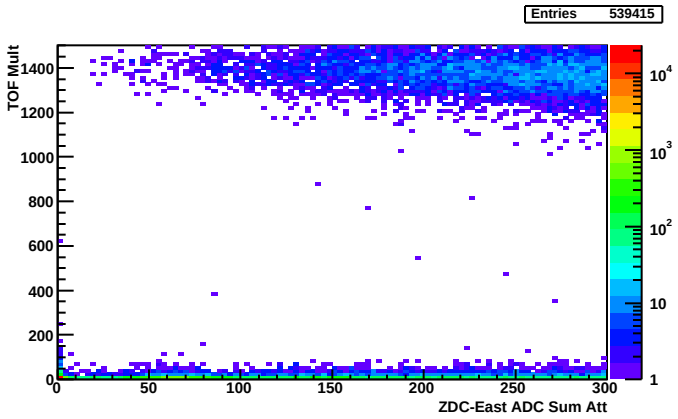

BBQ-VP004 (HI threshold)
Entries 8630640
TAC
QT Input Channel

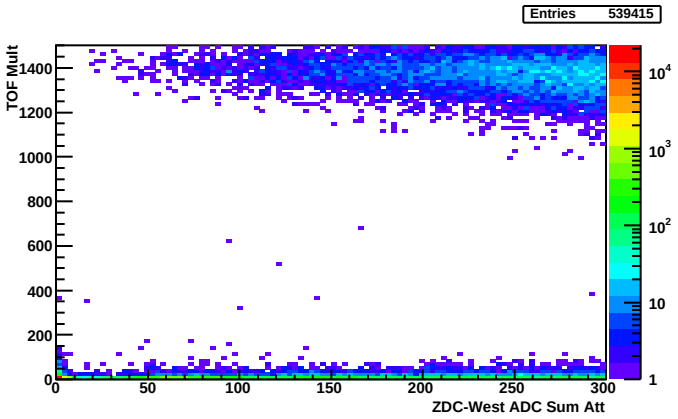

Entries 539415
TOF Mult
BBC-L-East ADC Sum

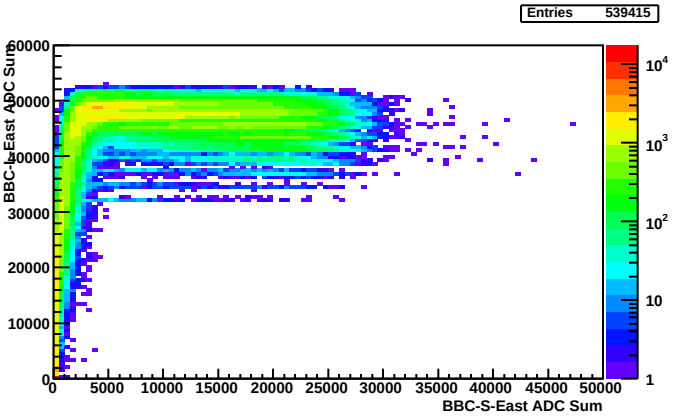

Entries 539415
TOF Mult
BBC-L-West ADC Sum

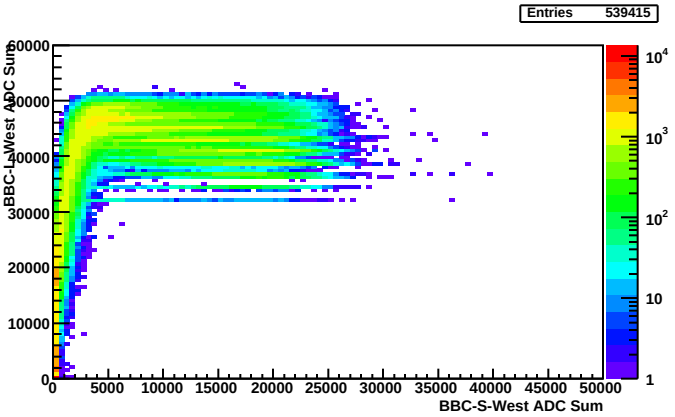

Entries 539415
TOF Mult
BBC-S-East ADC Sum

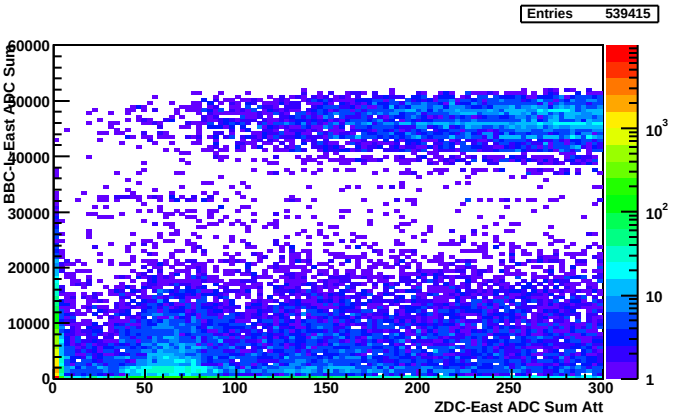

Entries 539415
TOF Mult
BBC-S-West ADC Sum

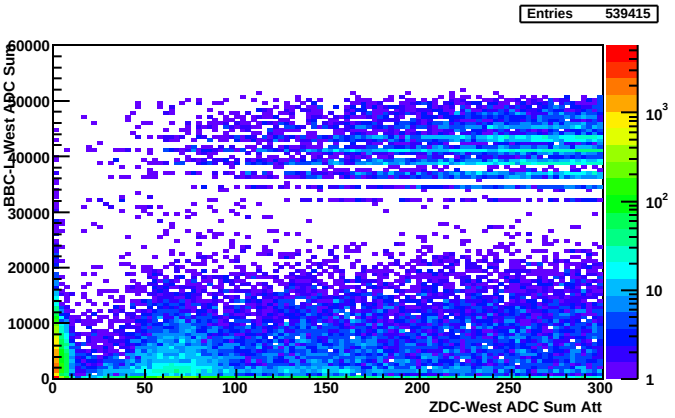

Entries 539415
TOF Mult
ZDC-East ADC Sum Att


Entries 539415
TOF Mult
ZDC-West ADC Sum Att


Entries 539415
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 539415
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 539415
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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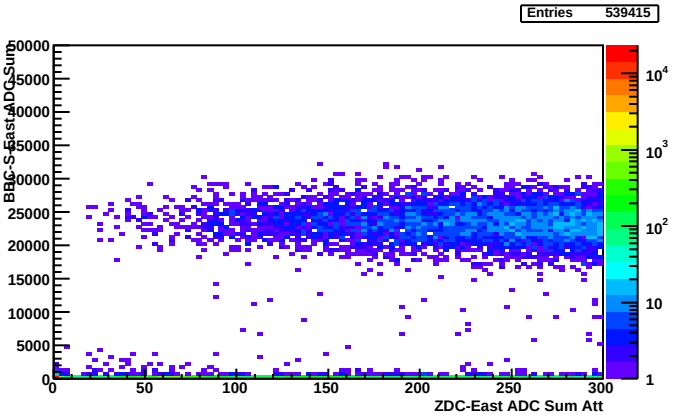
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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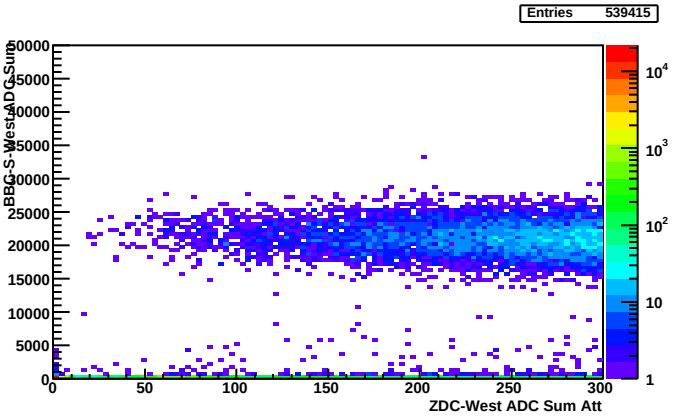
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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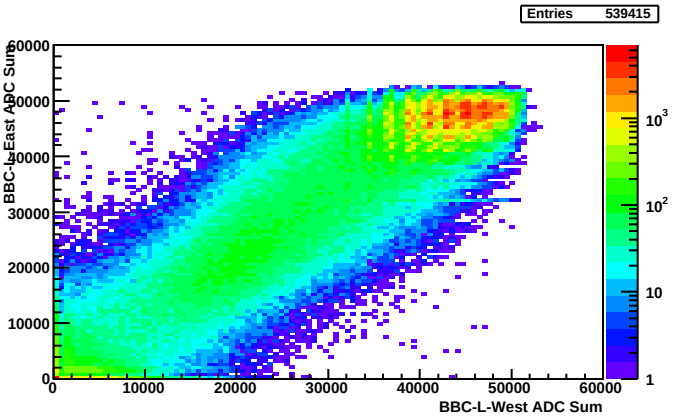
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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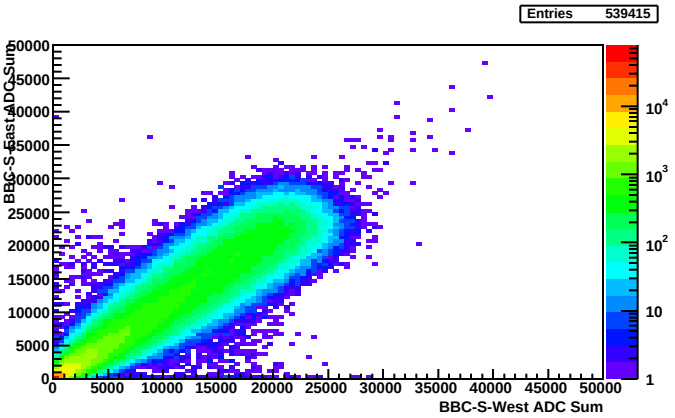
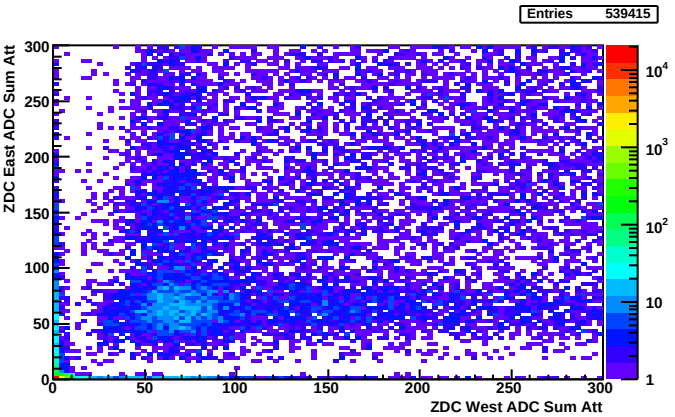
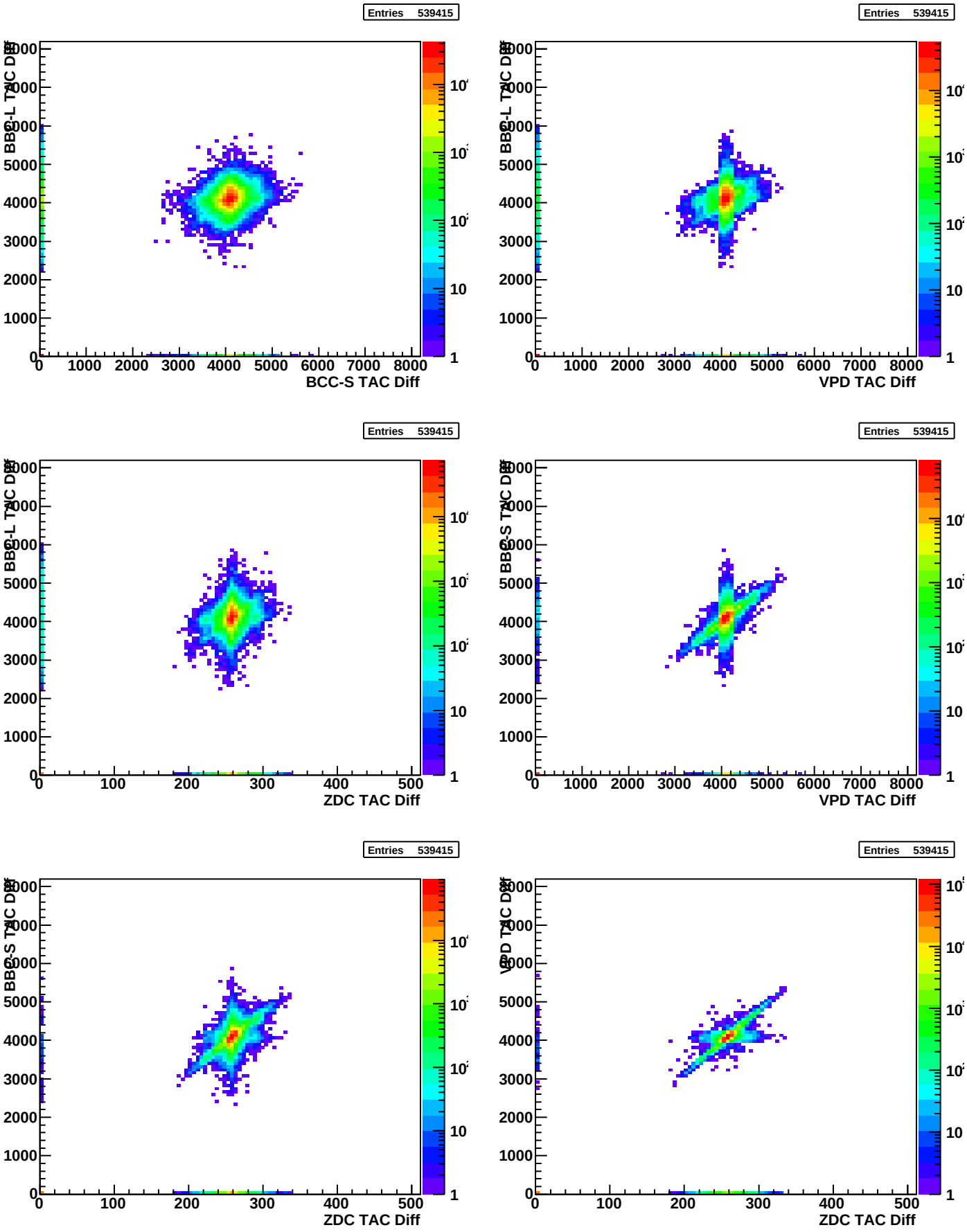
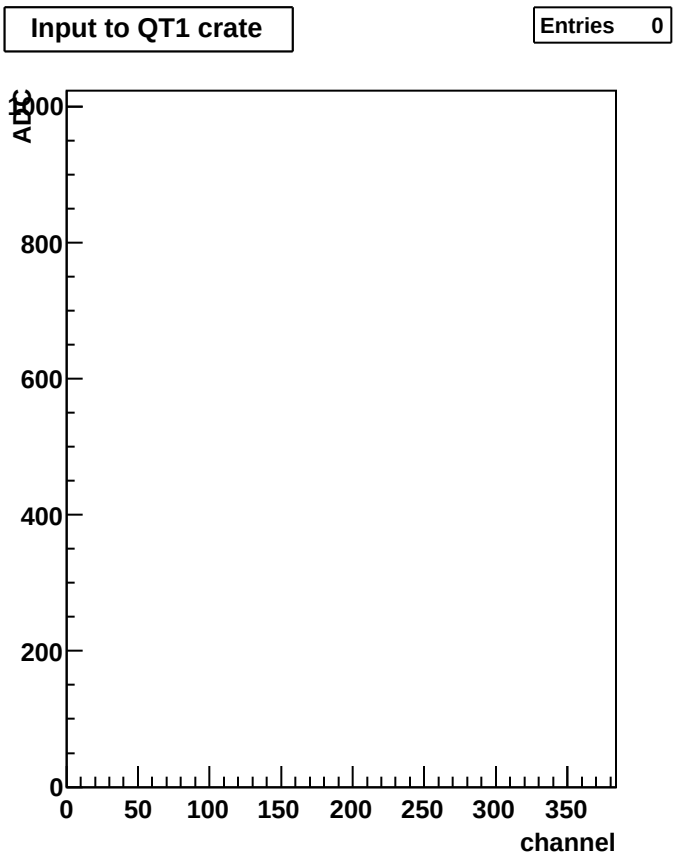
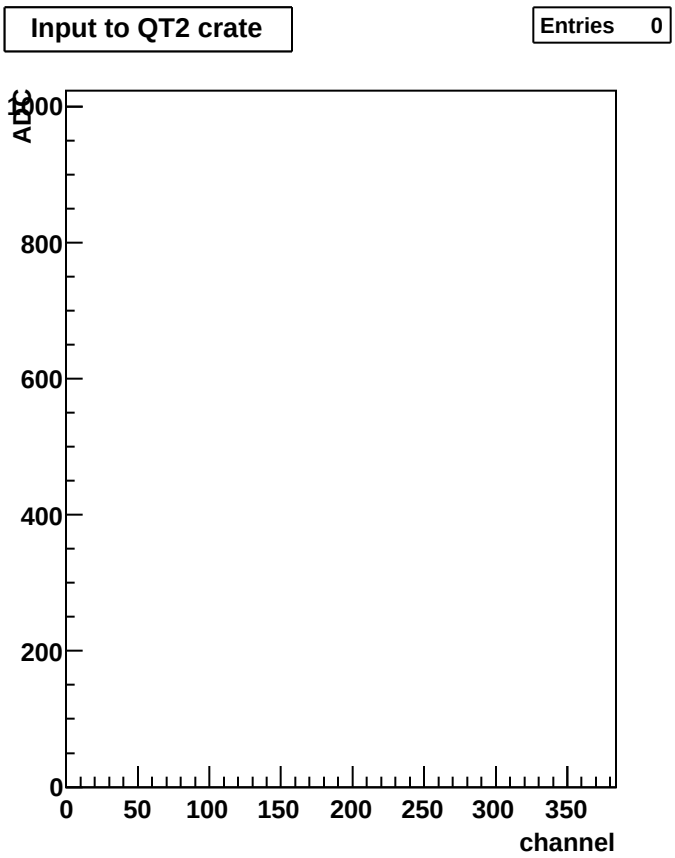
BBC-L-East ADC Sum
BBC-L-West ADC Sum

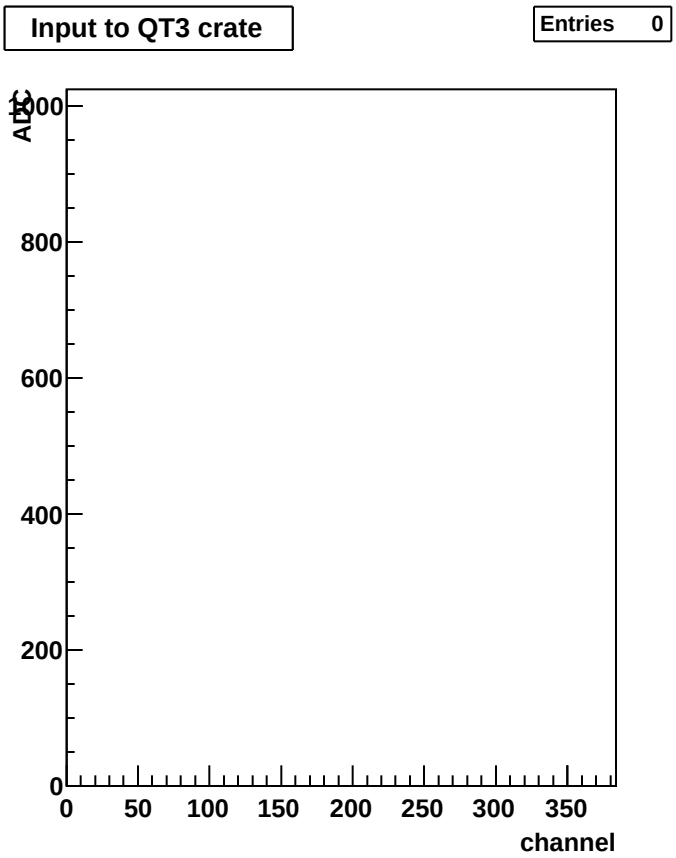

Entries 539415
BBC-S-East ADC Sum
BBC-S-West ADC Sum

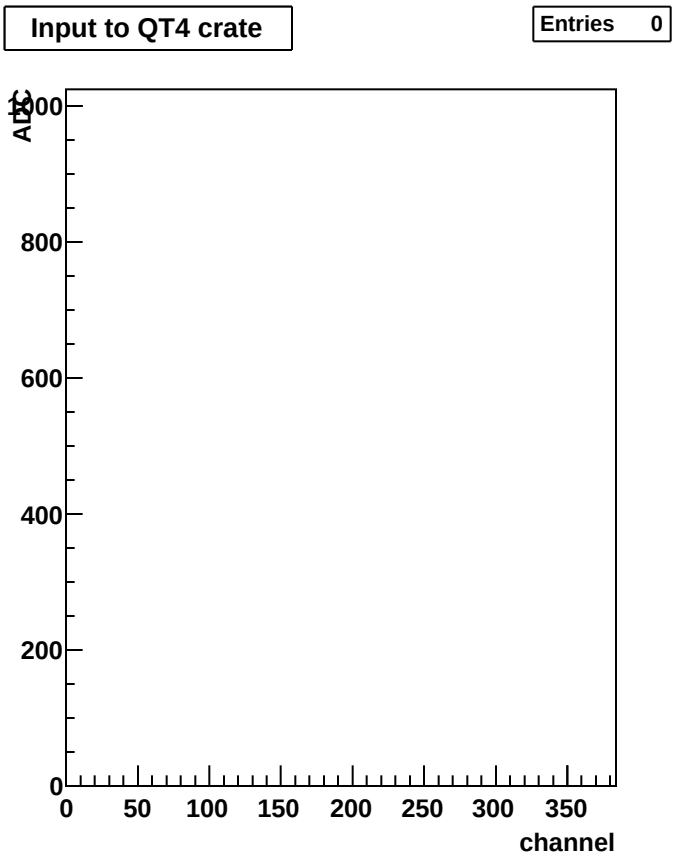

Entries 539415
ZDC East ADC Sum Att
ZDC West ADC Sum Att

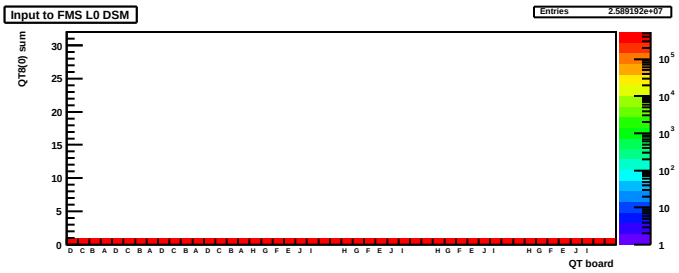

Entries 539415
BBC-L TAC Diff
BCC-S TAC Diff
Entries 539415
BBC-L TAC Diff
VPD TAC Diff
Entries 539415
BBC-L TAC Diff
ZDC TAC Diff
Entries 539415
BBC-S TAC Diff
VPD TAC Diff
Entries 539415
BBC-S TAC Diff
ZDC TAC Diff
Entries 539415
VPD TAC Diff
ZDC TAC Diff

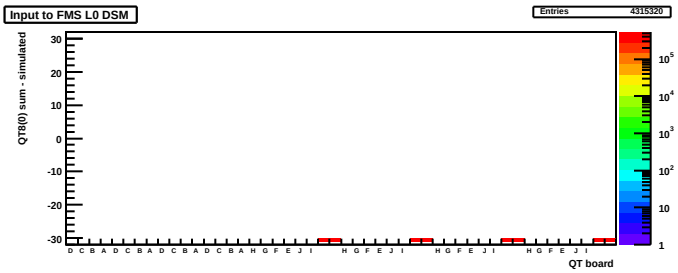

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

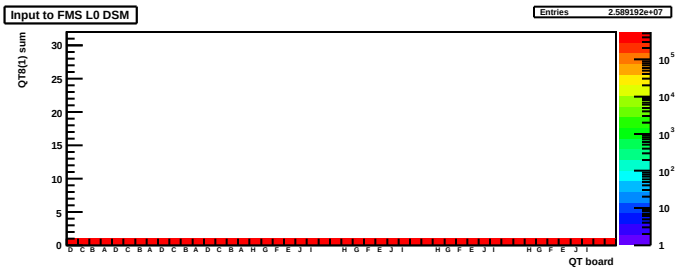

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

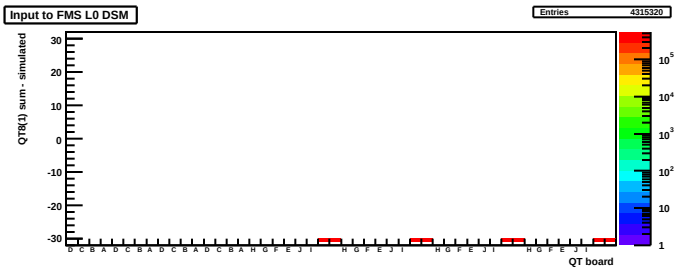

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

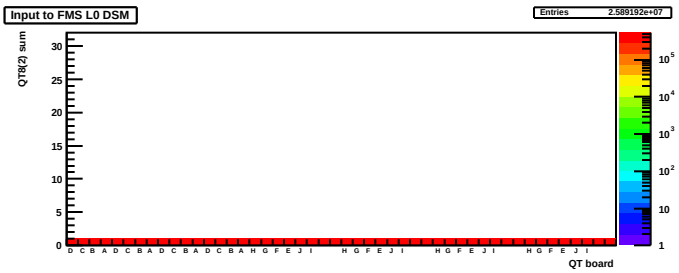

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

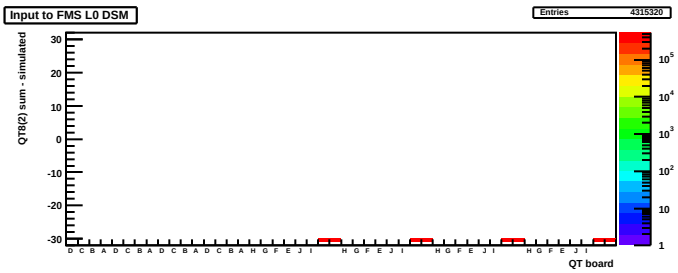

Input to FMS L0 DSM
Entries 2.589192e+07
QT8(0) sum
QT board

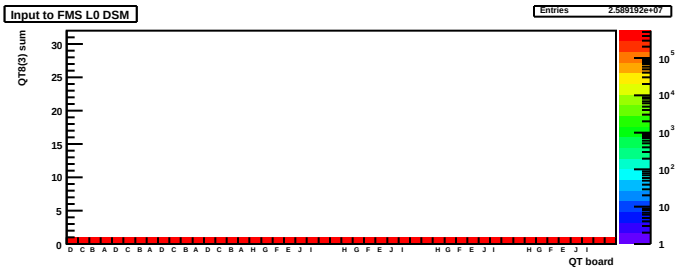

Input to FMS L0 DSM
Entries 4315320
QT8(0) sum - simulated
QT board

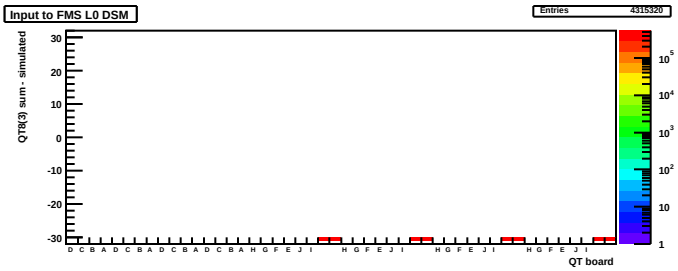

Input to FMS L0 DSM
Entries 2.589192e+07
QT8(1) sum
QT board

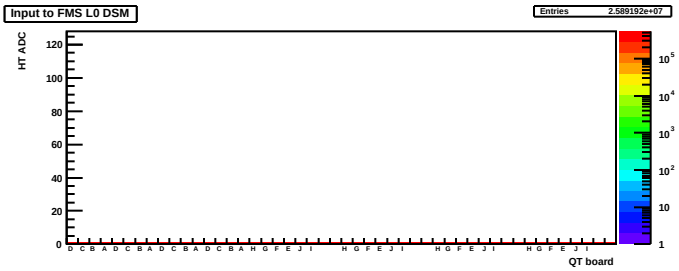

Input to FMS L0 DSM
Entries 4315320
QT8(1) sum - simulated
QT board

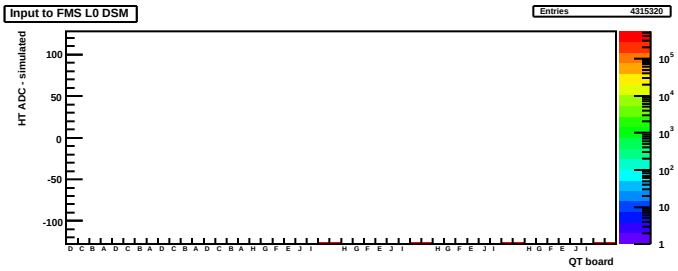

Input to FMS L0 DSM
Entries 2.589192e+07
QT8(2) sum
QT board

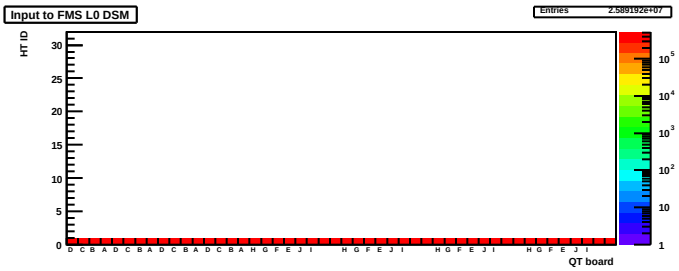

Input to FMS L0 DSM
Entries 4315320
QT8(2) sum - simulated
QT board

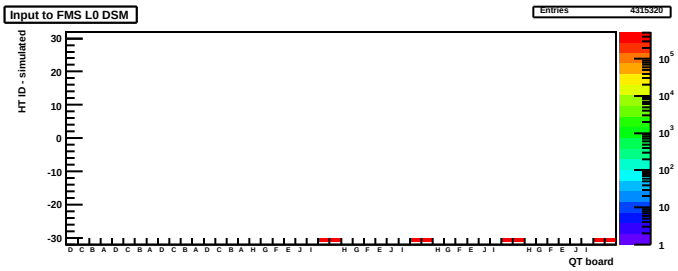

Input to FMS L0 DSM
Entries 2.589192e+07
QT8(3) sum
QT board

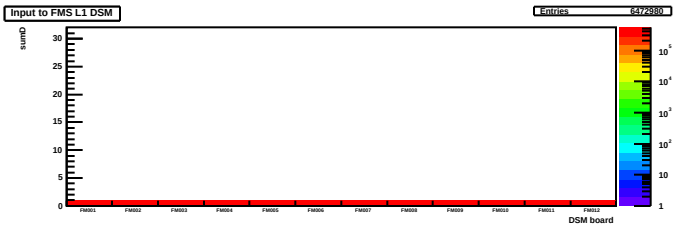

Input to FMS L0 DSM
Entries 4315320
QT8(3) sum - simulated
QT board

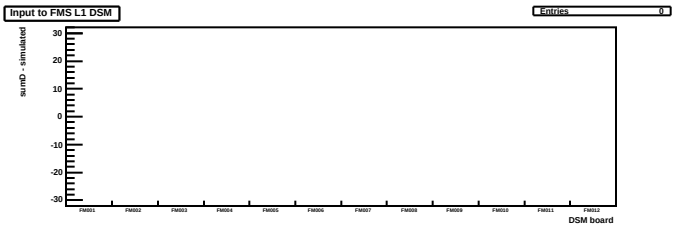

Input to FMS L0 DSM
Entries 2.589192e+07
HT ADC
QT board

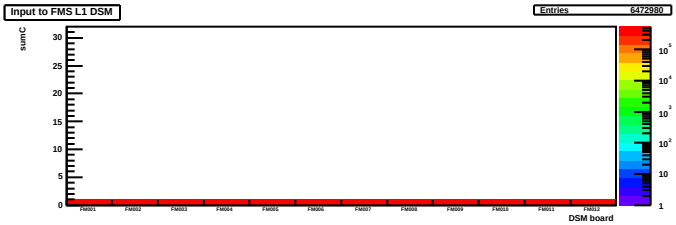

Input to FMS L0 DSM
Entries 4315320
HT ADC - simulated
QT board

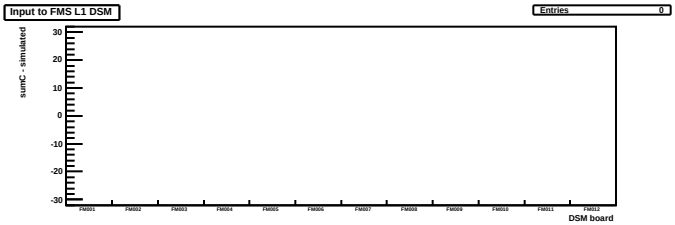

Input to FMS L0 DSM
Entries 2.589192e+07
HT ID
QT board

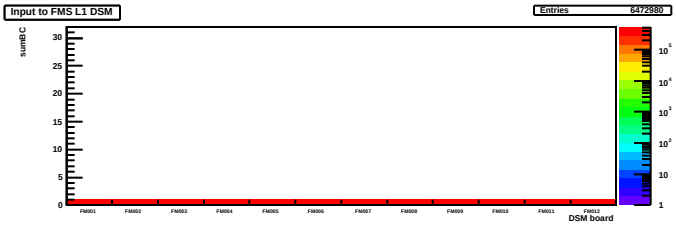

Input to FMS L0 DSM
Entries 4315320
HT ID - simulated
QT board

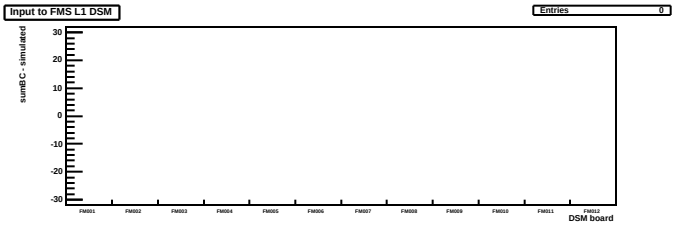

Input to FMS L1 DSM
Entries 6472980
sumD
DSM board

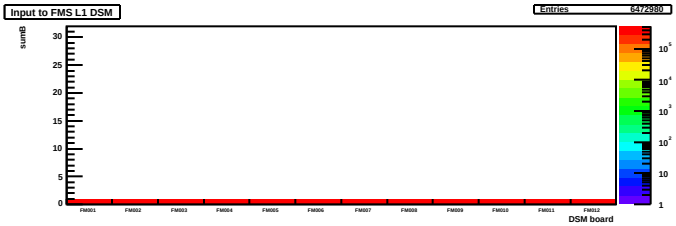

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

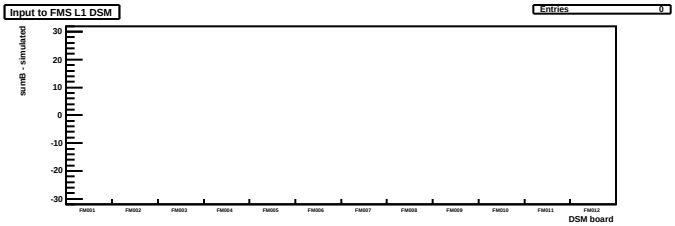

Input to FMS L1 DSM
Entries 6472980
sumC
DSM board

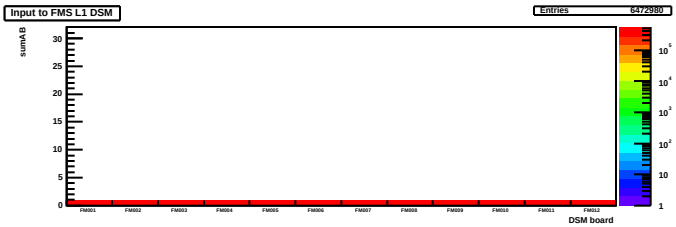

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

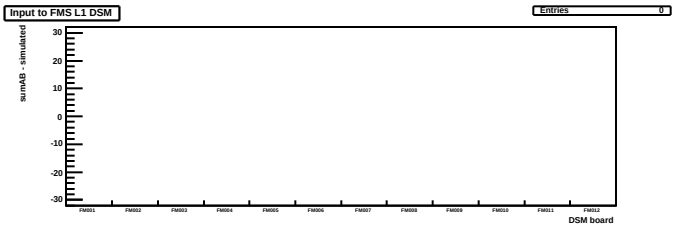

Input to FMS L1 DSM
Entries 6472980
sumBC
DSM board

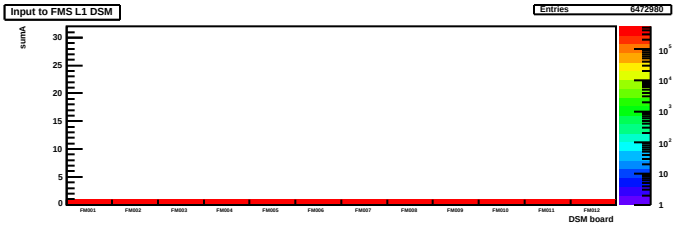

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

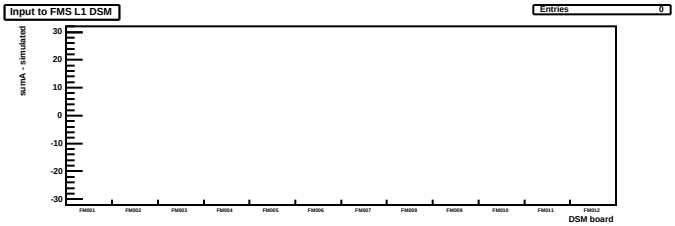

Input to FMS L1 DSM
Entries 6472980
sumB
DSM board

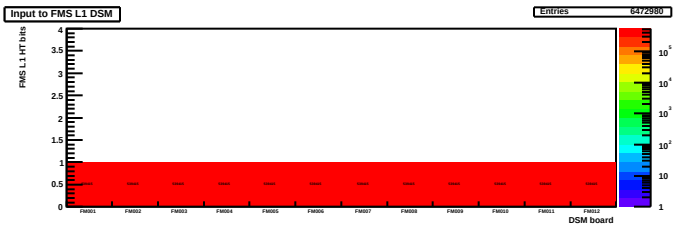

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

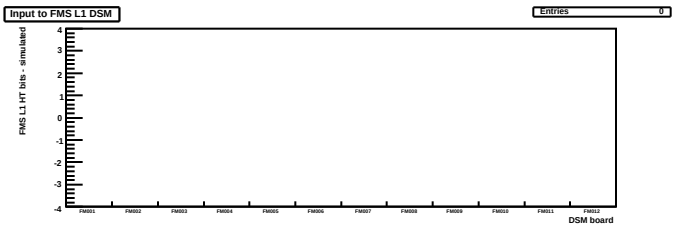

Input to FMS L1 DSM
Entries 6472980
sumAB
DSM board

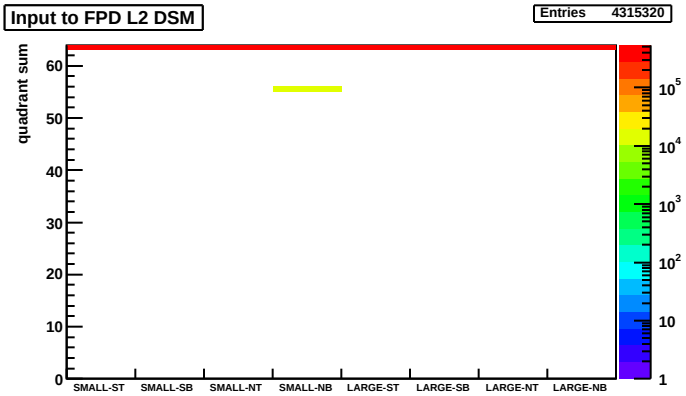

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

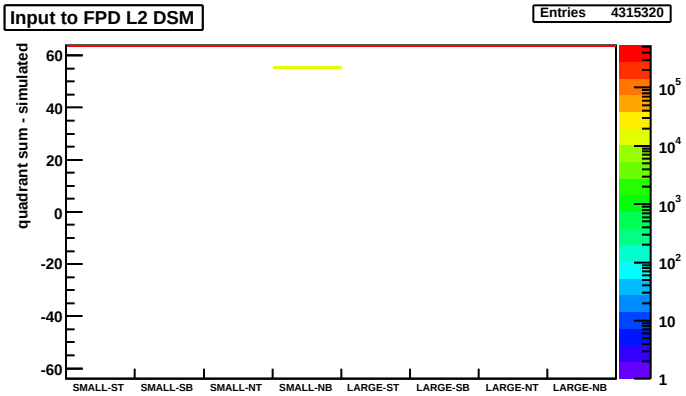

Input to FMS L1 DSM
Entries 6472980
sumA
DSM board

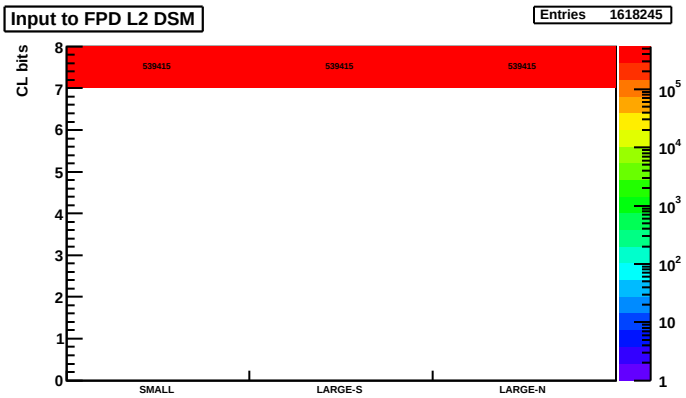

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

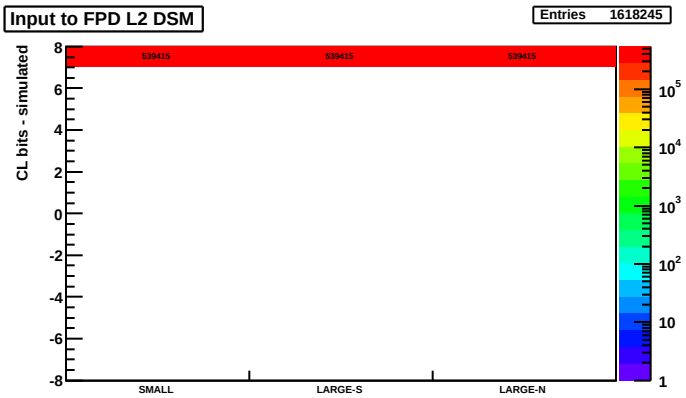

Input to FMS L1 DSM
Entries 6472980
FMS L1 HT bits
DSM board

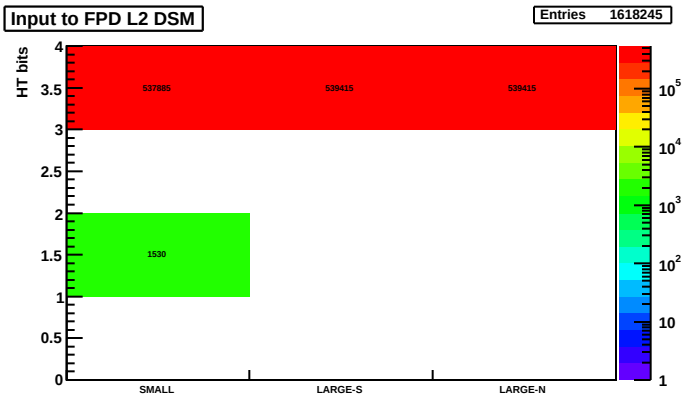

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

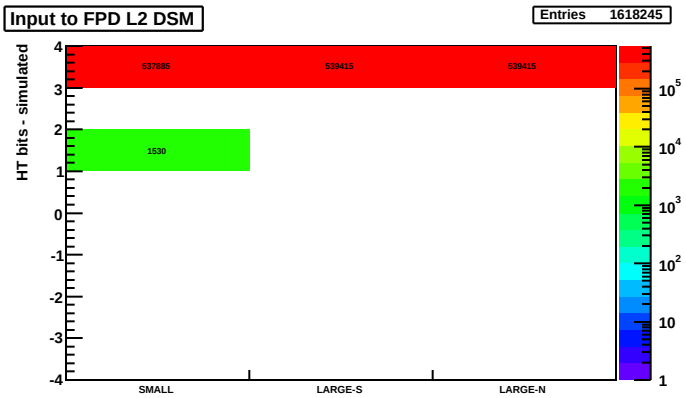

Input to FPD L2 DSM
Entries 4315320
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

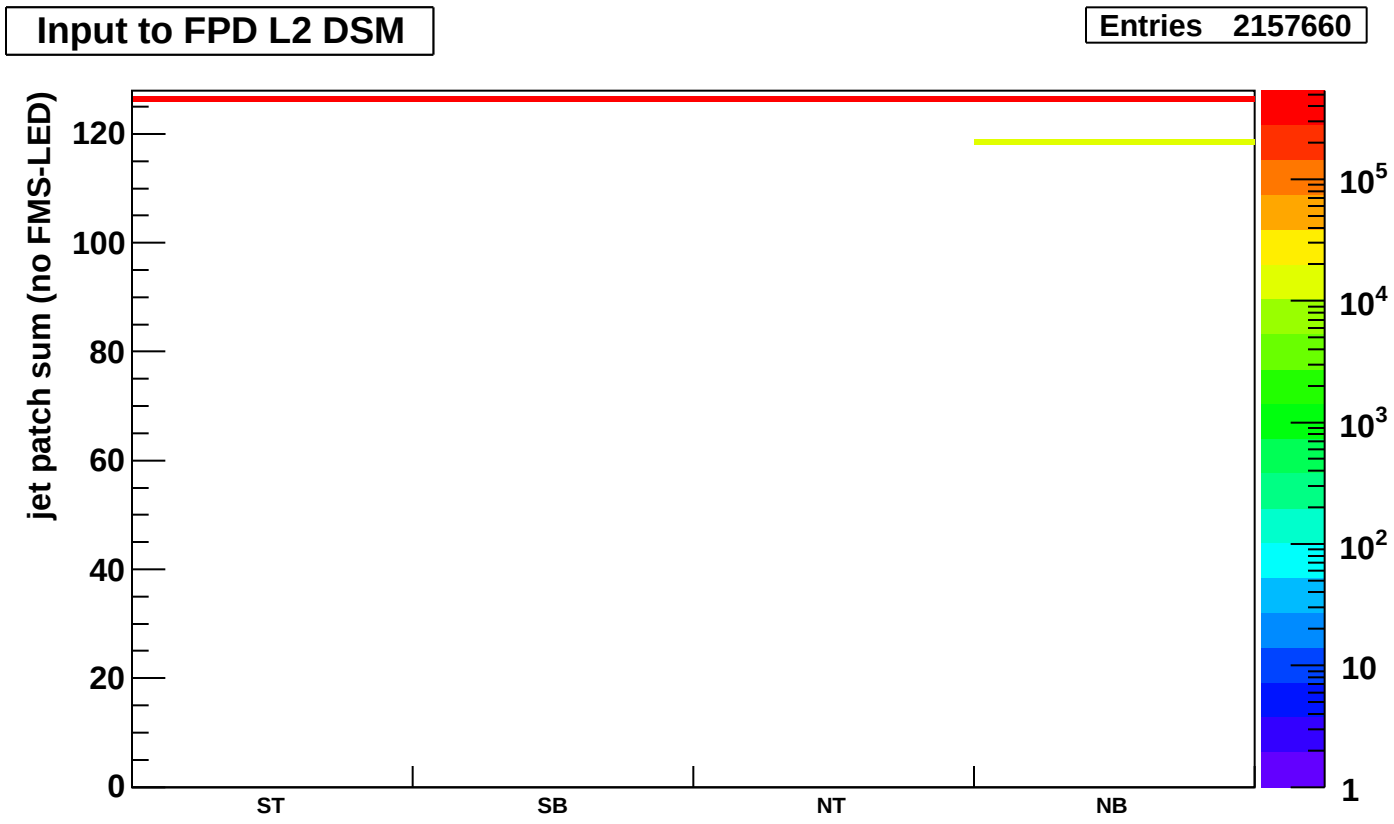

Input to FPD L2 DSM
Entries 4315320
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

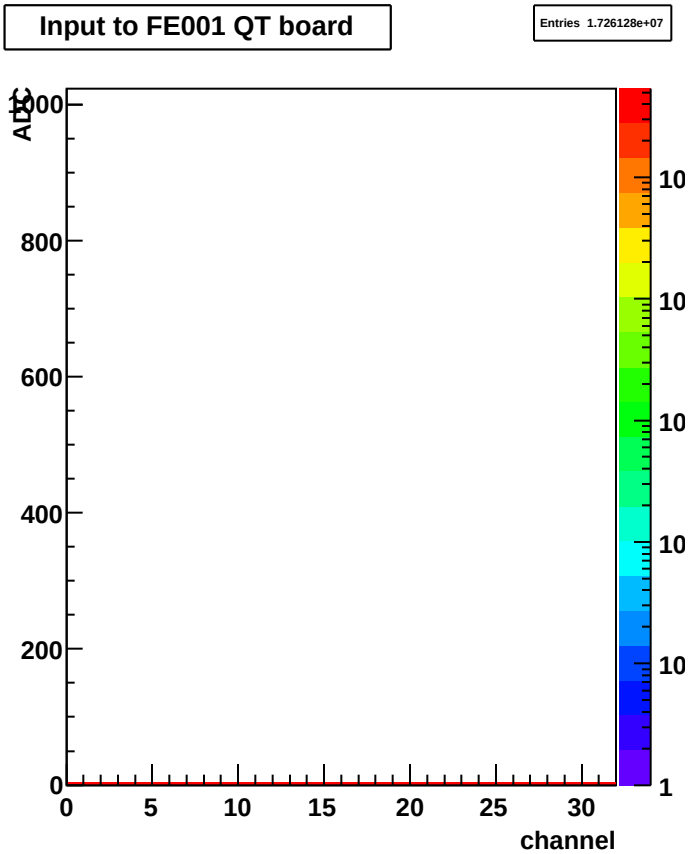

Input to FPD L2 DSM
Entries 1618245
CL bits
539415
539415
539415
SMALL
LARGE-S
LARGE-N

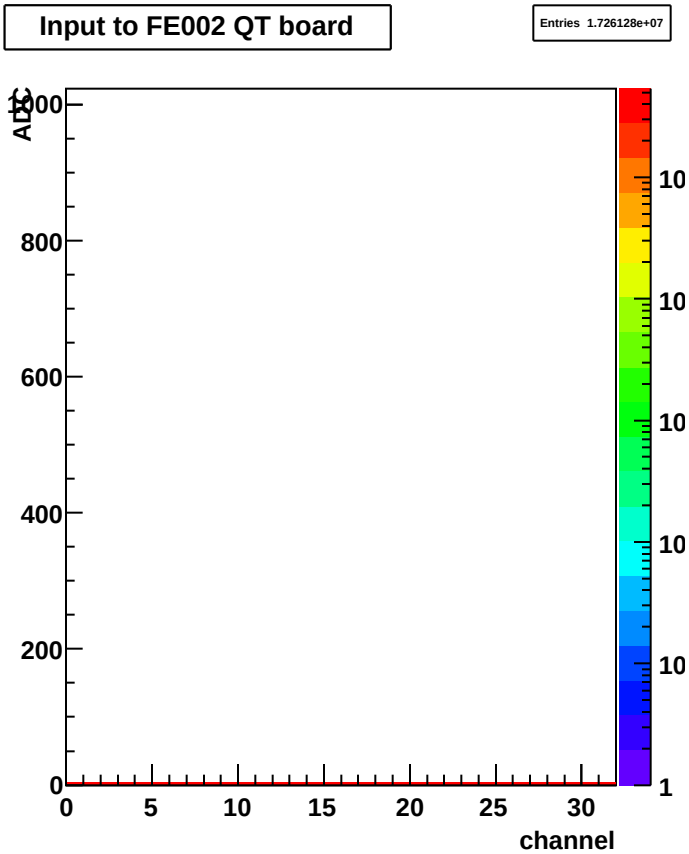

Input to FPD L2 DSM
Entries 1618245
CL bits - simulated
539415
539415
539415
SMALL
LARGE-S
LARGE-N

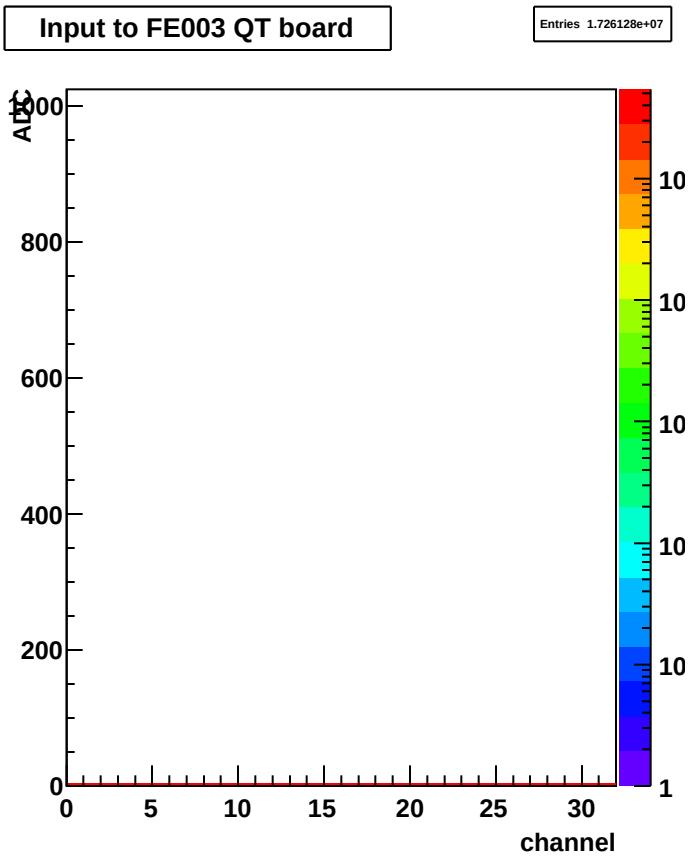

Input to FPD L2 DSM
Entries 1618245
HT bits
537885
539415
539415
1530
SMALL
LARGE-S
LARGE-N

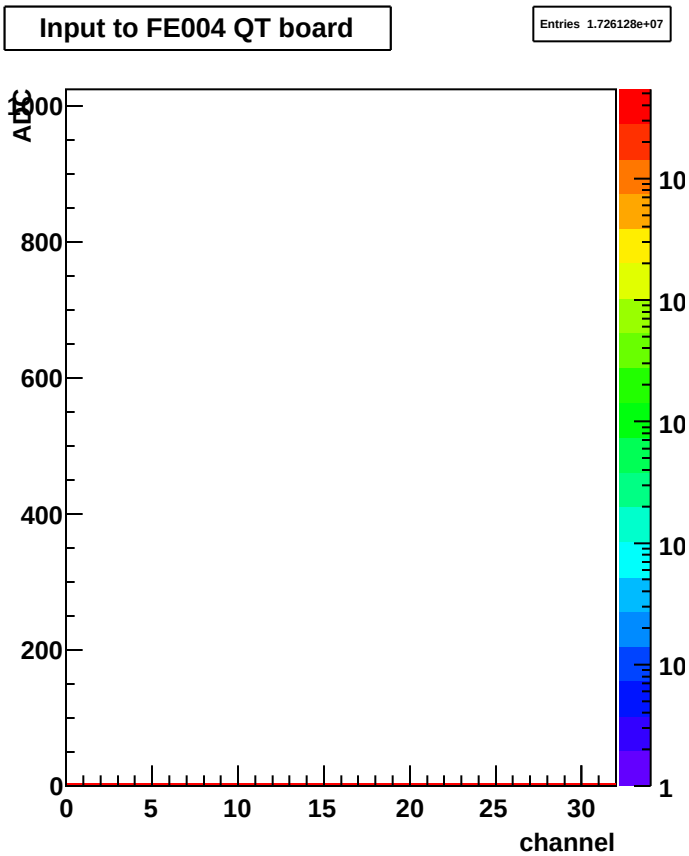

Input to FPD L2 DSM
Entries 1618245
HT bits - simulated
537885
539415
539415
1530
SMALL
LARGE-S
LARGE-N

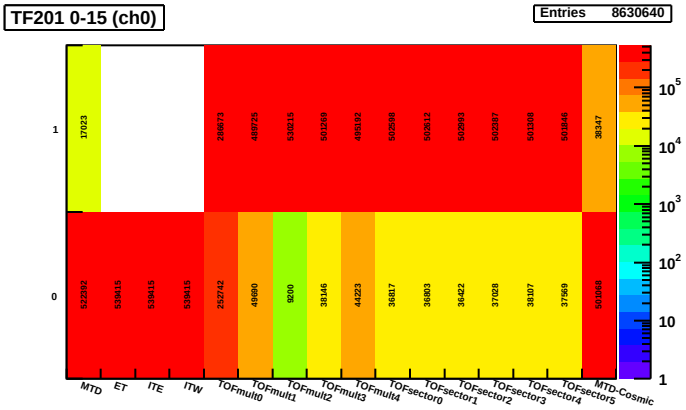

Input to FPD L2 DSM
Entries 2157660
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

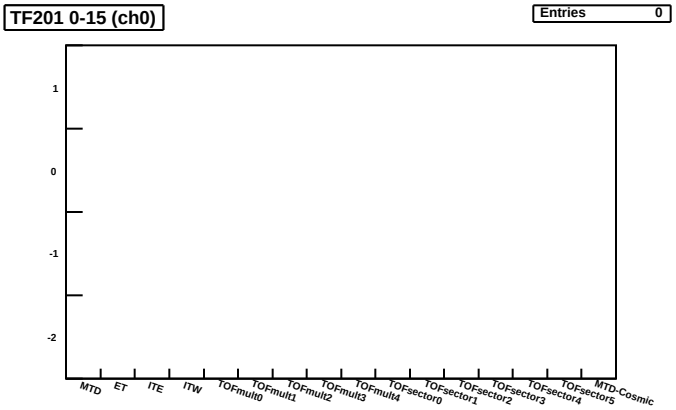

Input to FE001 QT board
Entries 1.726128e+07
ADC
channel

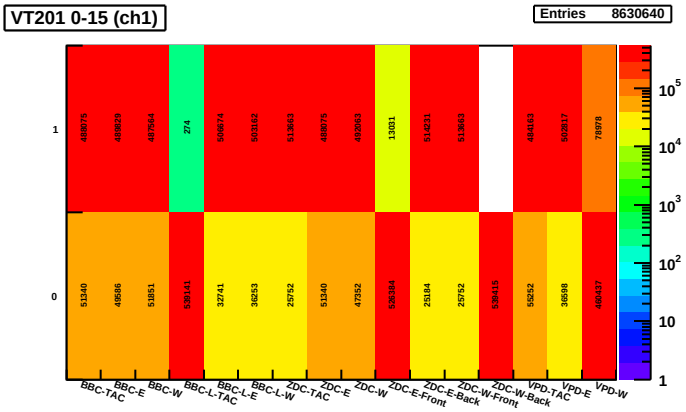

Input to FE002 QT board
Entries 1.726128e+07
ADC
channel

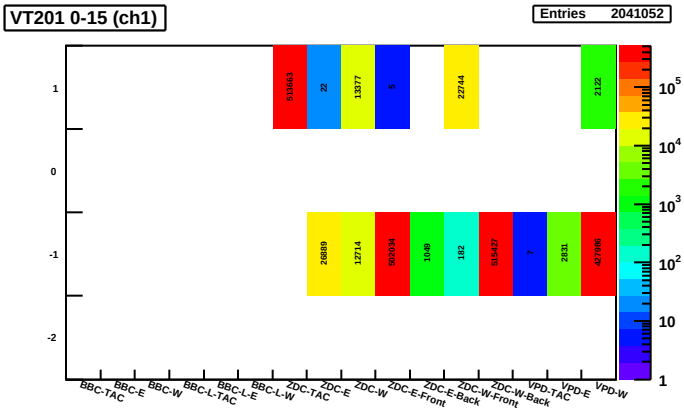

Input to FE003 QT board
Entries 1.726128e+07
ADC
channel

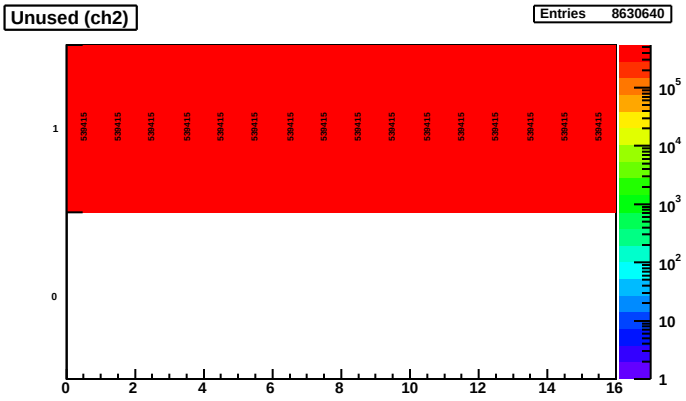

Input to FE004 QT board
Entries 1.726128e+07
ADC
channel

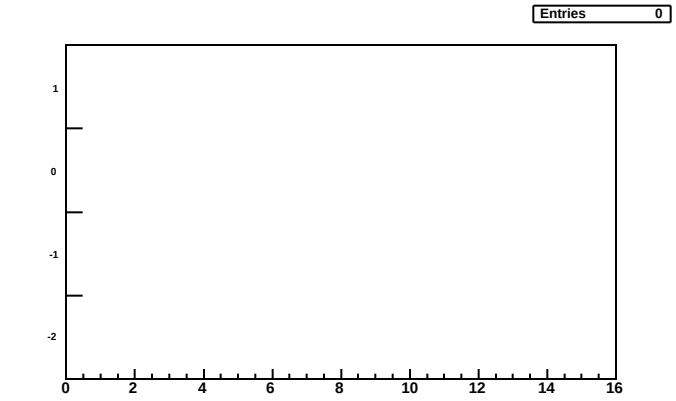

TF201 0-15 (ch0)
Entries 8630640
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

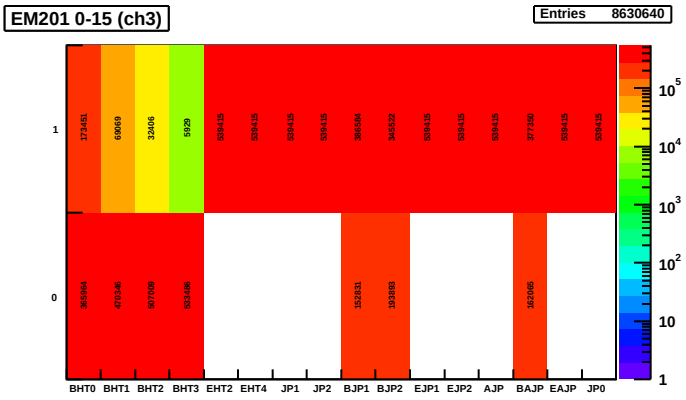

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

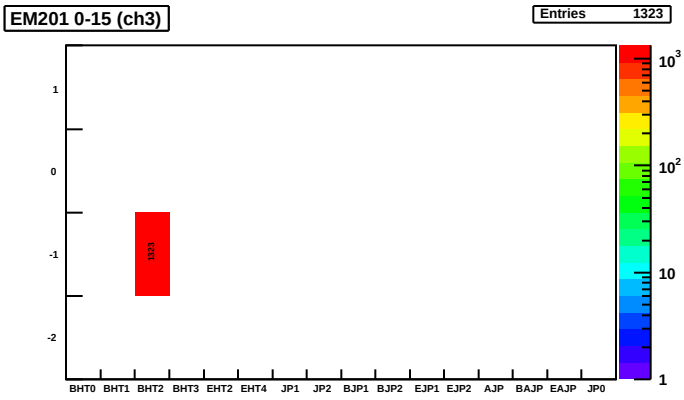

VT201 0-15 (ch1)
Entries 8630640
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 2041052
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

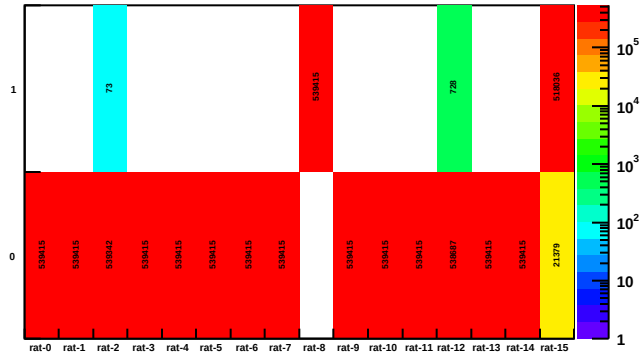

Unused (ch2)
Entries 8630640

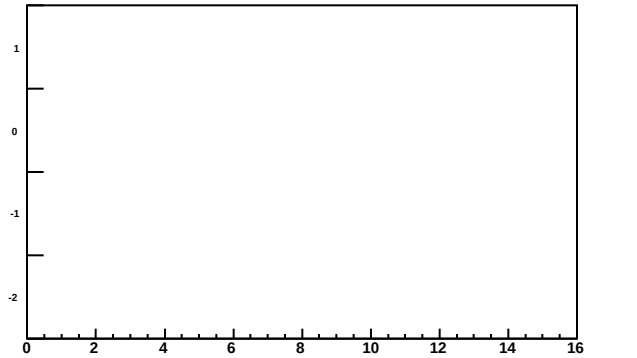

Entries 0


EM201 0-15 (ch3)
Entries 8630640
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

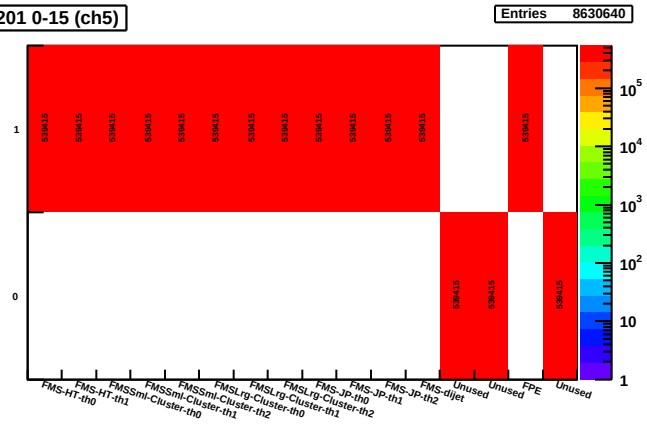

EM201 0-15 (ch3)
Entries 1323
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

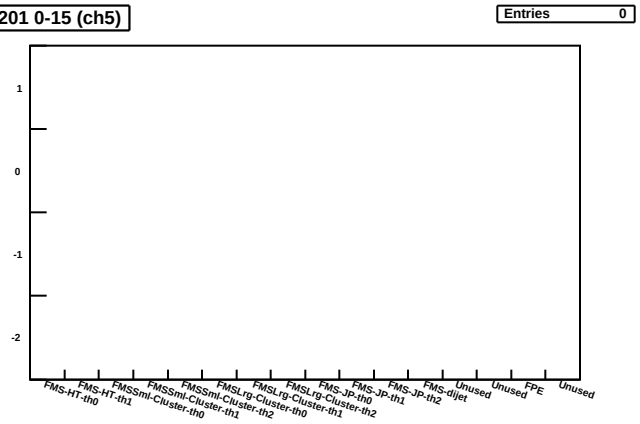




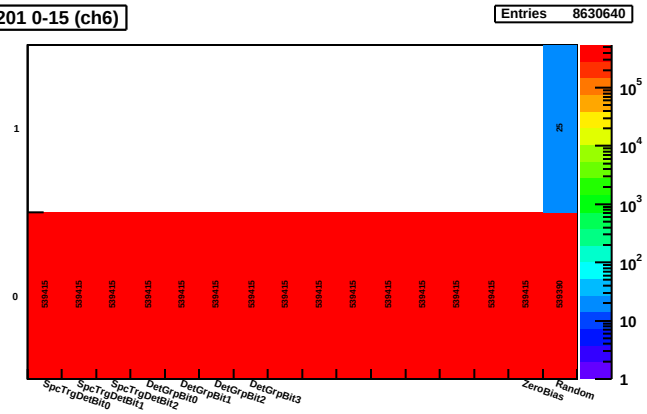
FP201 0-15 (ch5)

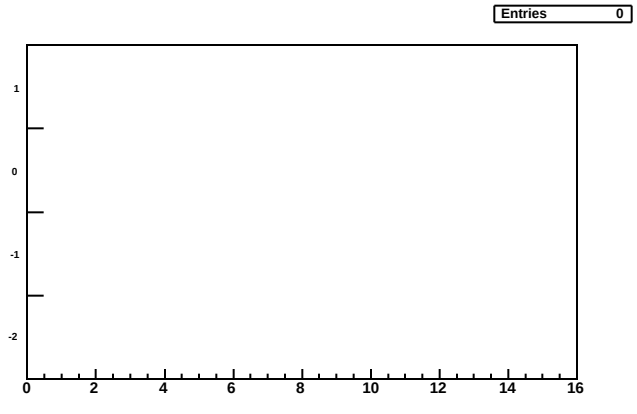
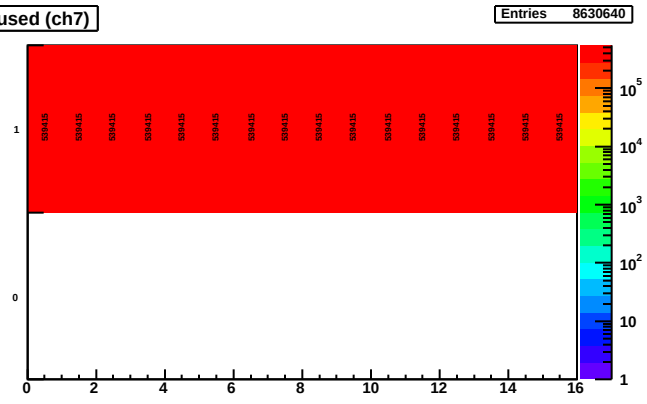
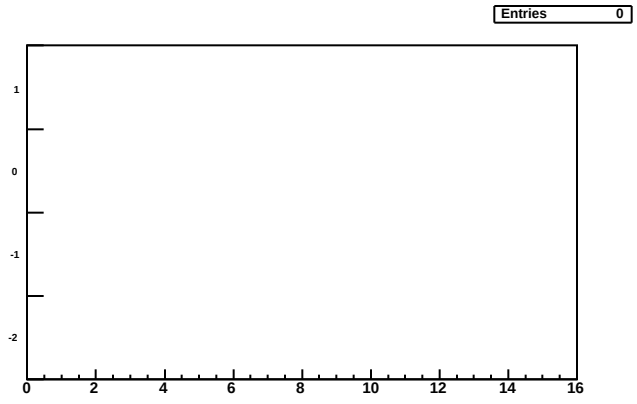


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)