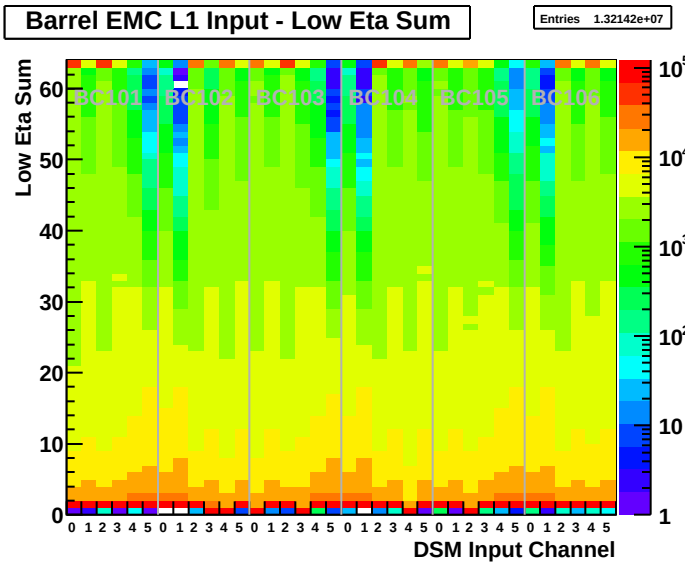
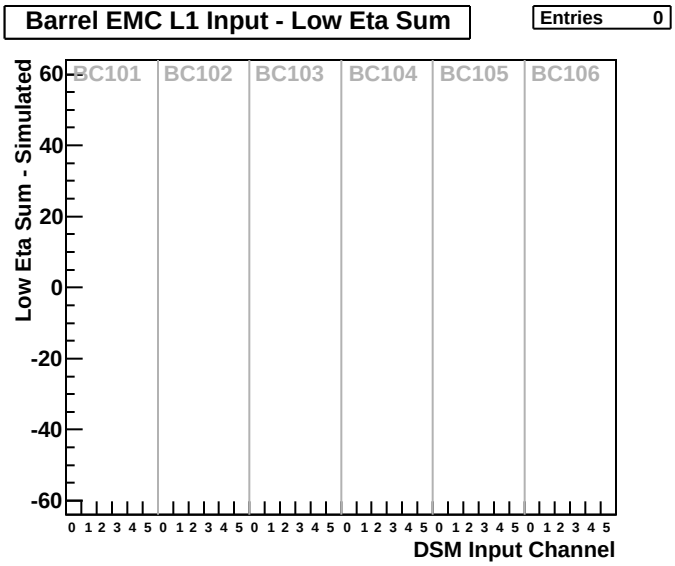
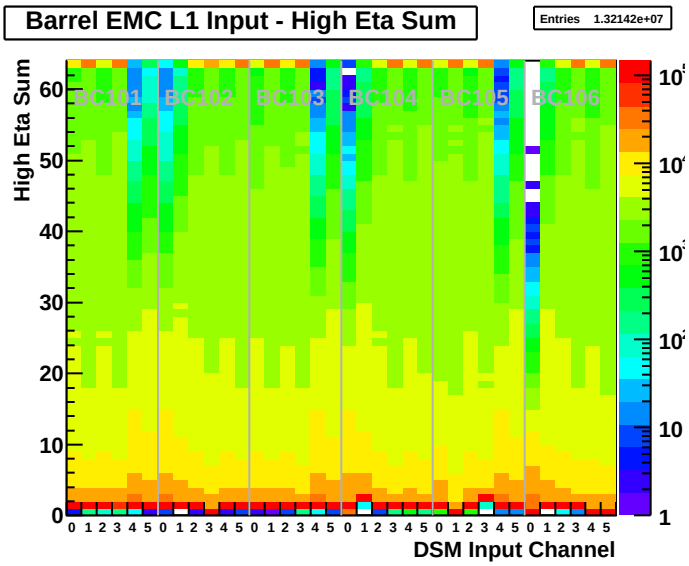
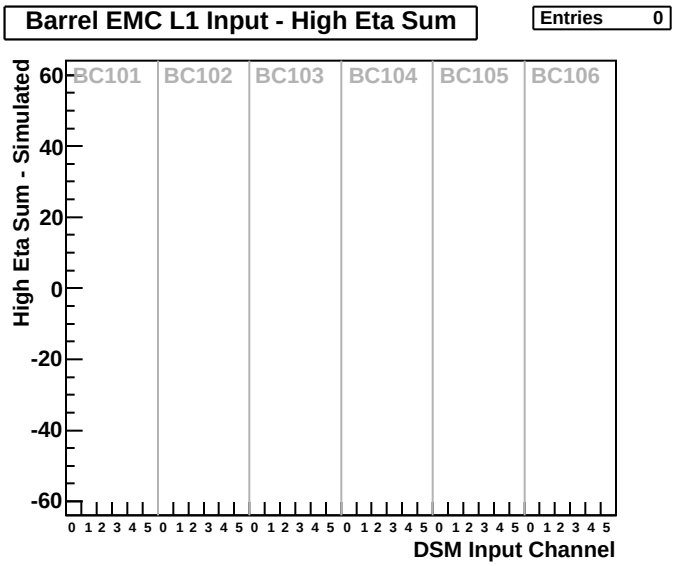
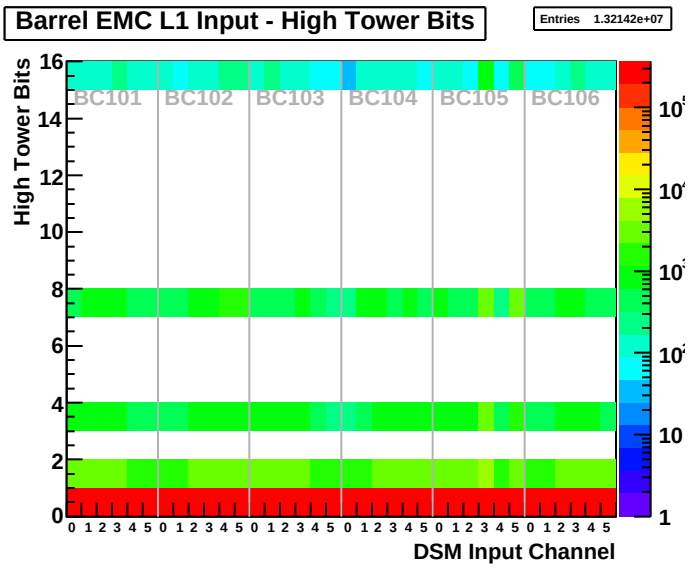
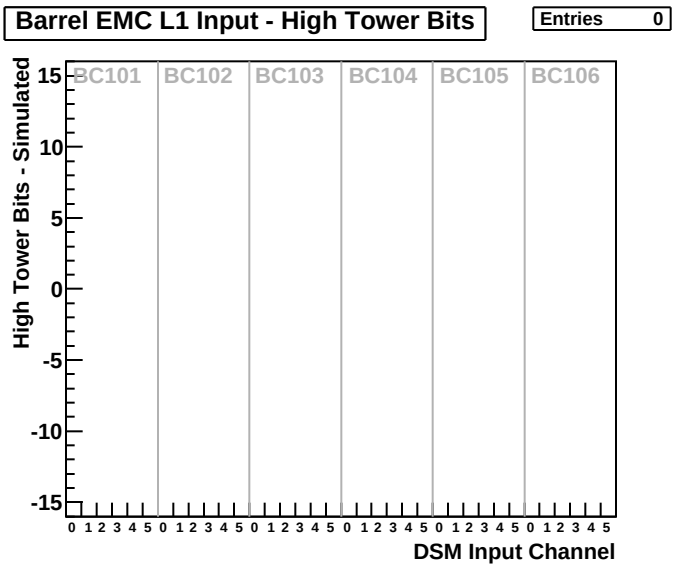

Barrel EMC L1 Input - Low Eta Sum
Entries 1.32142e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

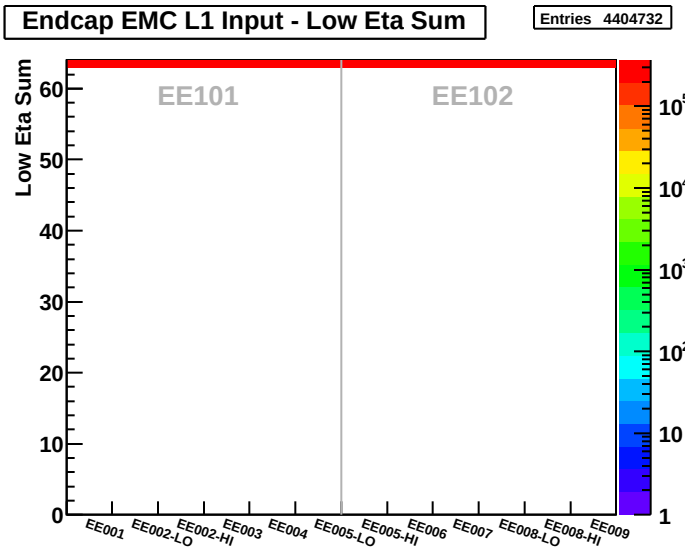

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

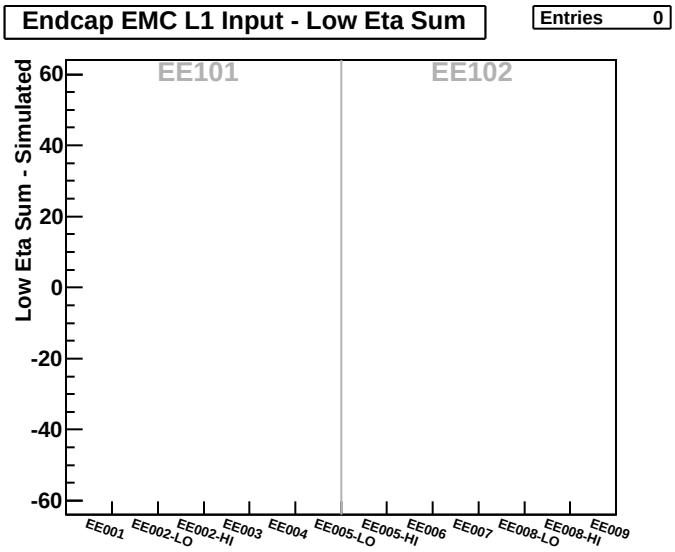

Barrel EMC L1 Input - High Eta Sum
Entries 1.32142e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

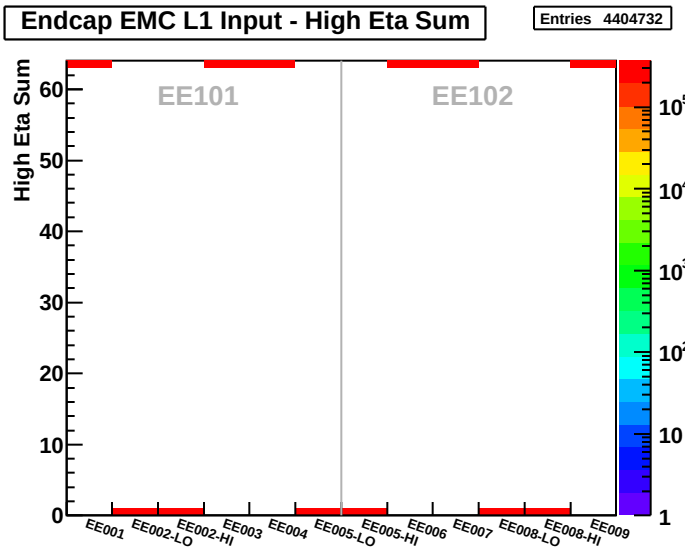

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

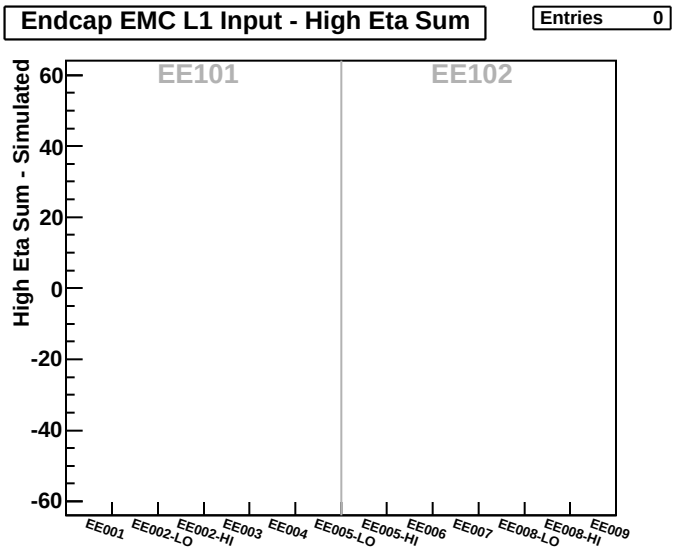

Barrel EMC L1 Input - High Tower Bits
Entries 1.32142e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

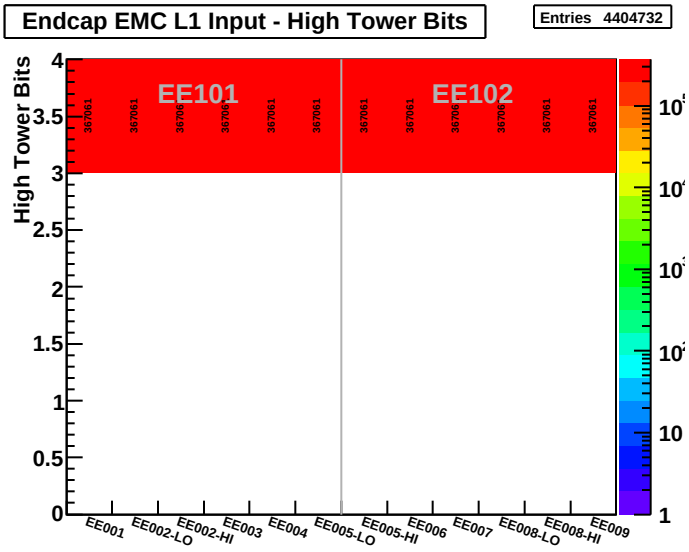

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

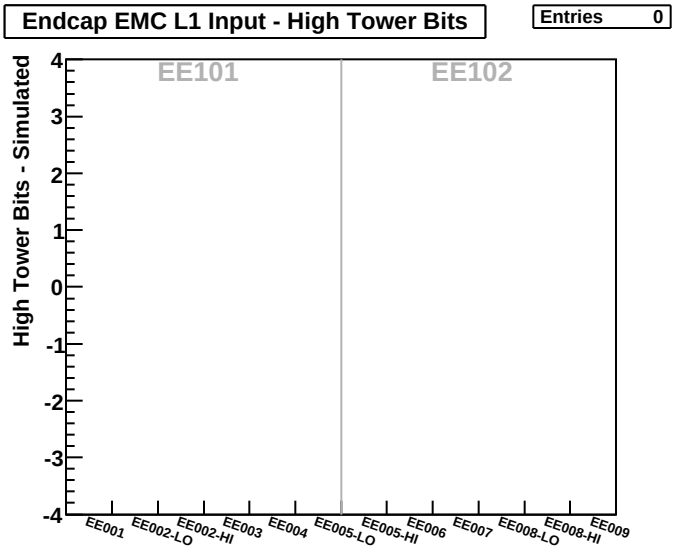

Endcap EMC L1 Input - Low Eta Sum
Entries 4404732
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

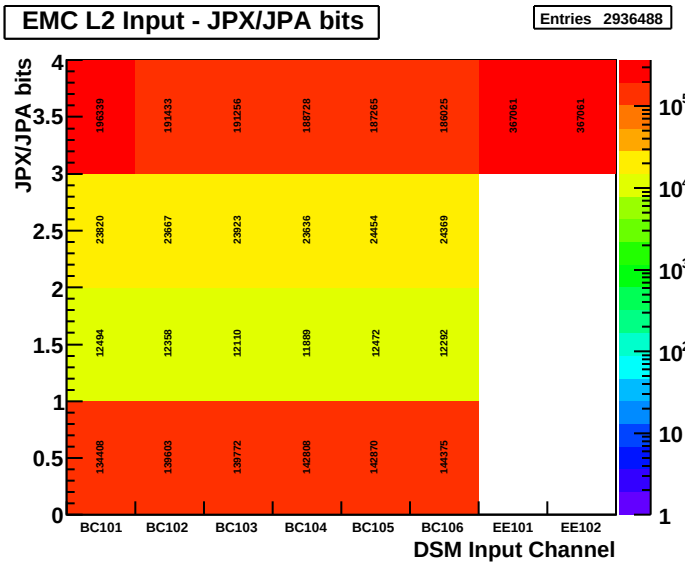

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

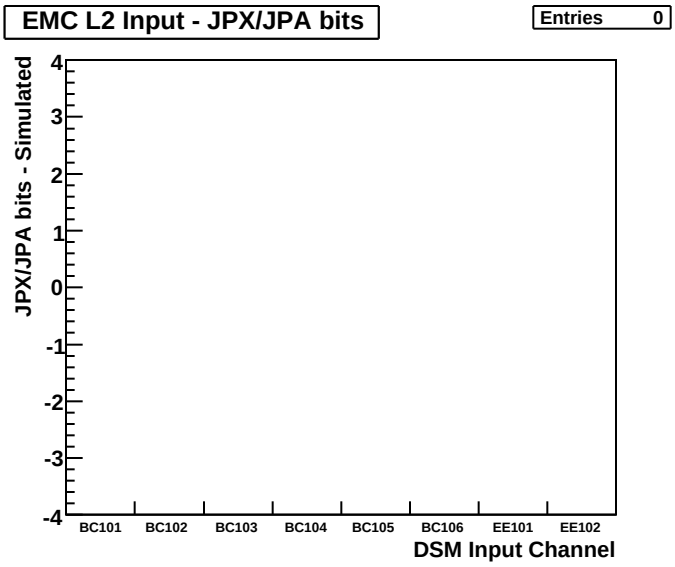

Endcap EMC L1 Input - High Eta Sum
Entries 4404732
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

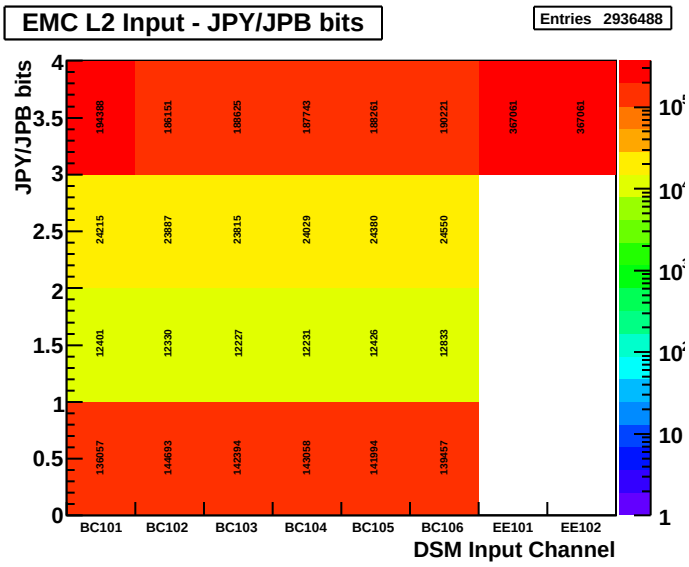

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

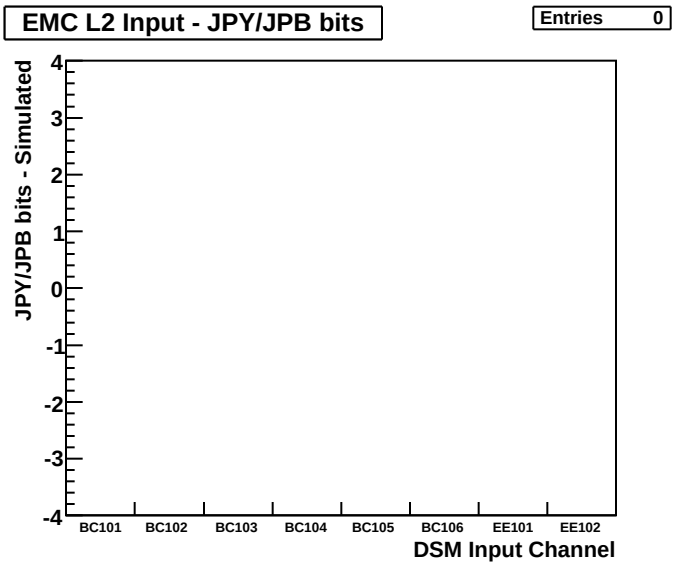

Endcap EMC L1 Input - High Tower Bits
Entries 4404732
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

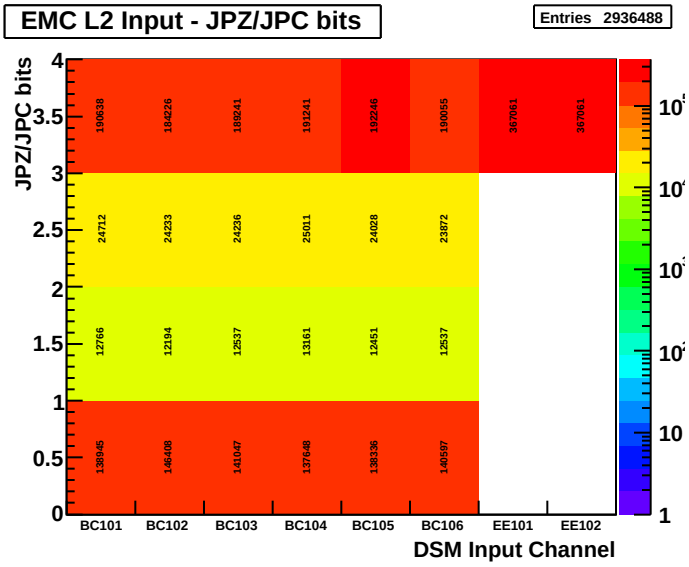

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

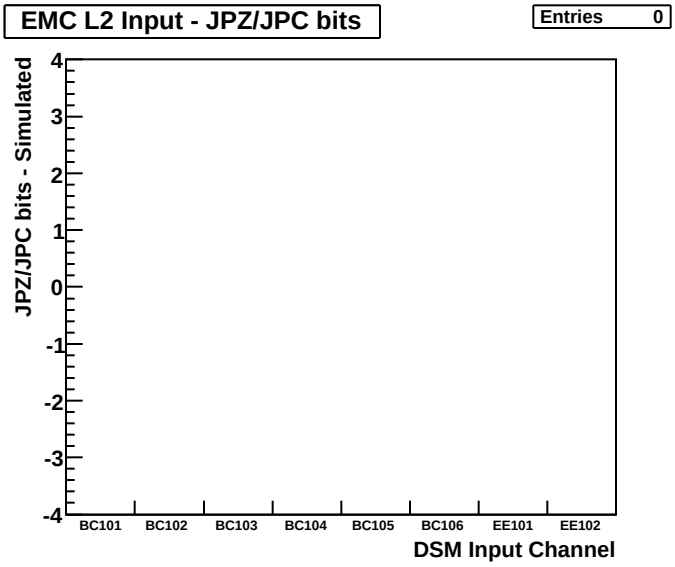

EMC L2 Input - JPX/JPA bits
Entries 2936488
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
196339 191433 191256 188728 187265 186025 367061 367061
23820 23667 23923 23636 24454 24369
12494 12358 12110 11889 12472 12292
134408 139603 137772 142808 142870 144375

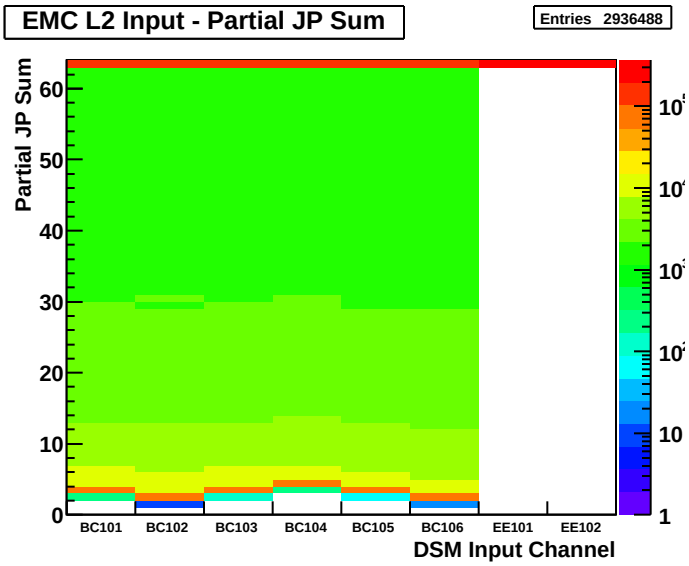

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

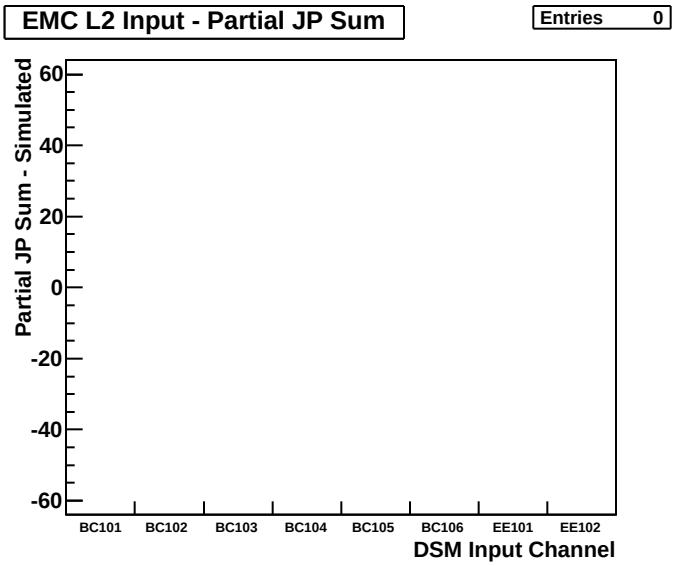

EMC L2 Input - JPY/JPB bits
Entries 2936488
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
194388 186151 188625 187743 188261 190221 367061 367061
24215 23887 23815 24029 24380 24650
12401 12330 12227 12231 12426 12833
136057 144693 142394 143058 141994 139457

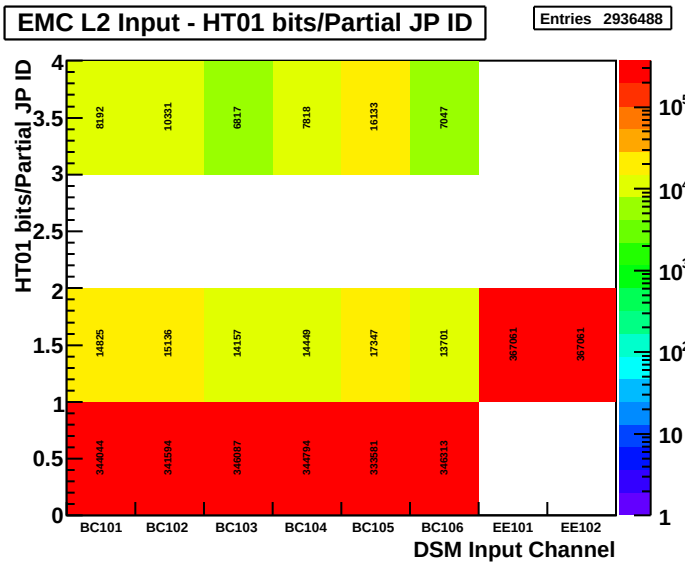

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

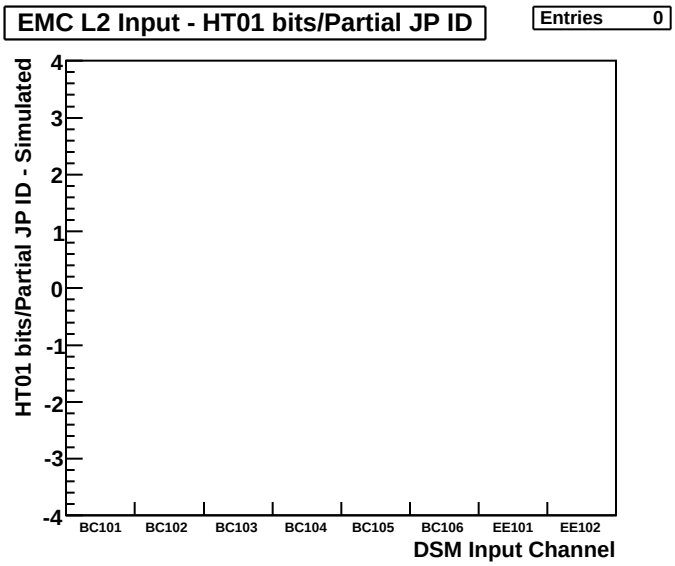

EMC L2 Input - JPZ/JPC bits
Entries 2936488
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
190638 184226 188241 191241 192246 190055 367061 367061
24712 24233 24236 25011 24028 23872
12766 12194 12537 13161 12451 12537
138945 146408 141047 137648 138336 140597

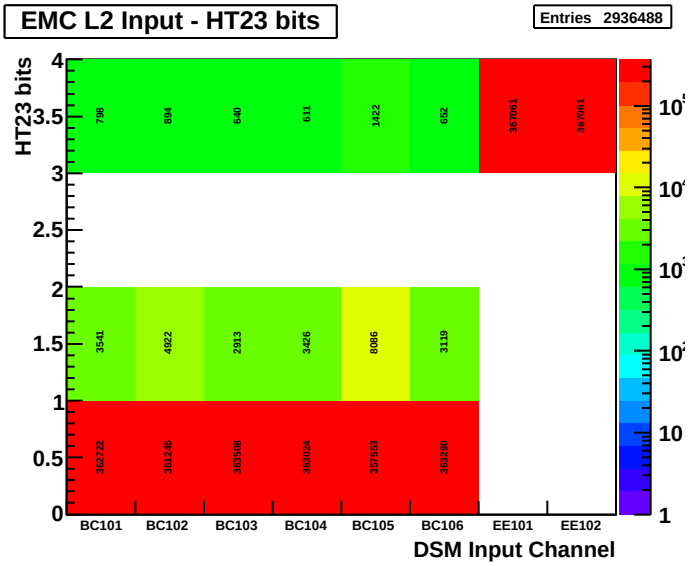

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

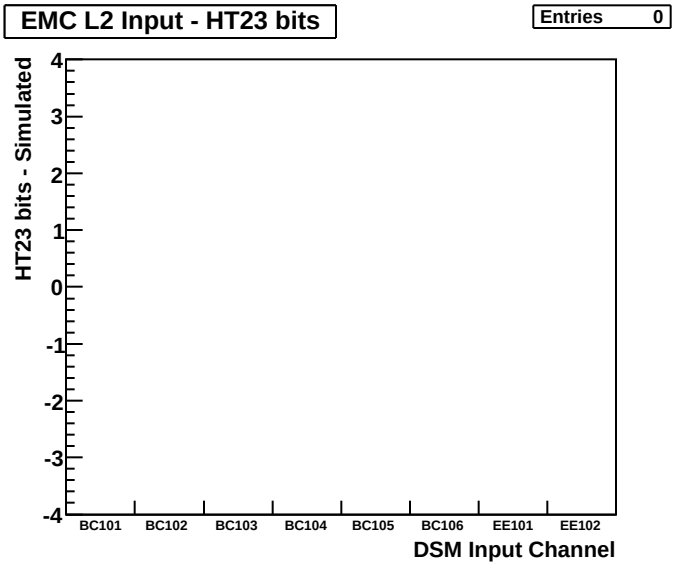

EMC L2 Input - Partial JP Sum
Entries 2936488
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

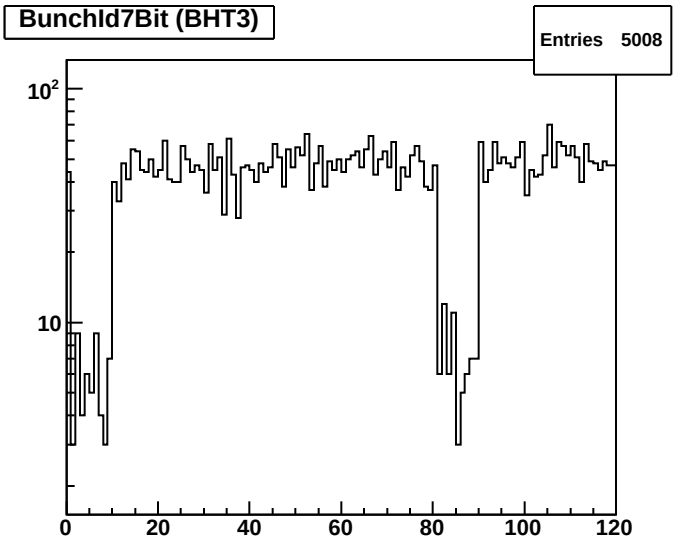

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

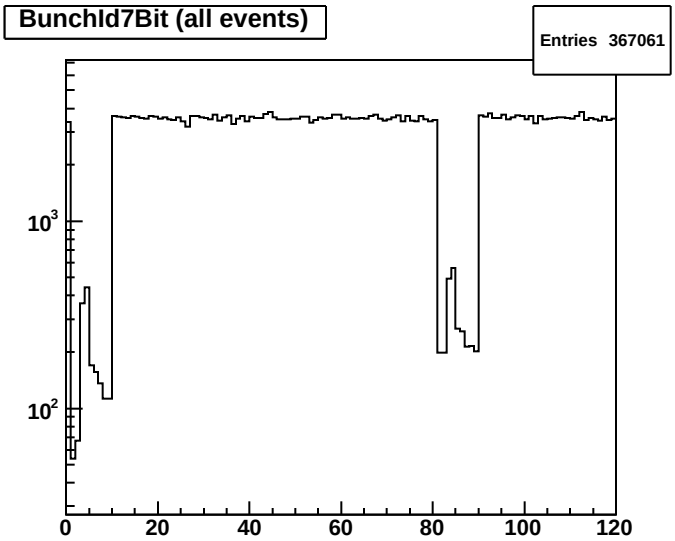

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2936488
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

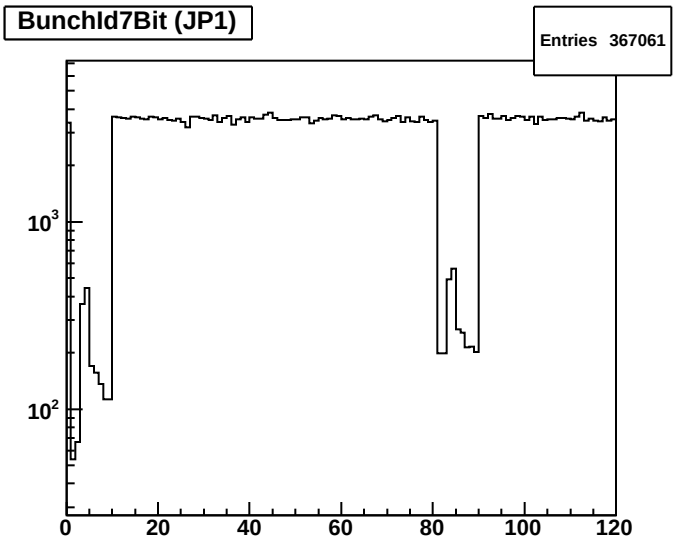

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

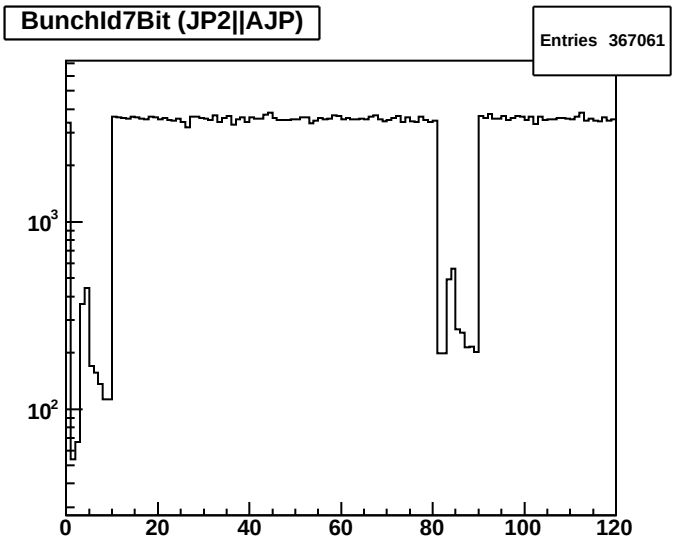

EMC L2 Input - HT23 bits
Entries 2936488
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

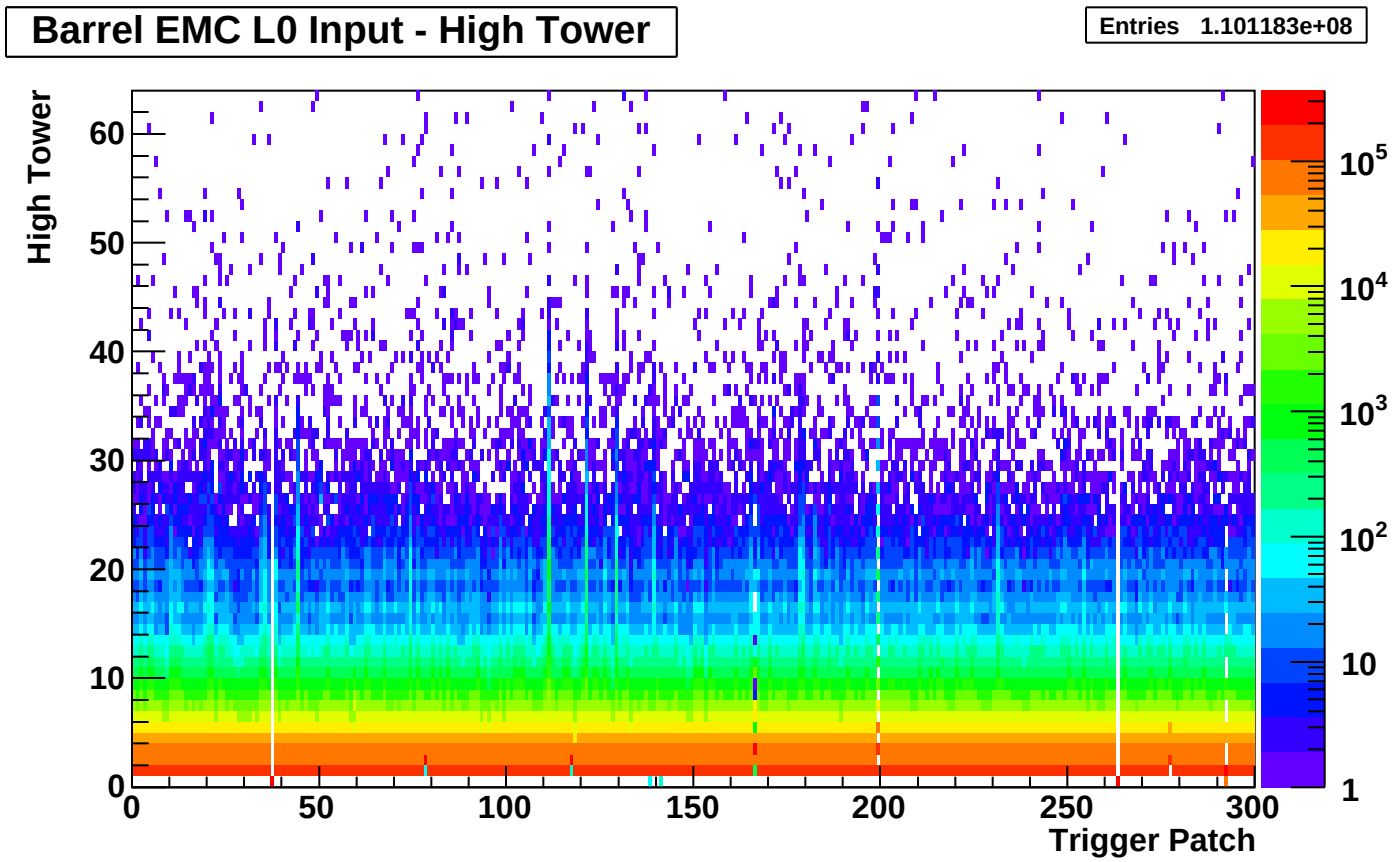

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

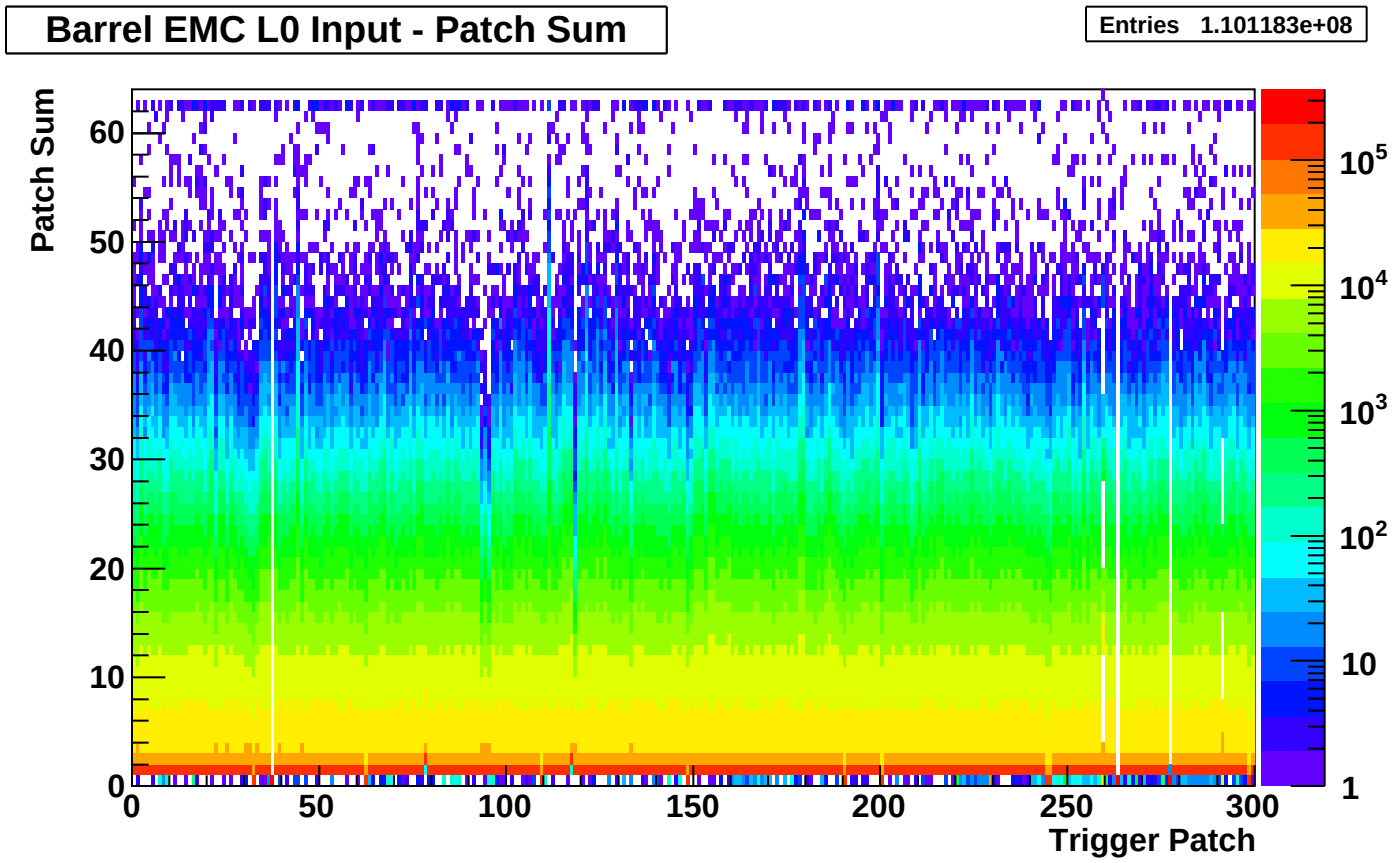

BunchId7Bit (BHT3)
Entries 5008
10^2
10
0
20
40
60
80
100
120

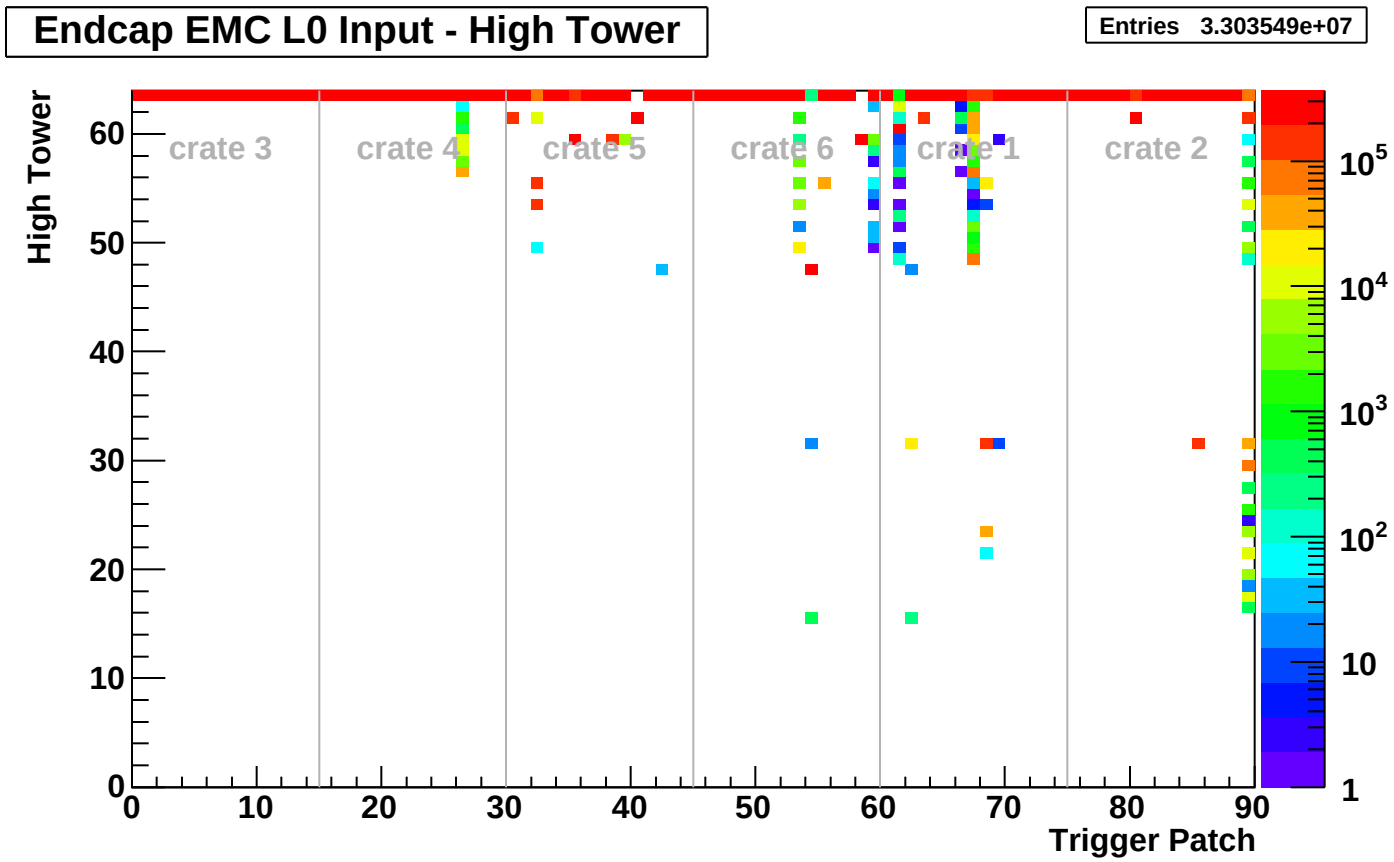

BunchId7Bit (all events)
Entries 367061
10^3
10^2
0
20
40
60
80
100
120

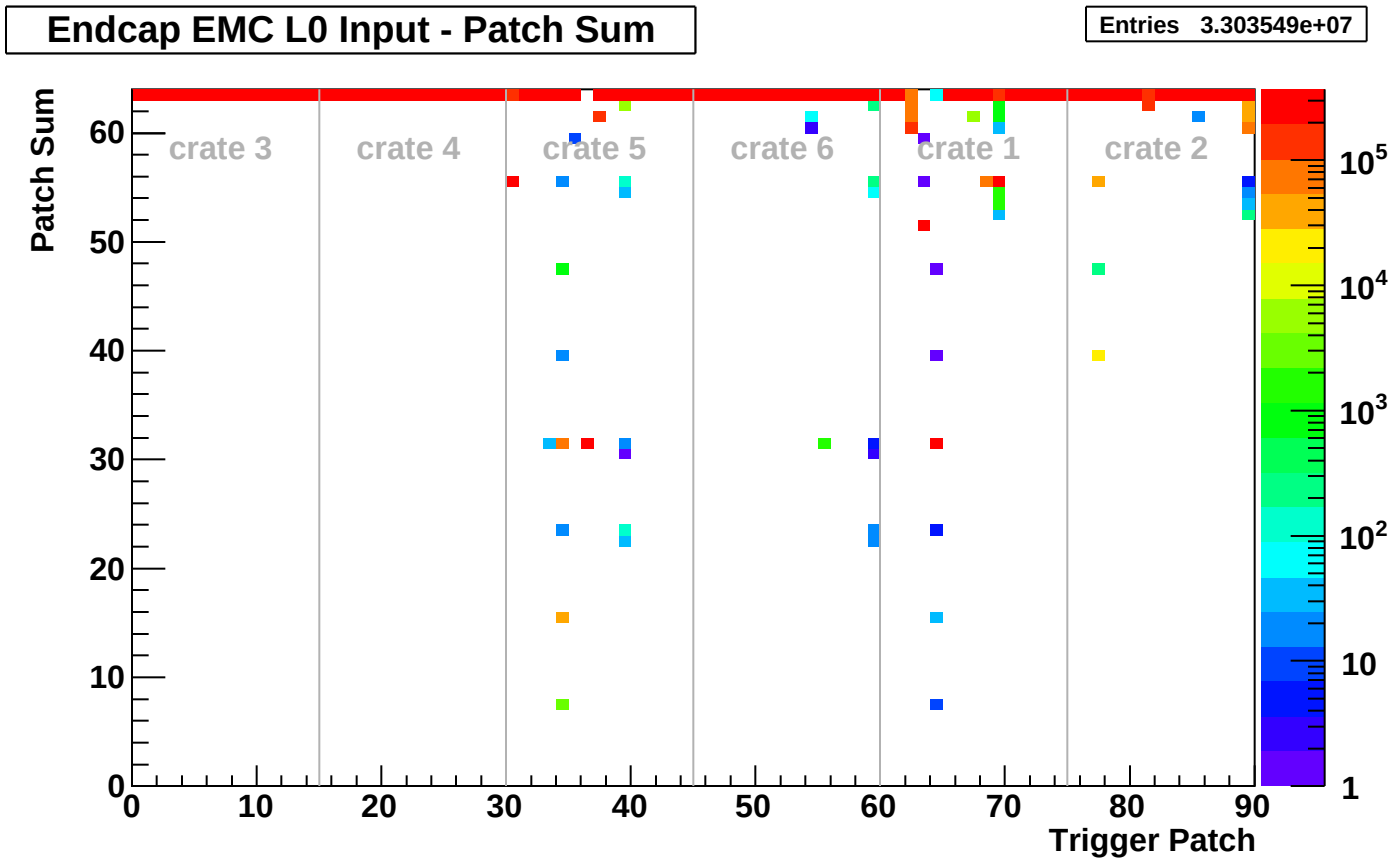

BunchId7Bit (JP1)
Entries 367061
10^3
10^2
0
20
40
60
80
100
120

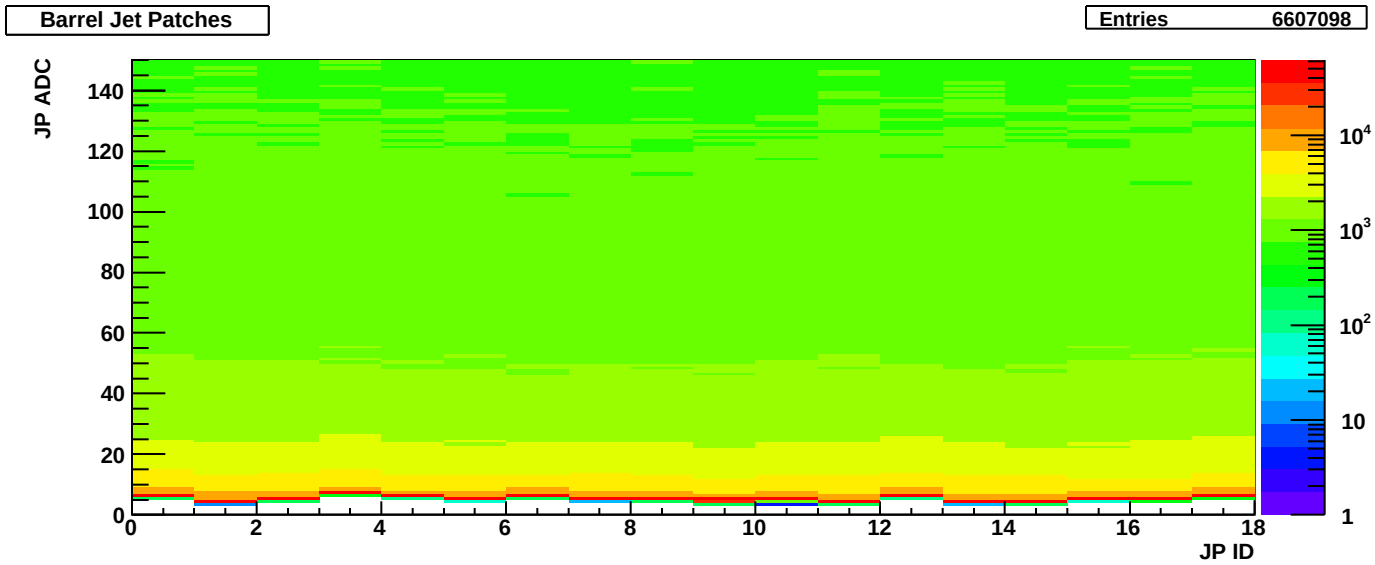

BunchId7Bit (JP2||AJP)
Entries 367061
10^3
10^2
0
20
40
60
80
100
120

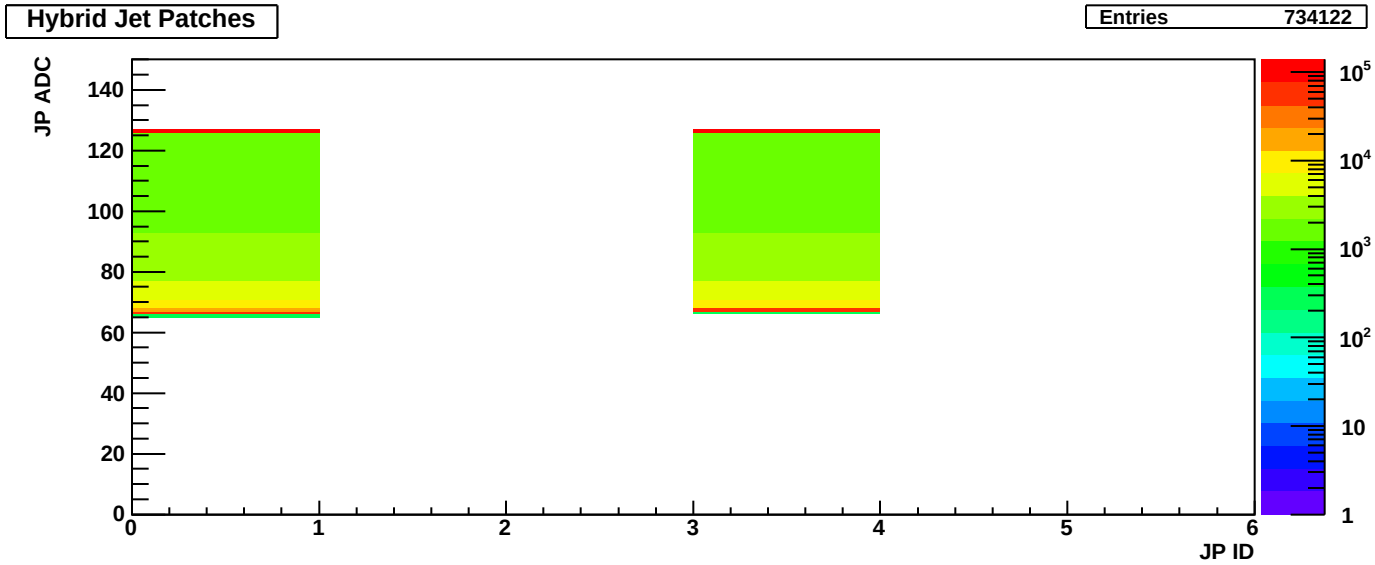

Barrel EMC L0 Input - High Tower
Entries 1.101183e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

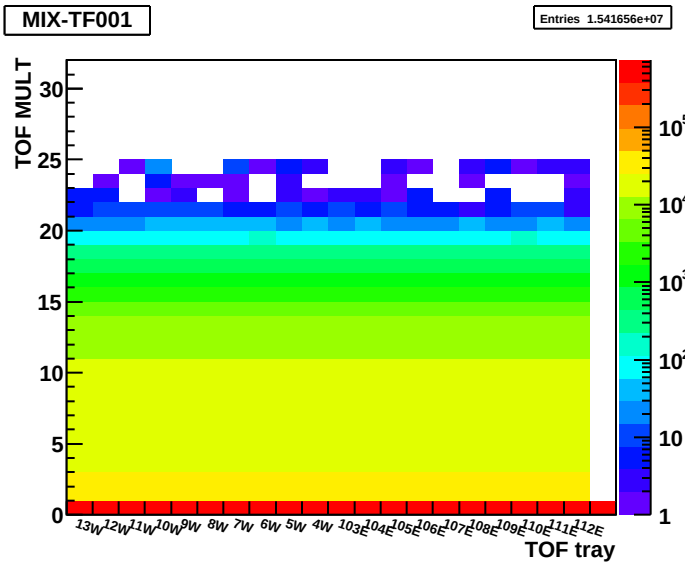

Barrel EMC L0 Input - Patch Sum
Entries 1.101183e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

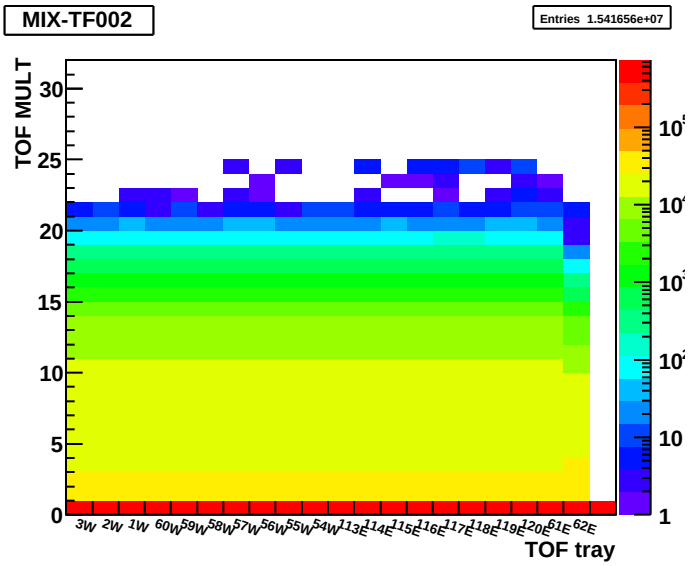

Endcap EMC L0 Input - High Tower
Entries 3.303549e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

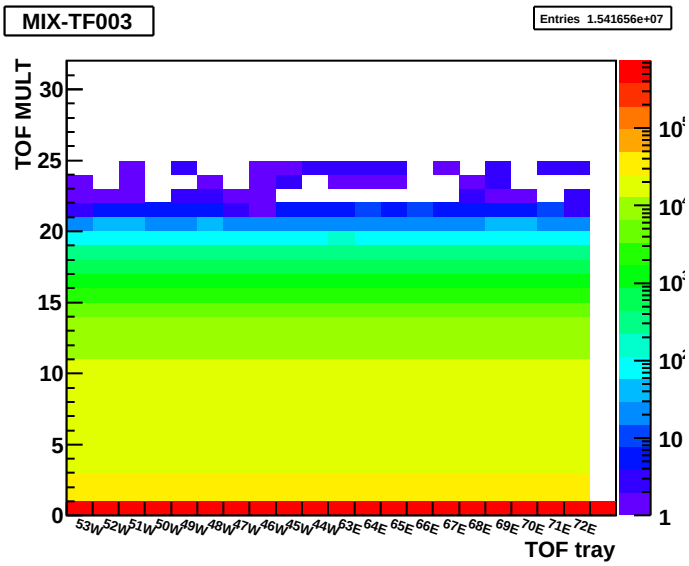

Endcap EMC L0 Input - Patch Sum
Entries 3.303549e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

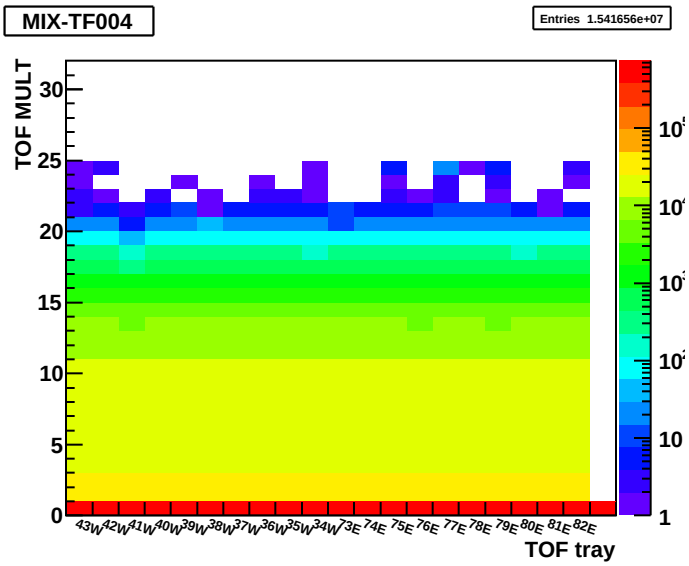

Barrel Jet Patches
Entries 6607098
JP ADC
JP ID

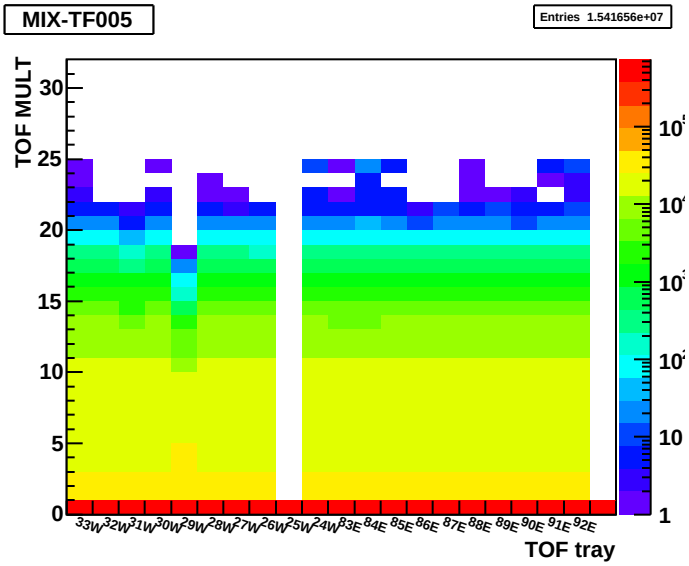

Hybrid Jet Patches
Entries 734122
JP ADC
JP ID

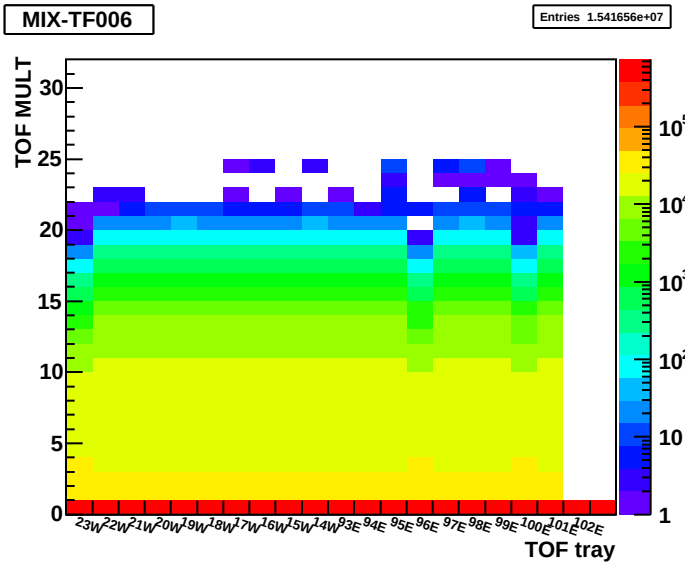

MIX-TF001
Entries 1.541656e+07
TOF MULT
TOF tray

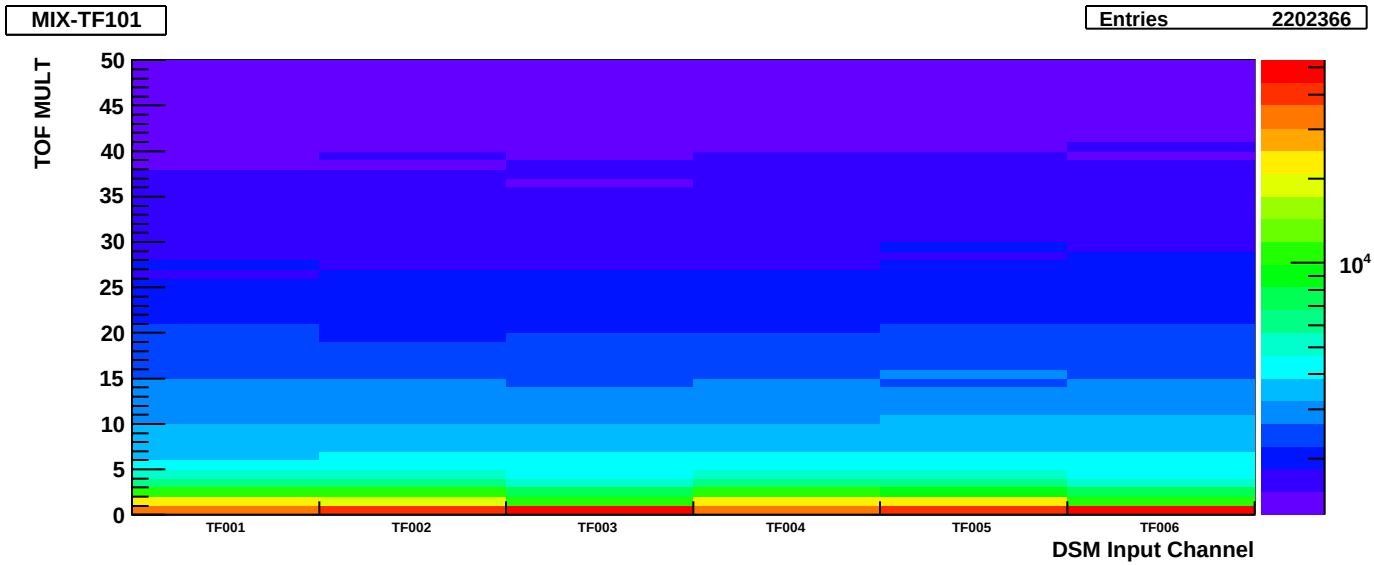

MIX-TF002
Entries 1.541656e+07
TOF MULT
TOF tray

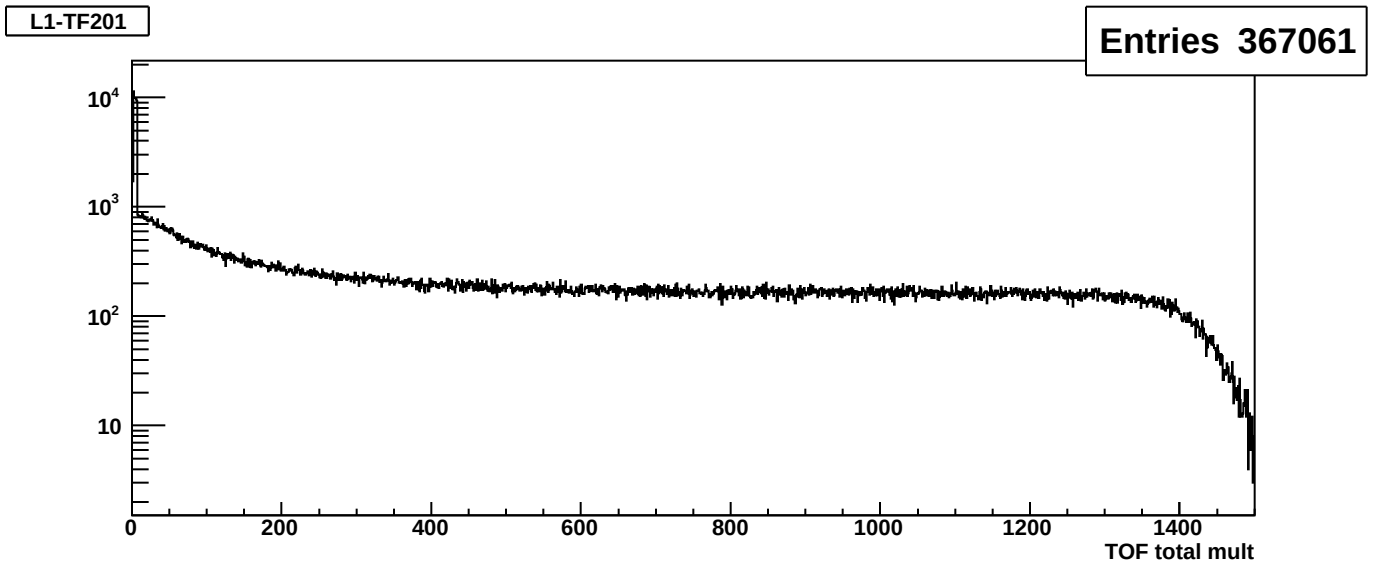

MIX-TF003
Entries 1.541656e+07
TOF MULT
TOF tray

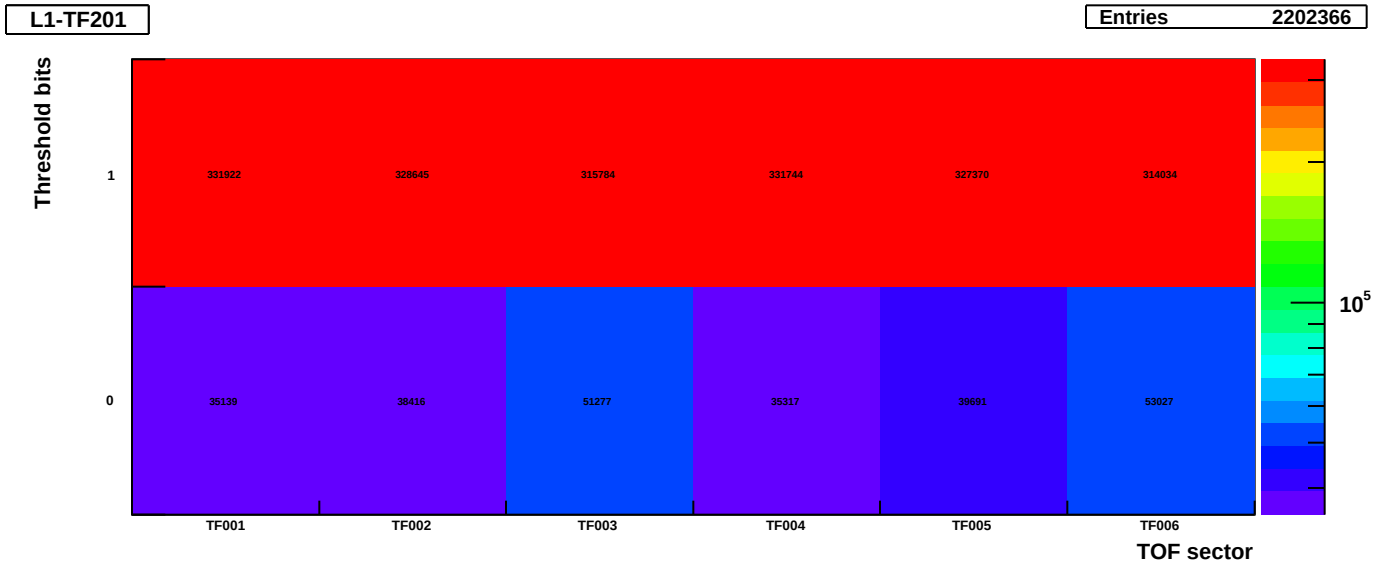

MIX-TF004
Entries 1.541656e+07
TOF MULT
TOF tray

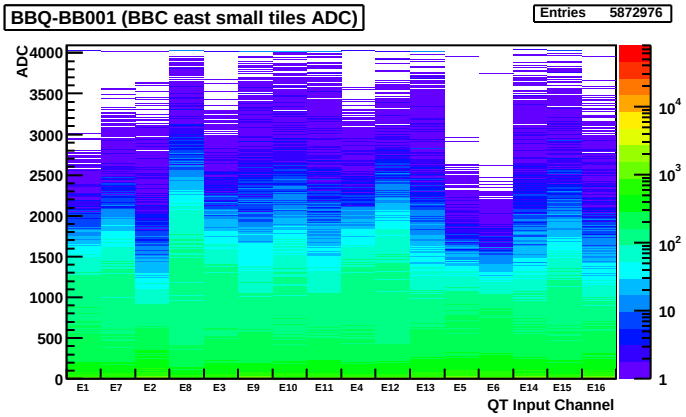

MIX-TF005
Entries 1.541656e+07
TOF MULT
TOF tray

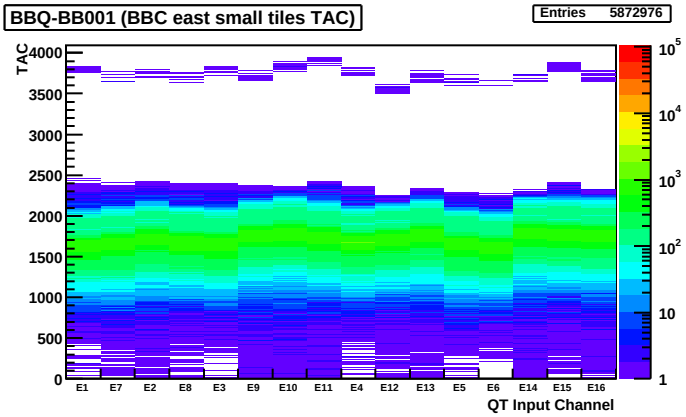

MIX-TF006
Entries 1.541656e+07
TOF MULT
TOF tray

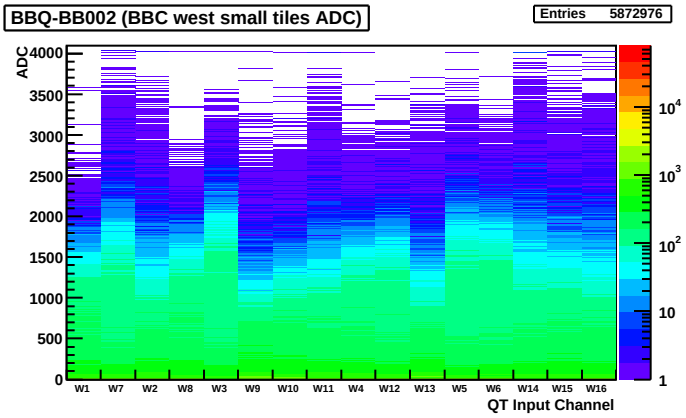

MIX-TF101
Entries 2202366
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

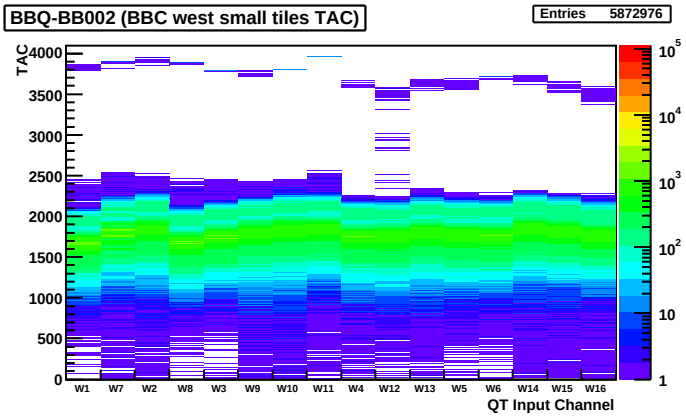

L1-TF201
Entries 367061
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

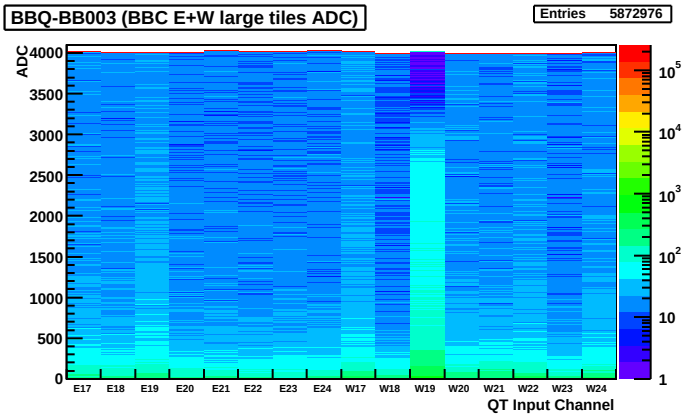

L1-TF201
Entries 2202366
Threshold bits
1
0
331922
328645
315784
331744
327370
314034
35139
38416
51277
35317
39691
53027
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

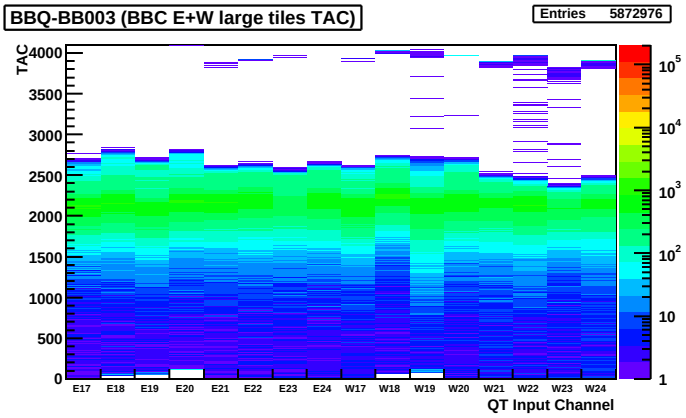

BBQ-BB001 (BBC east small tiles ADC)
Entries 5872976
ADC
QT Input Channel

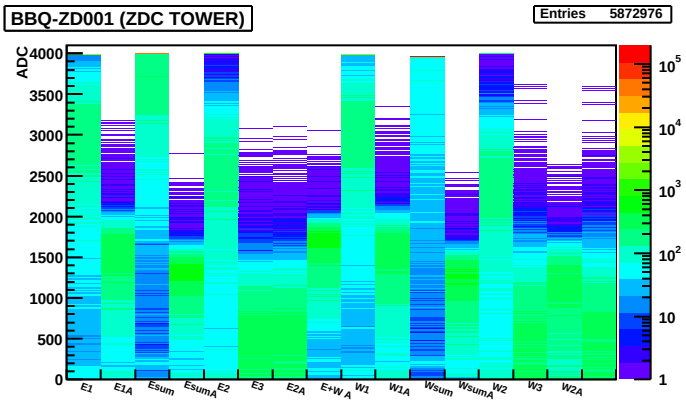

BBQ-BB001 (BBC east small tiles TAC)
Entries 5872976
TAC
QT Input Channel

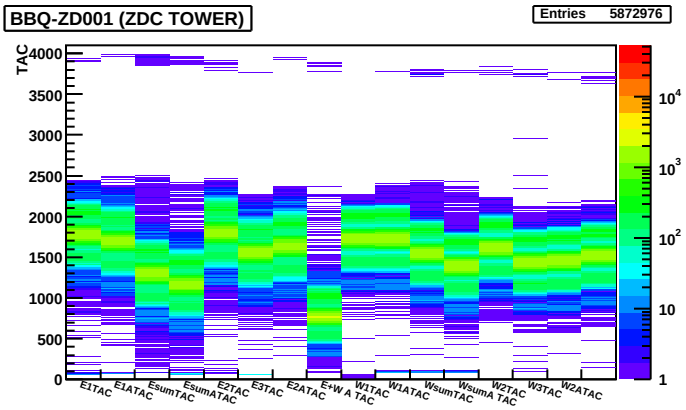

BBQ-BB002 (BBC west small tiles ADC)
Entries 5872976
ADC
QT Input Channel

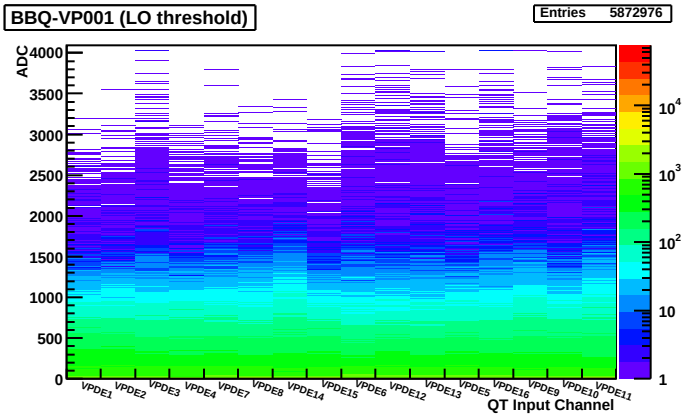

BBQ-BB002 (BBC west small tiles TAC)
Entries 5872976
TAC
QT Input Channel

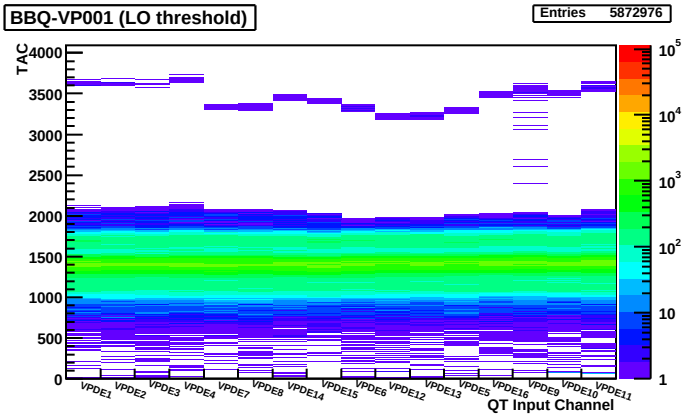

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 5872976
ADC
QT Input Channel

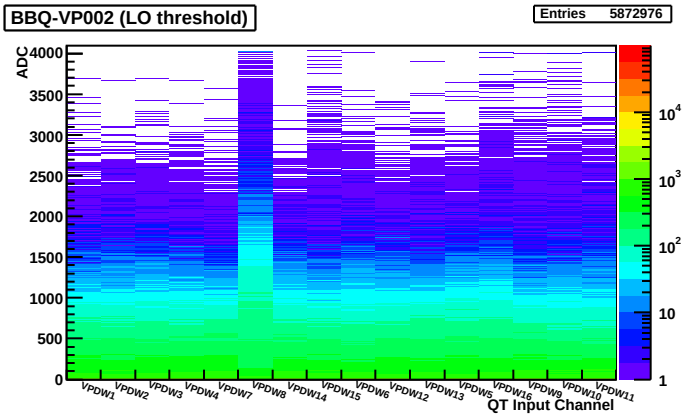

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 5872976
TAC
QT Input Channel

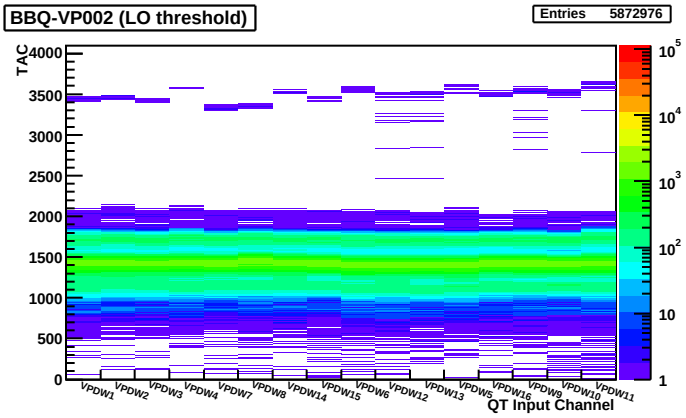

BBQ-ZD001 (ZDC TOWER)
Entries 5872976
ADC

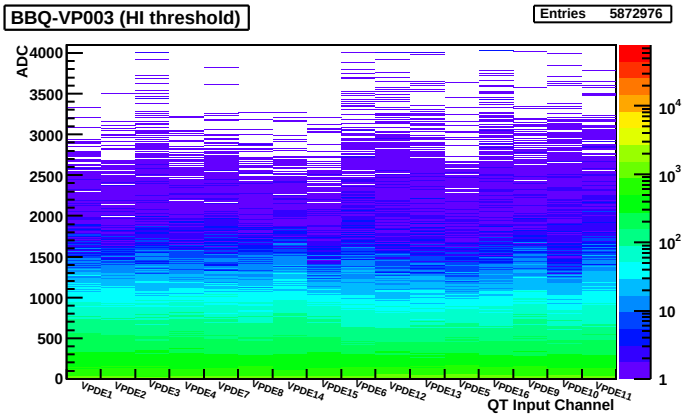

BBQ-ZD001 (ZDC TOWER)
Entries 5872976
TAC

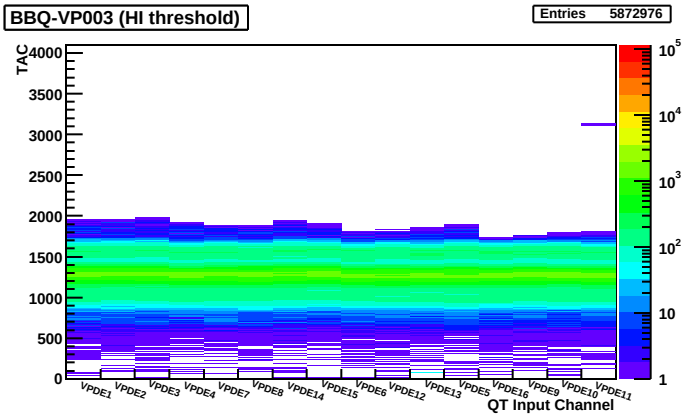

BBQ-VP001 (LO threshold)
Entries 5872976
ADC
QT Input Channel

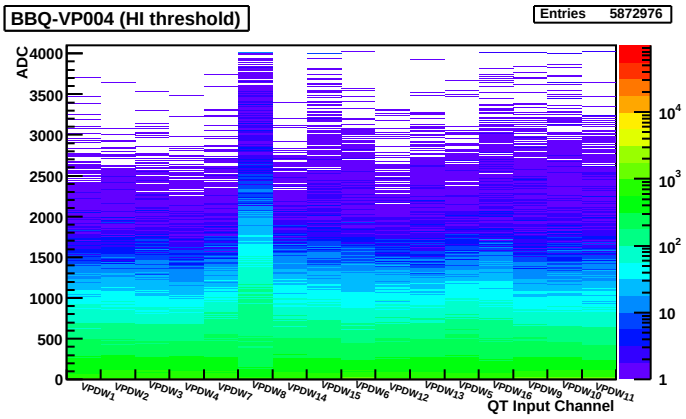

BBQ-VP001 (LO threshold)
Entries 5872976
TAC
QT Input Channel

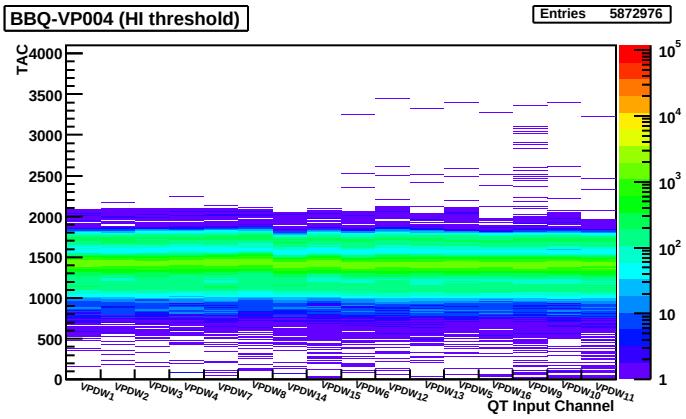

BBQ-VP002 (LO threshold)
Entries 5872976
ADC
QT Input Channel

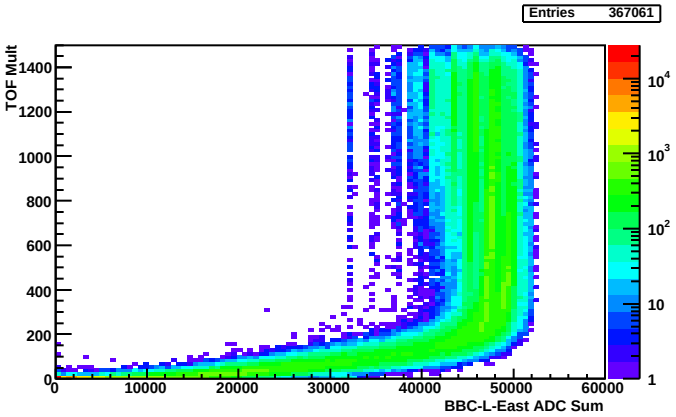

BBQ-VP002 (LO threshold)
Entries 5872976
TAC
QT Input Channel

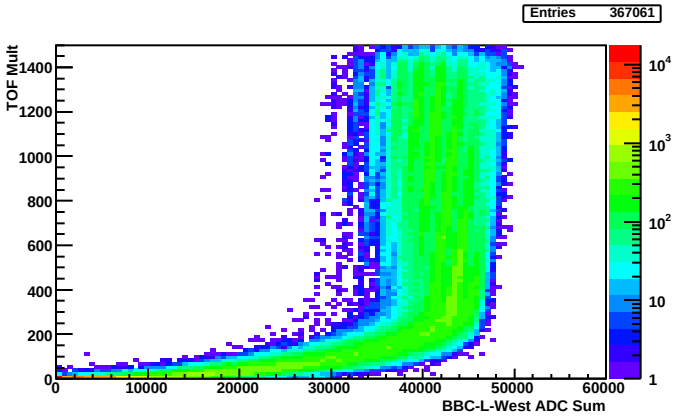

BBQ-VP003 (HI threshold)
Entries 5872976
ADC
QT Input Channel

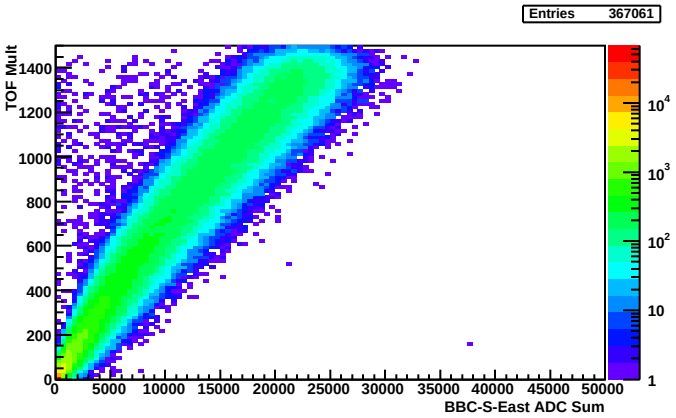

BBQ-VP003 (HI threshold)
Entries 5872976
TAC
QT Input Channel

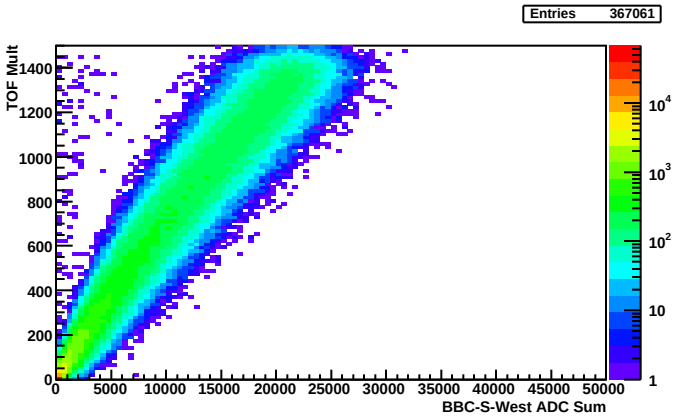

BBQ-VP004 (HI threshold)
Entries 5872976
ADC
QT Input Channel

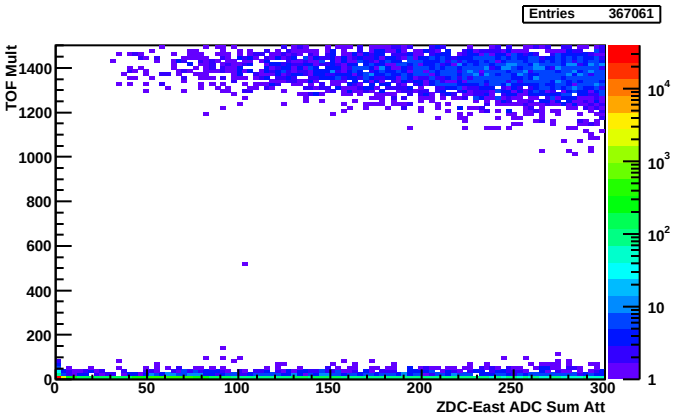

BBQ-VP004 (HI threshold)
Entries 5872976
TAC
QT Input Channel

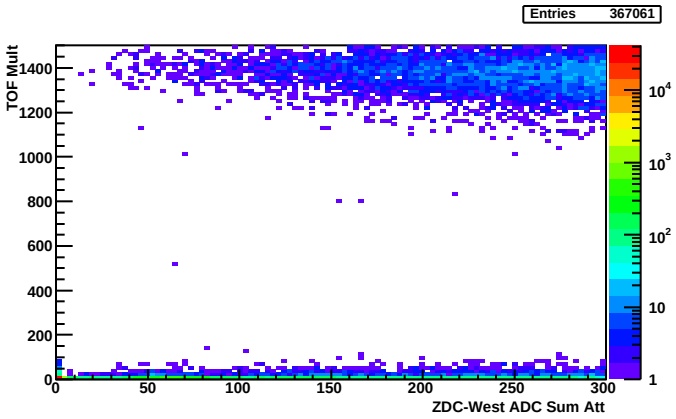

Entries 367061
TOF Mult
BBC-L-East ADC Sum

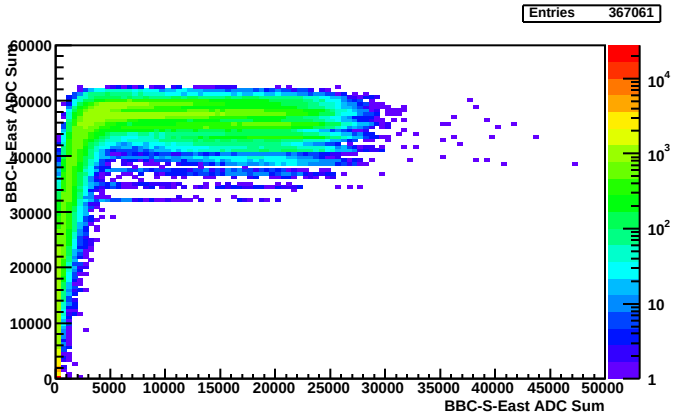

Entries 367061
TOF Mult
BBC-L-West ADC Sum

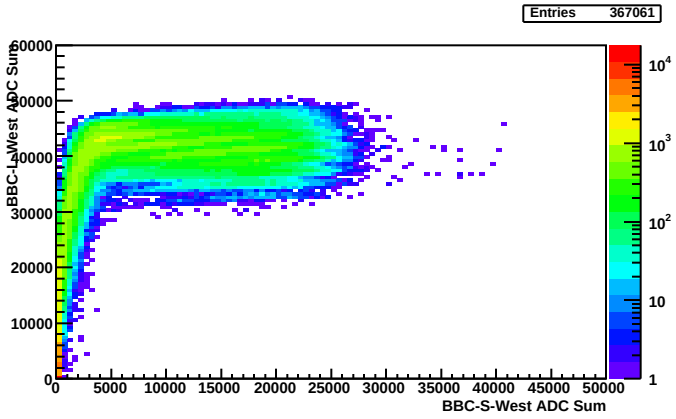

Entries 367061
TOF Mult
BBC-S-East ADC Sum

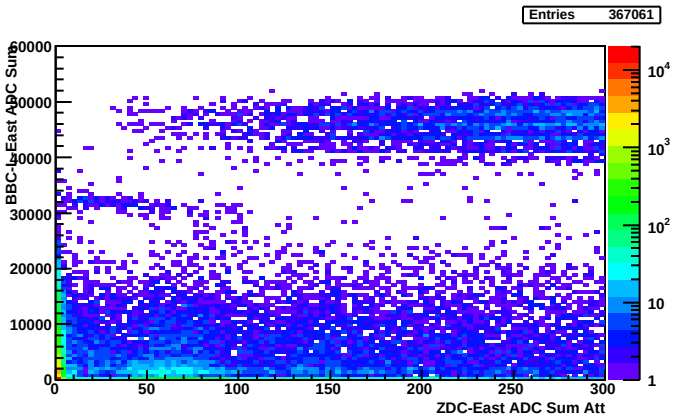

Entries 367061
TOF Mult
BBC-S-West ADC Sum


Entries 367061
TOF Mult
ZDC-East ADC Sum Att


Entries 367061
TOF Mult
ZDC-West ADC Sum Att


Entries 367061
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 367061
BBC-L-West ADC Sum
BBC-S-West ADC Sum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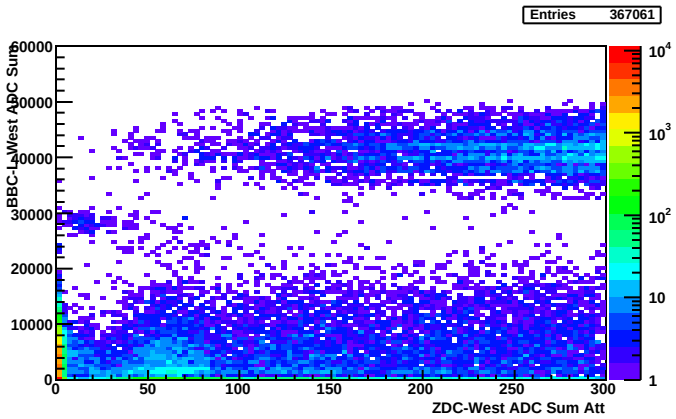
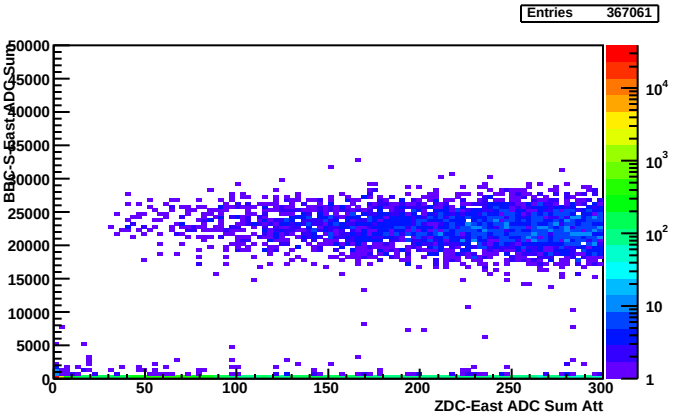
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 367061
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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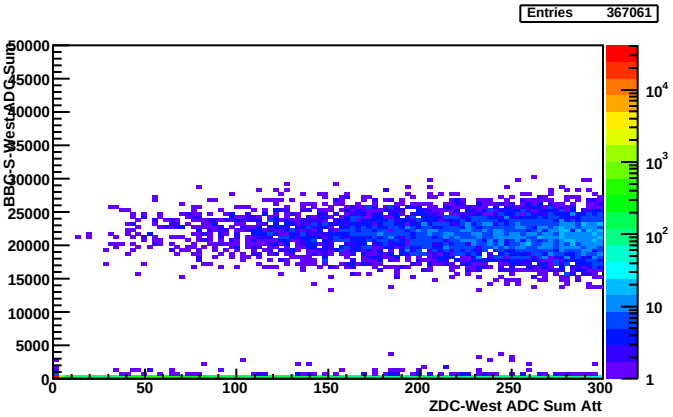
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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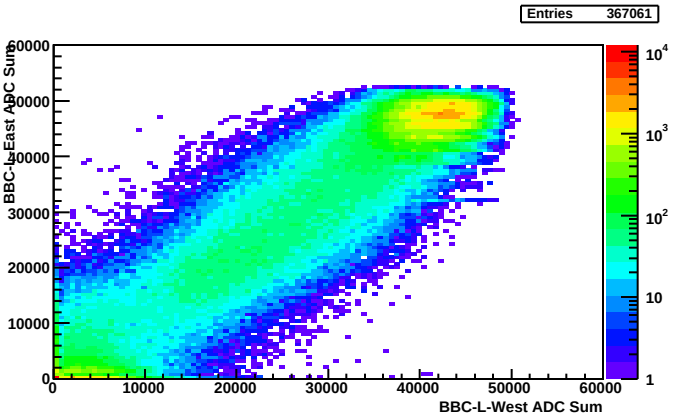
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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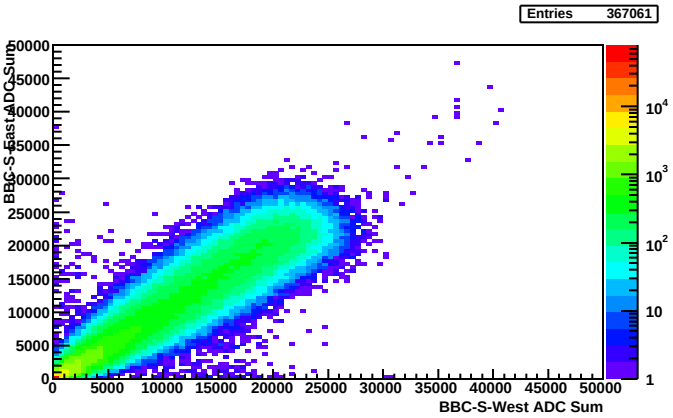
BBC-L-East ADC Sum
BBC-L-West ADC Sum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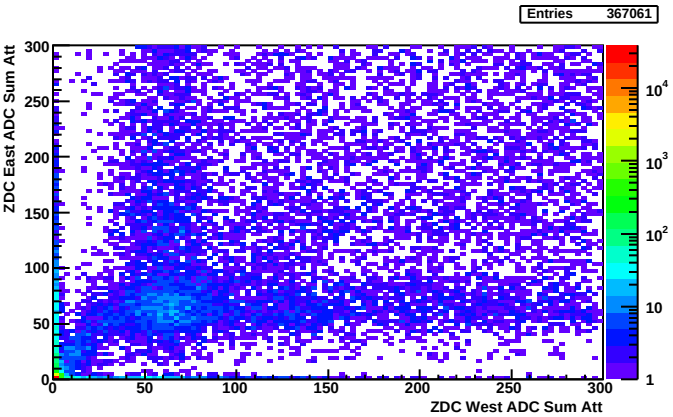
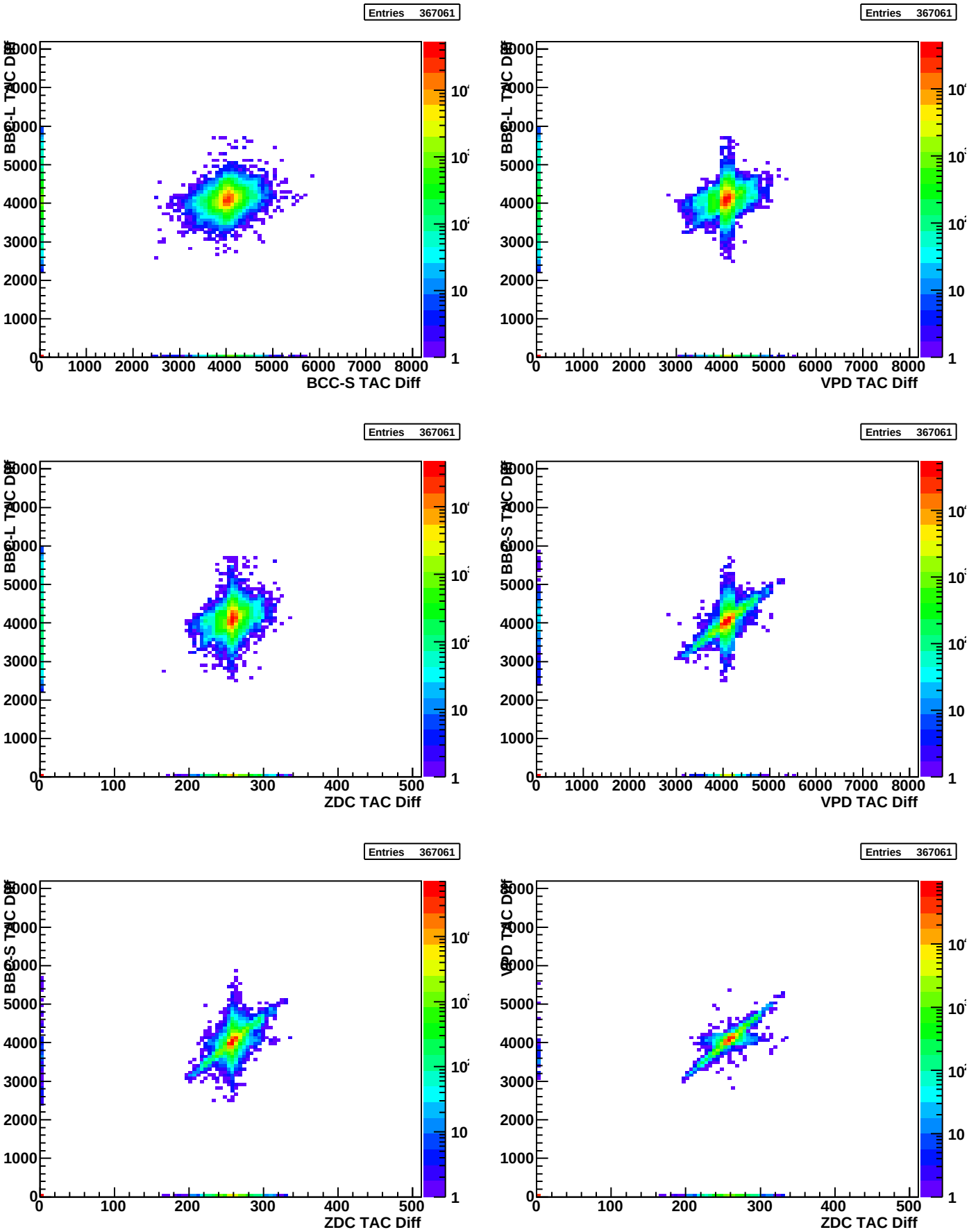
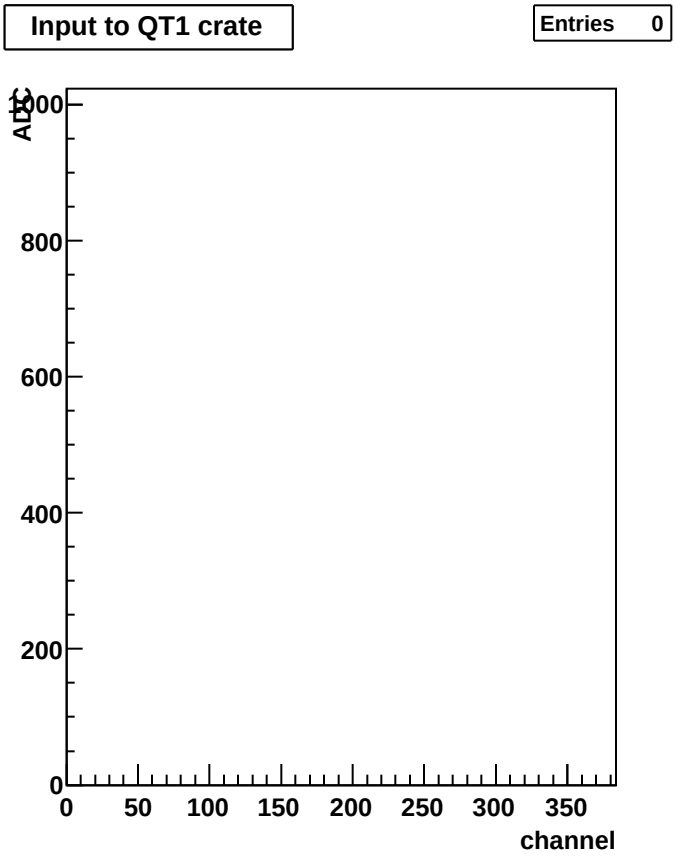
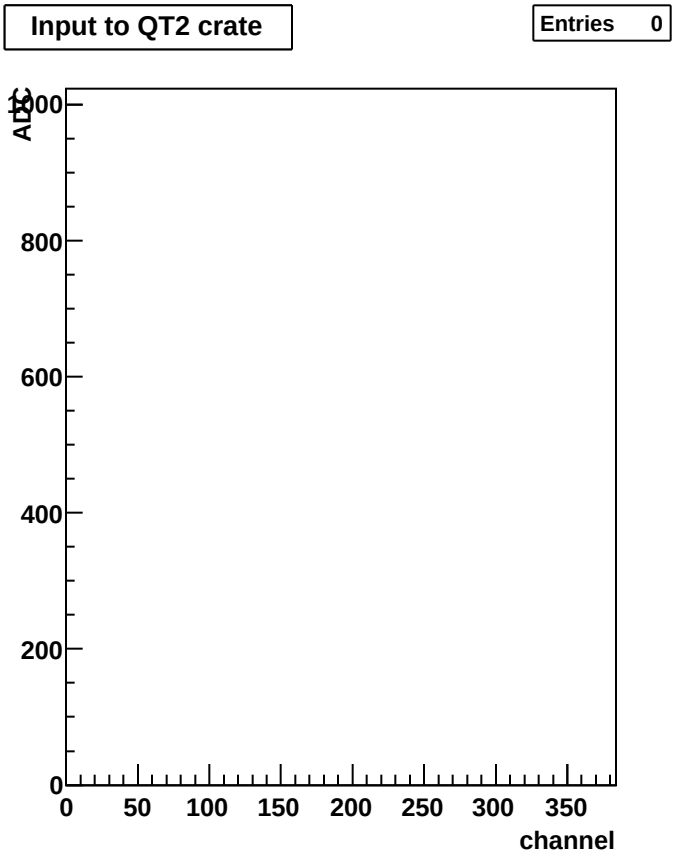
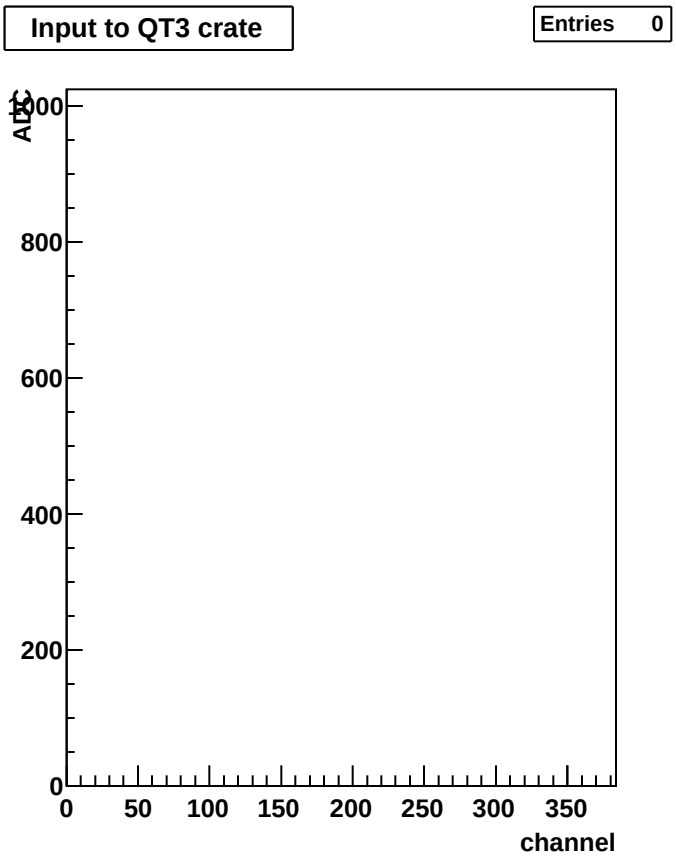
BBC-S-East ADC Sum
BBC-S-West ADC Sum

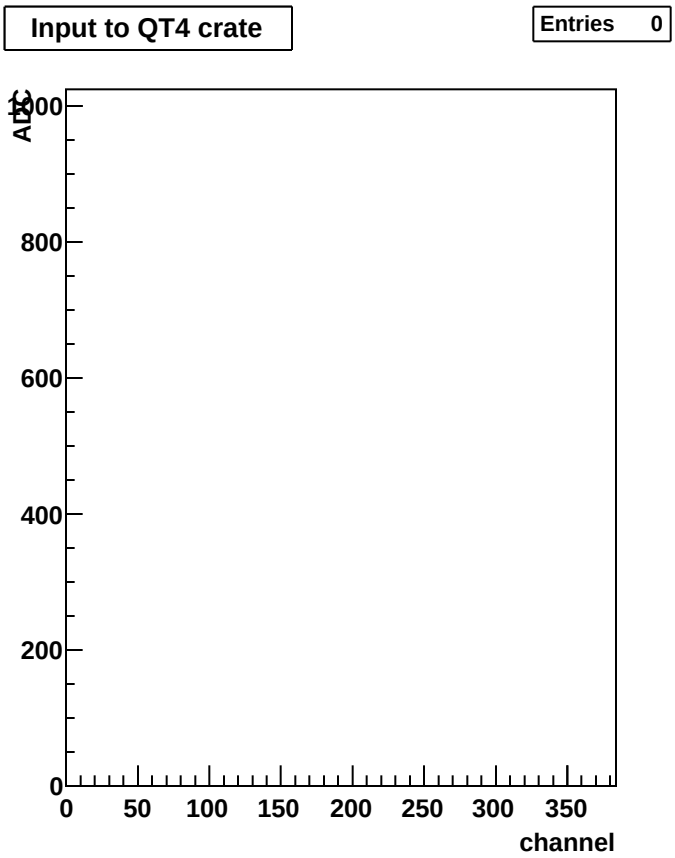

Entries 367061
ZDC East ADC Sum Att
ZDC West ADC Sum Att

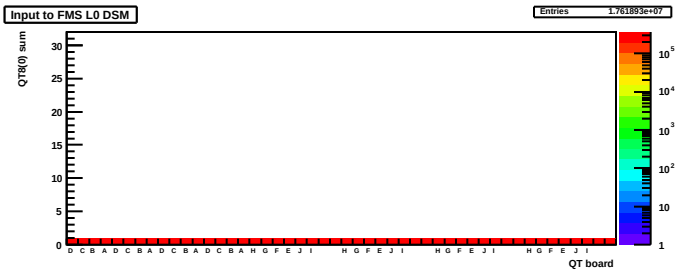

Entries 367061
BBC-L TAC Diff
BCC-S TAC Diff
Entries 367061
BBC-L TAC Diff
VPD TAC Diff
Entries 367061
BBC-L TAC Diff
ZDC TAC Diff
Entries 367061
BBC-S TAC Diff
VPD TAC Diff
Entries 367061
BBC-S TAC Diff
ZDC TAC Diff
Entries 367061
VPD TAC Diff
ZDC TAC Diff

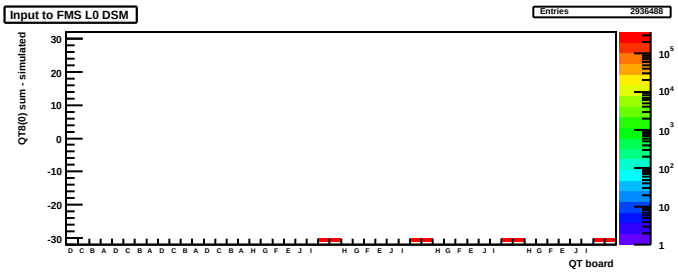

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

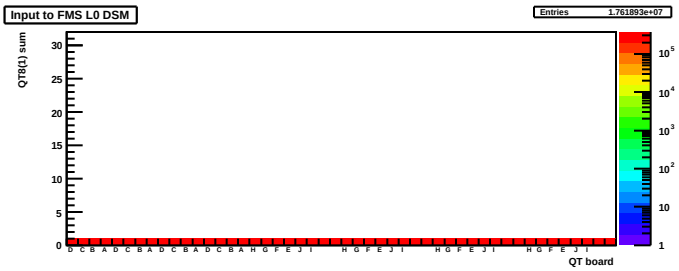

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

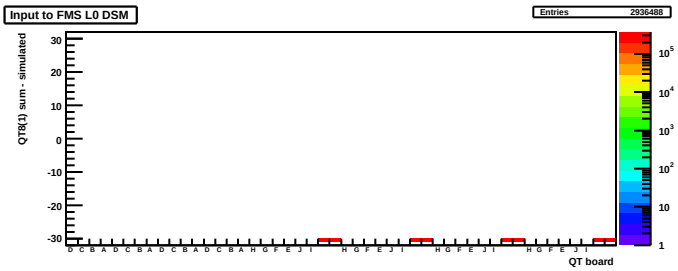

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

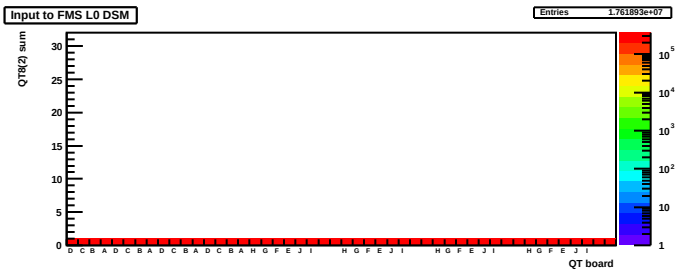

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

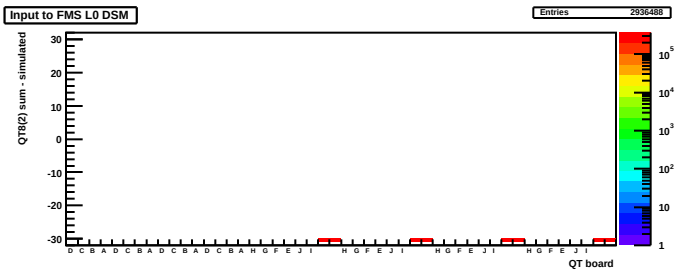

Input to FMS L0 DSM
Entries 1.761893e+07
QT8(0) sum
QT board

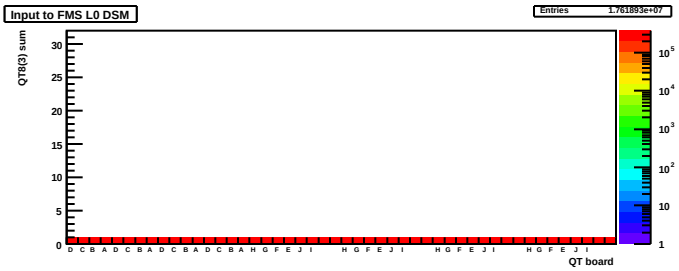

Input to FMS L0 DSM
Entries 2936488
QT8(0) sum - simulated
QT board

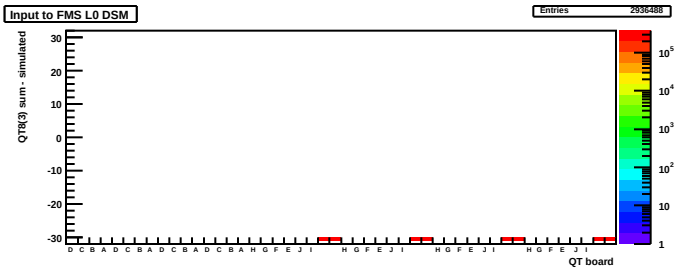

Input to FMS L0 DSM
Entries 1.761893e+07
QT8(1) sum
QT board

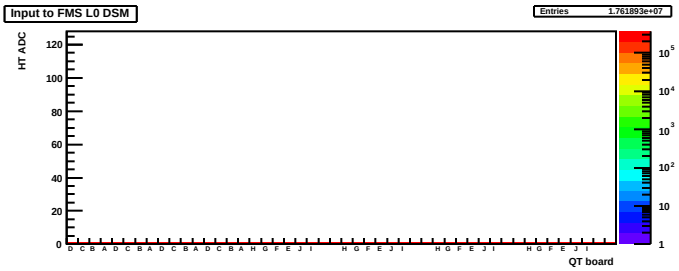

Input to FMS L0 DSM
Entries 2936488
QT8(1) sum - simulated
QT board

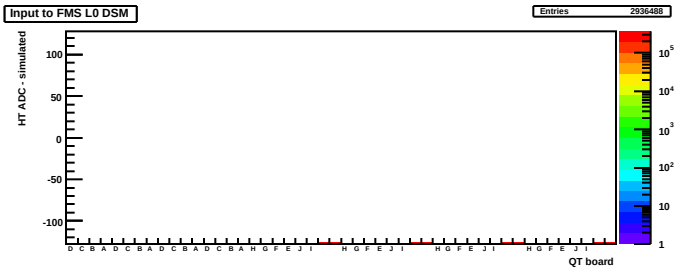

Input to FMS L0 DSM
Entries 1.761893e+07
QT8(2) sum
QT board

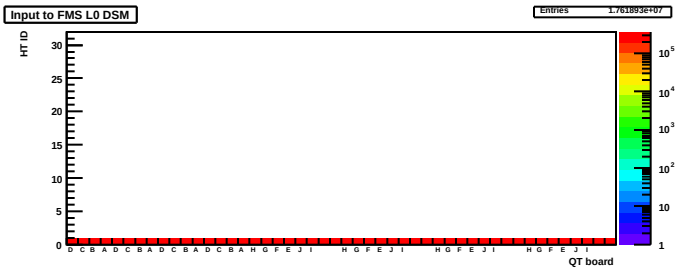

Input to FMS L0 DSM
Entries 2936488
QT8(2) sum - simulated
QT board

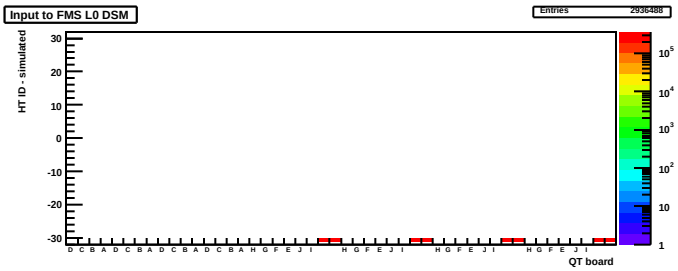

Input to FMS L0 DSM
Entries 1.761893e+07
QT8(3) sum
QT board

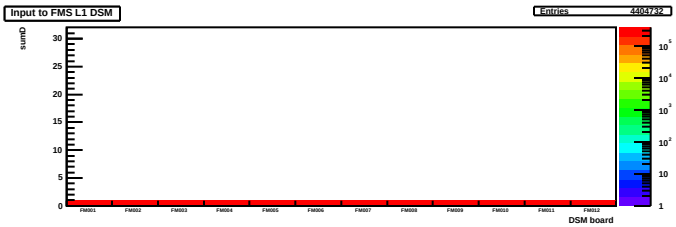

Input to FMS L0 DSM
Entries 2936488
QT8(3) sum - simulated
QT board

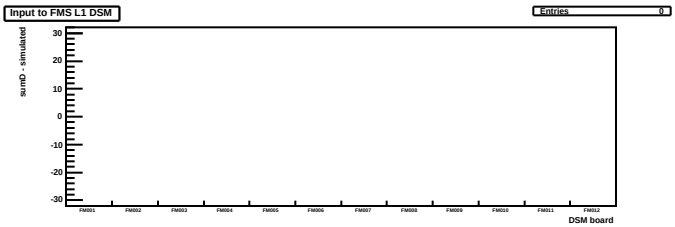

Input to FMS L0 DSM
Entries 1.761893e+07
HT ADC
QT board

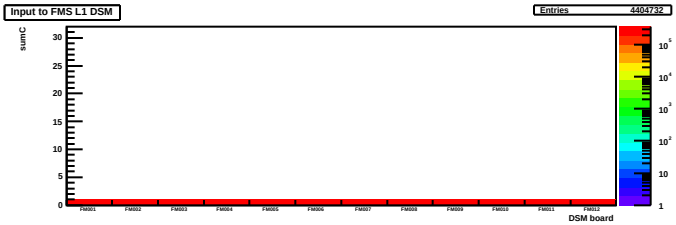

Input to FMS L0 DSM
Entries 2936488
HT ADC - simulated
QT board

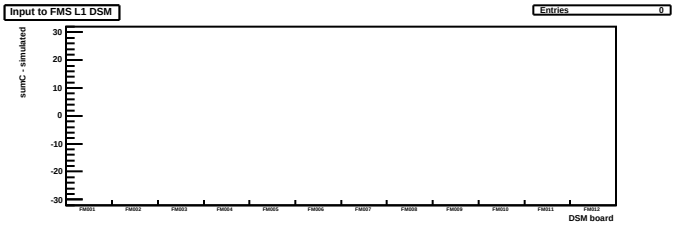

Input to FMS L0 DSM
Entries 1.761893e+07
HT ID
QT board

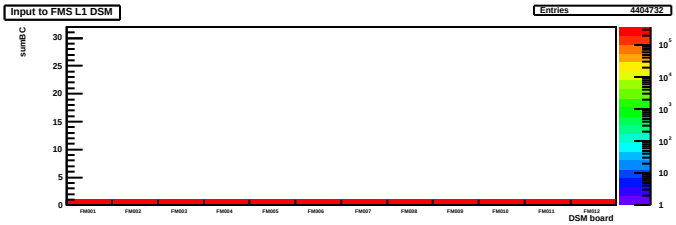

Input to FMS L0 DSM
Entries 2936488
HT ID - simulated
QT board

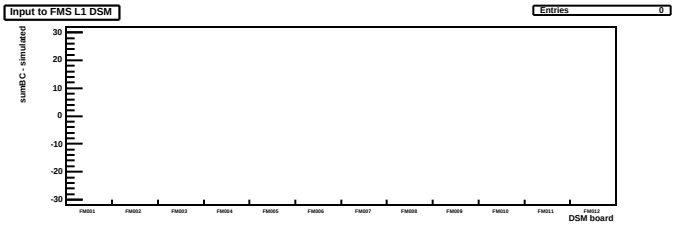

Input to FMS L1 DSM
Entries 4404732
sumD
DSM board

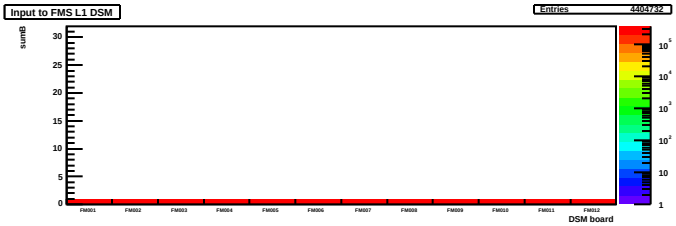

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

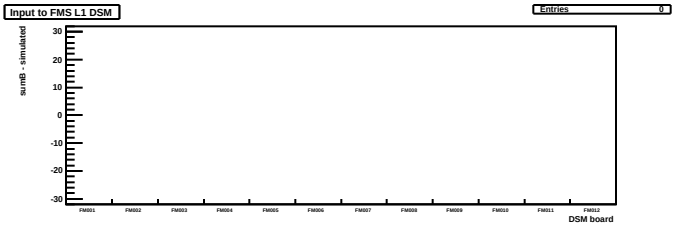

Input to FMS L1 DSM
Entries 4404732
sumC
DSM board

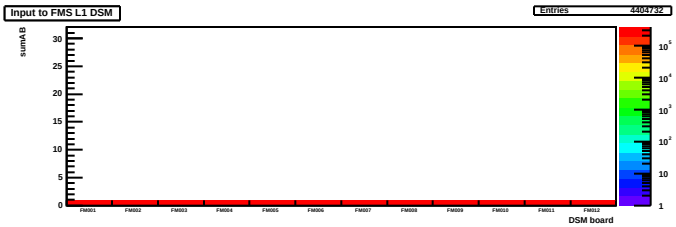

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

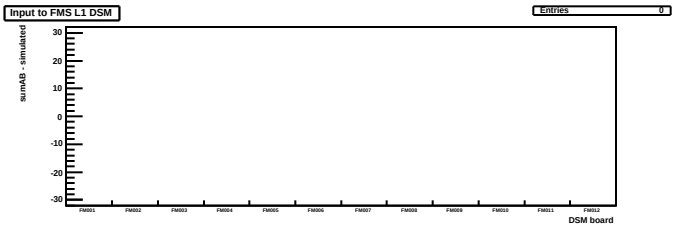

Input to FMS L1 DSM
Entries 4404732
sumBC
DSM board

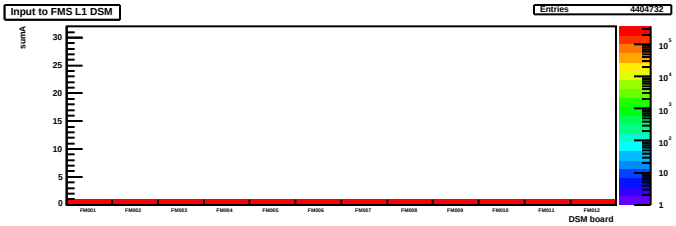

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

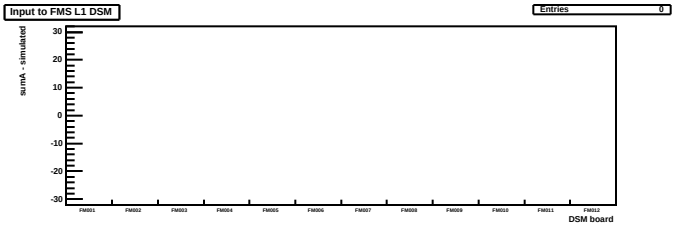

Input to FMS L1 DSM
Entries 4404732
sumB
DSM board

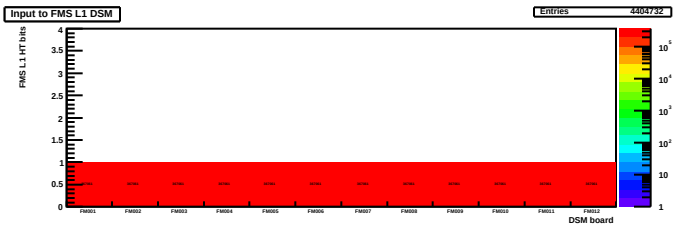

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

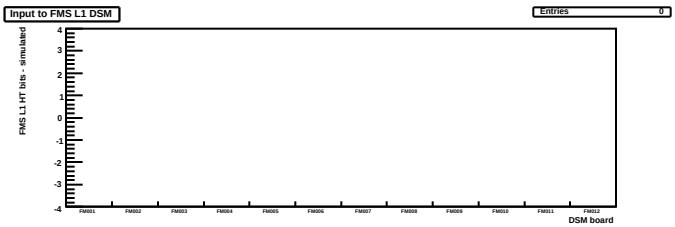

Input to FMS L1 DSM
Entries 4404732
sumAB
DSM board

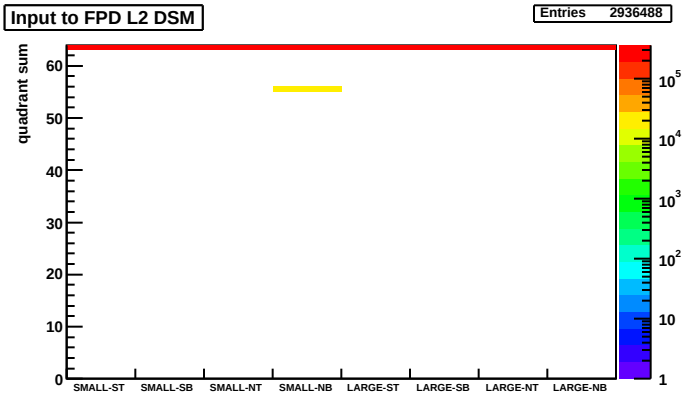

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

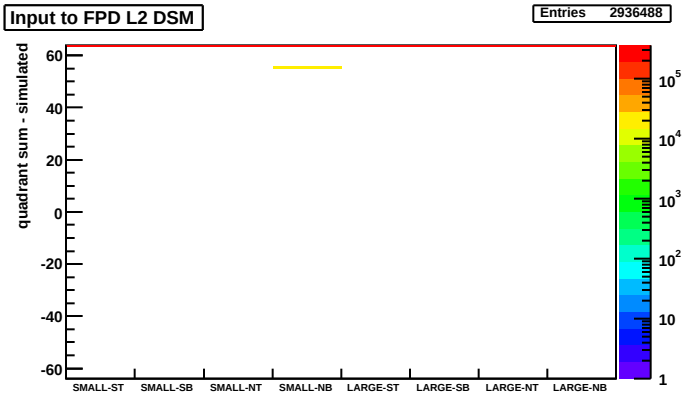

Input to FMS L1 DSM
Entries 4404732
sumA
DSM board

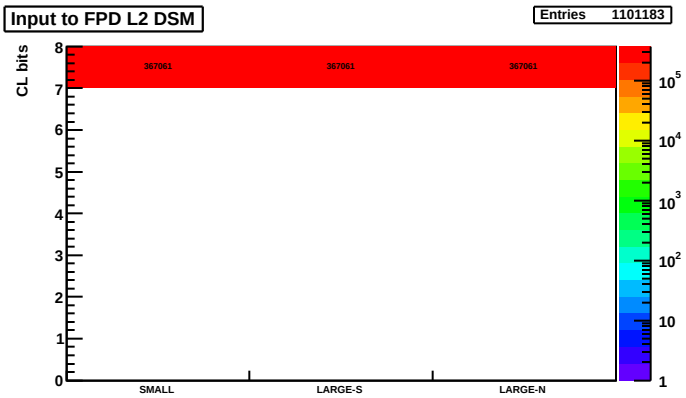

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

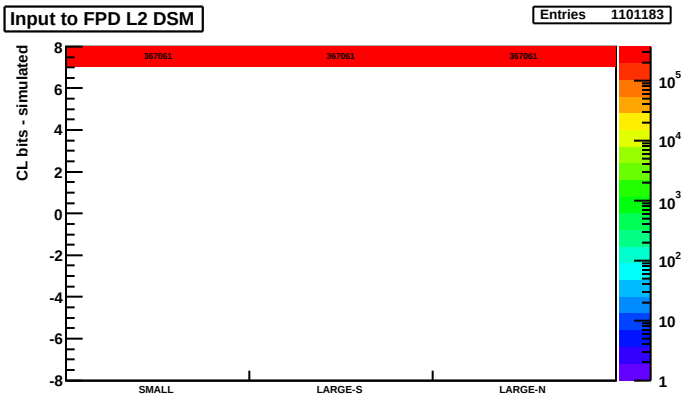

Input to FMS L1 DSM
Entries 4404732
FMS L1 HT bits
DSM board

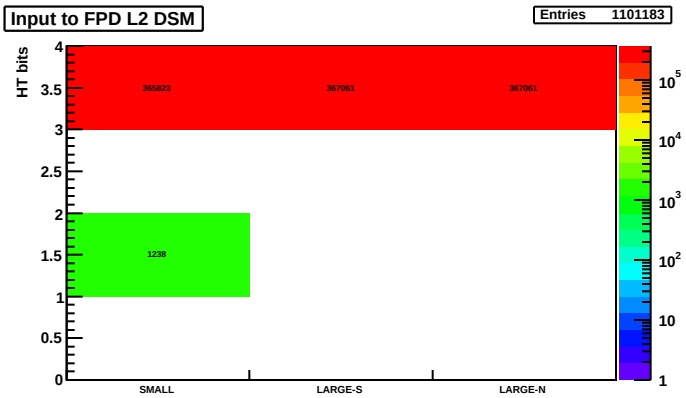

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

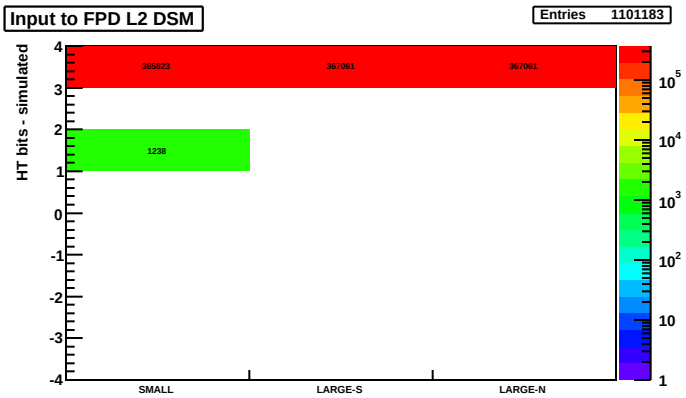

Input to FPD L2 DSM
Entries 2936488
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

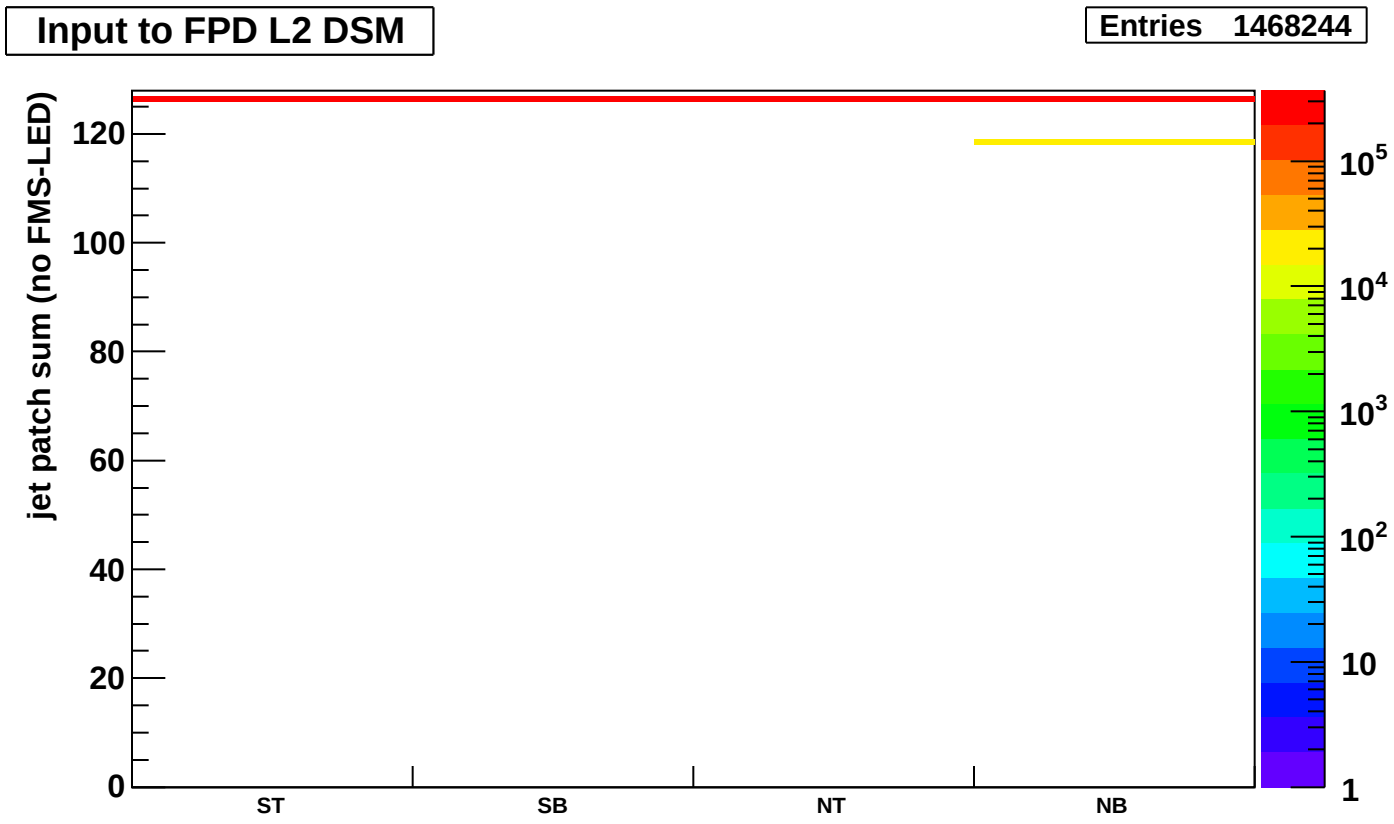

Input to FPD L2 DSM
Entries 2936488
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

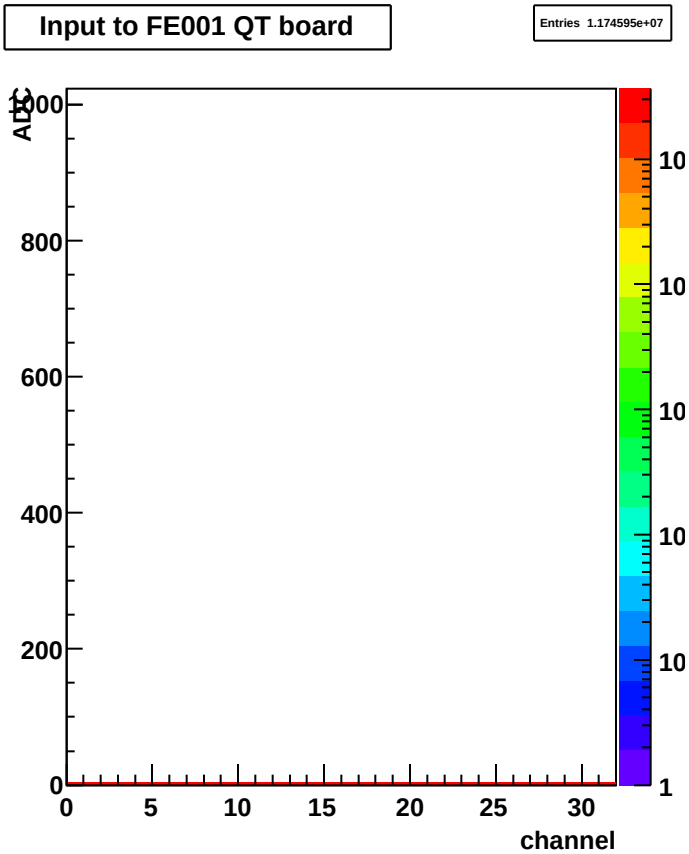

Input to FPD L2 DSM
Entries 1101183
CL bits
367061
367061
367061
SMALL
LARGE-S
LARGE-N

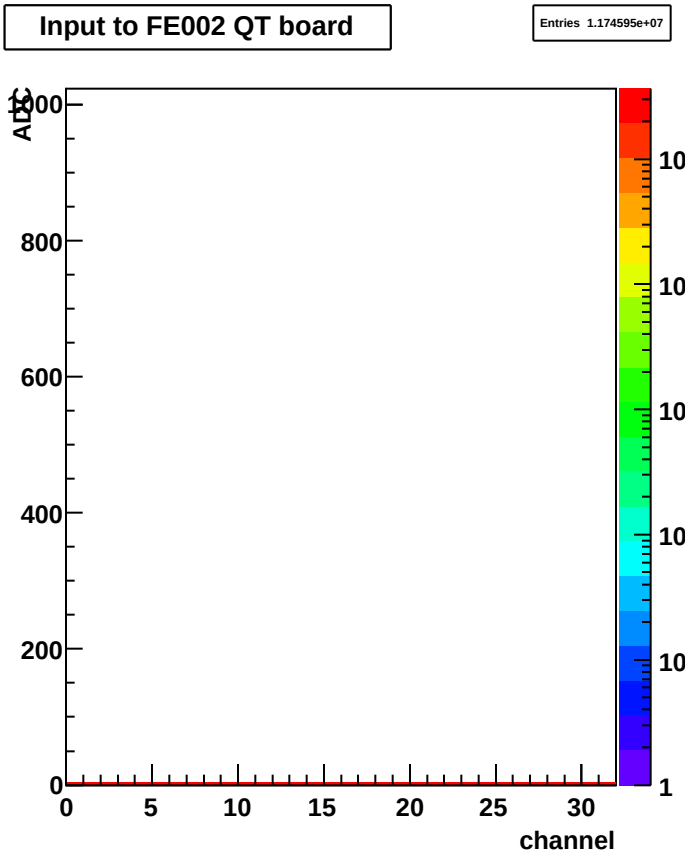

Input to FPD L2 DSM
Entries 1101183
CL bits - simulated
367061
367061
367061
SMALL
LARGE-S
LARGE-N

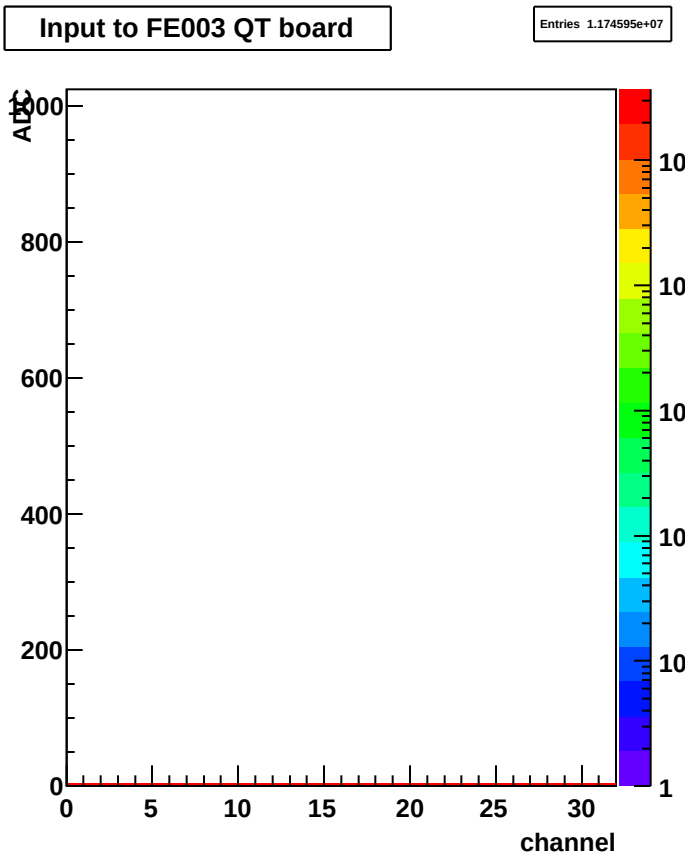

Input to FPD L2 DSM
Entries 1101183
HT bits
365823
367061
367061
1238
SMALL
LARGE-S
LARGE-N

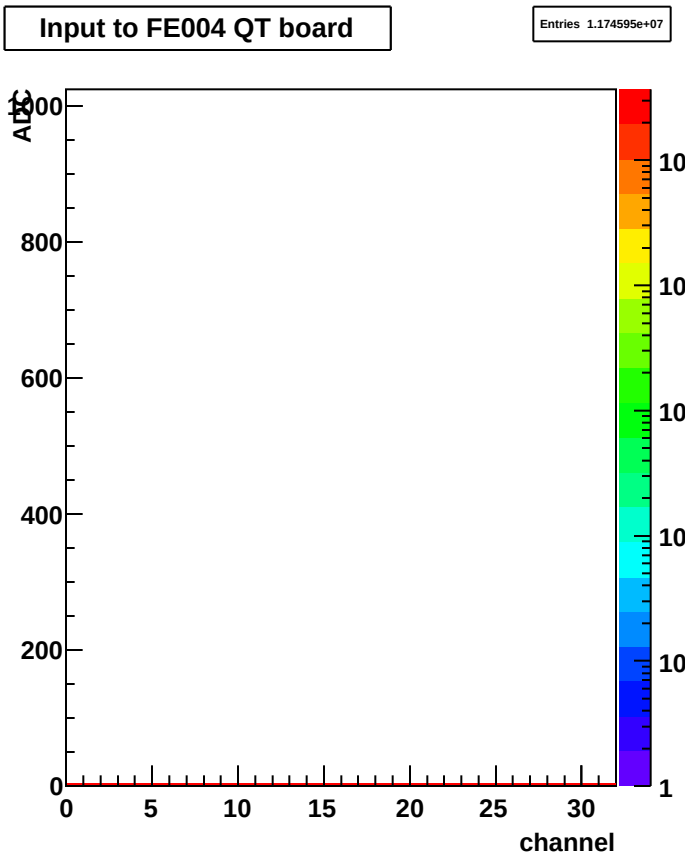

Input to FPD L2 DSM
Entries 1101183
HT bits - simulated
365823
367061
367061
1238
SMALL
LARGE-S
LARGE-N

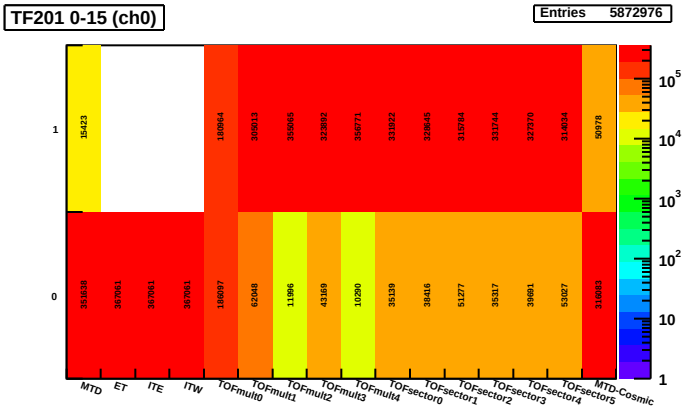

Input to FPD L2 DSM
Entries 1468244
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

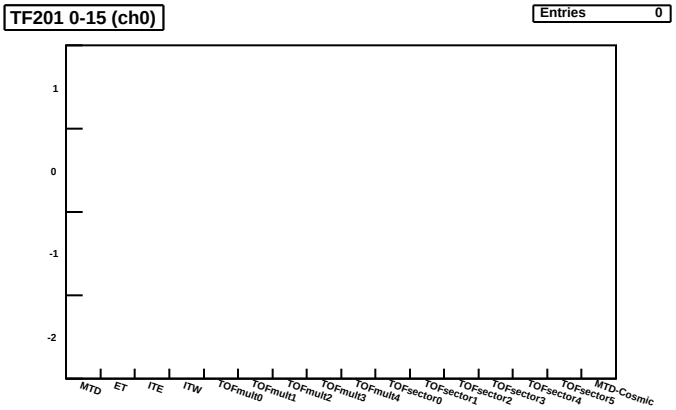

Input to FE001 QT board
Entries 1.174595e+07
ADC
channel

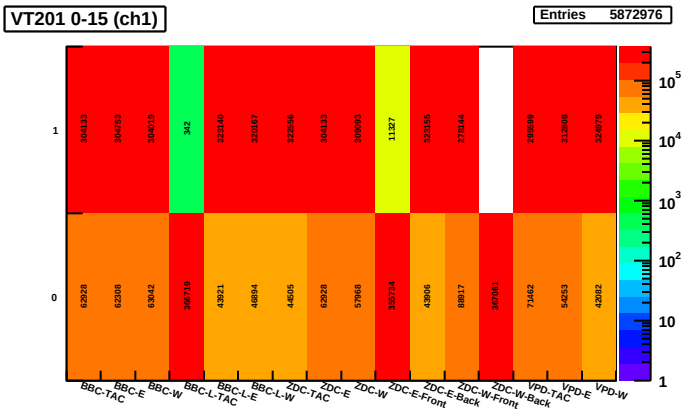

Input to FE002 QT board
Entries 1.174595e+07
ADC
channel

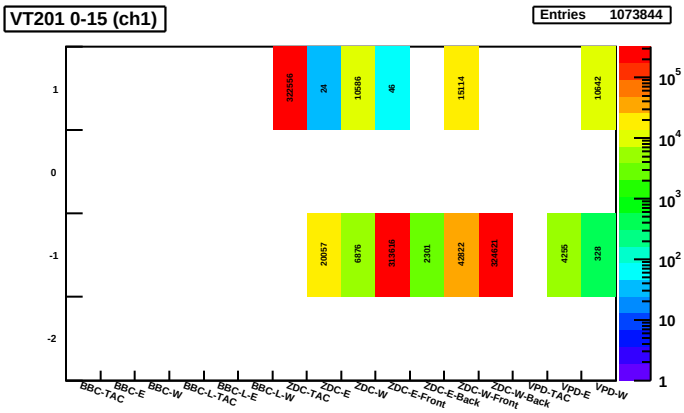

Input to FE003 QT board
Entries 1.174595e+07
ADC
channel

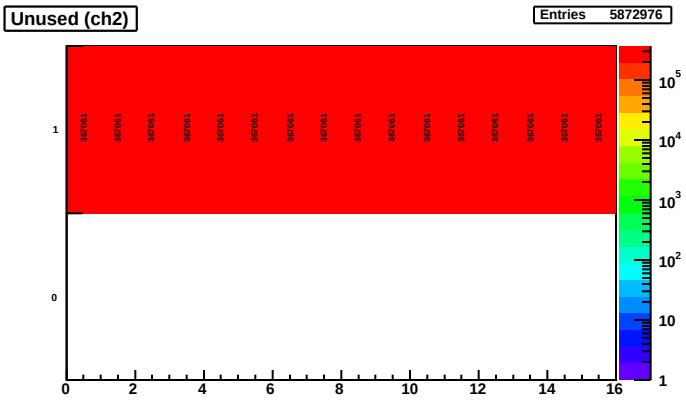

Input to FE004 QT board
Entries 1.174595e+07
ADC
channel

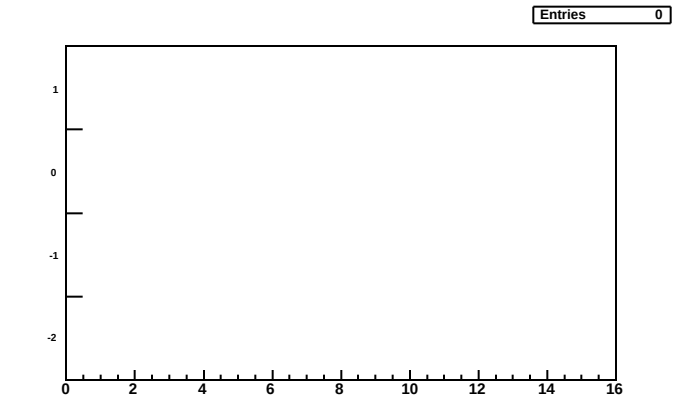

TF201 0-15 (ch0)
Entries 5872976
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

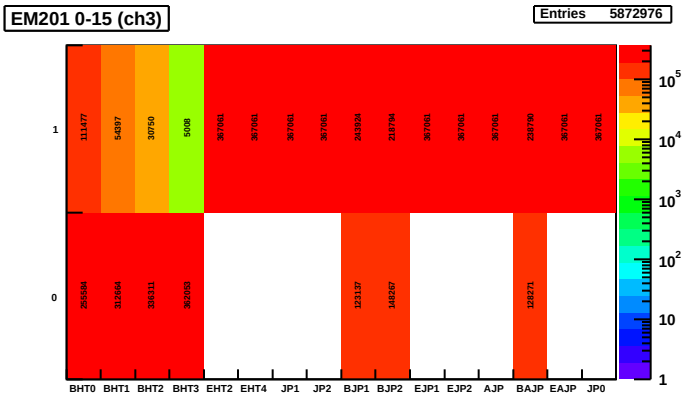

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

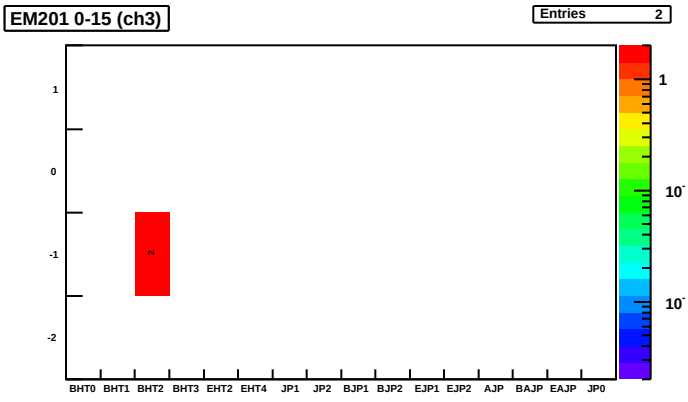

VT201 0-15 (ch1)
Entries 5872976
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1073844
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

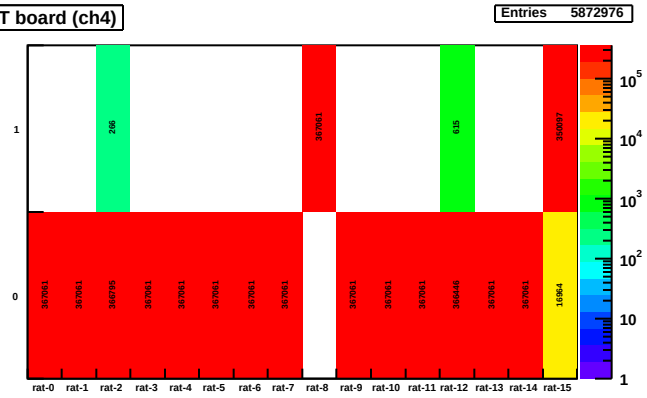

Unused (ch2)
Entries 5872976

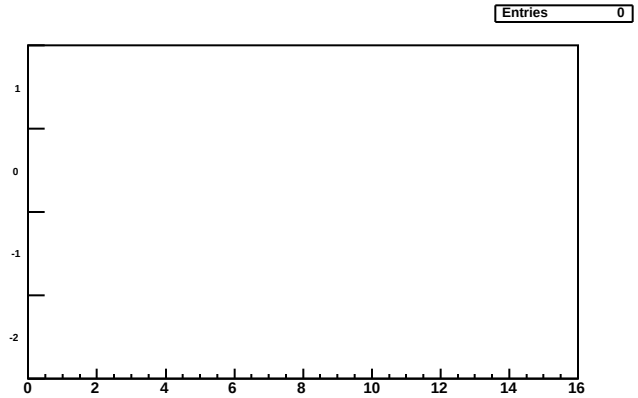

Entries 0


EM201 0-15 (ch3)
Entries 5872976
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

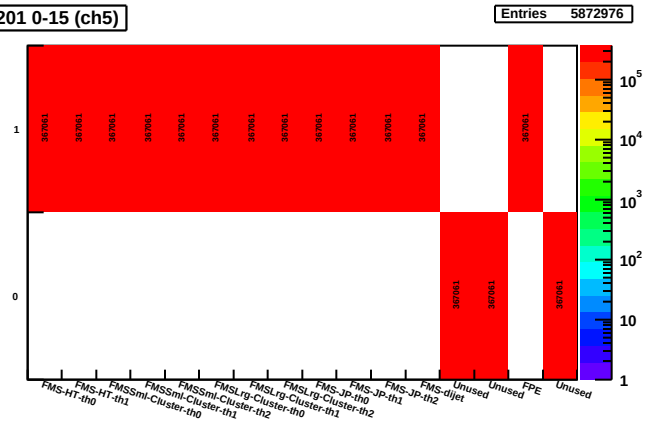

EM201 0-15 (ch3)
Entries 2
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

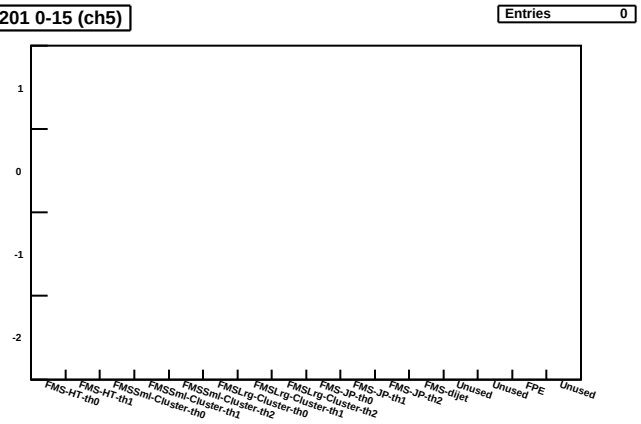




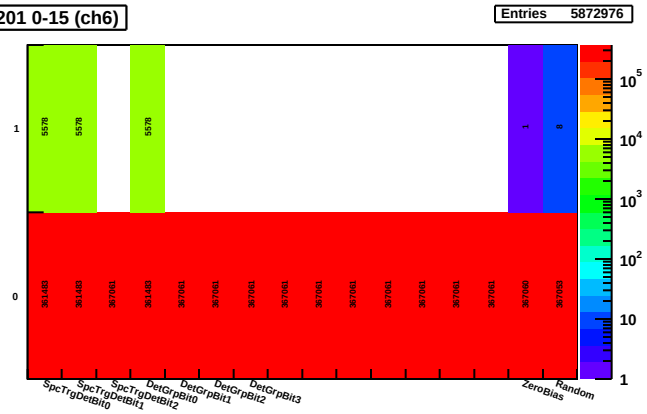
FP201 0-15 (ch5)

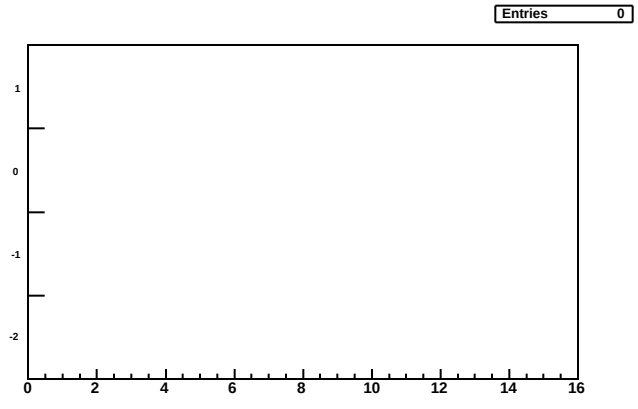
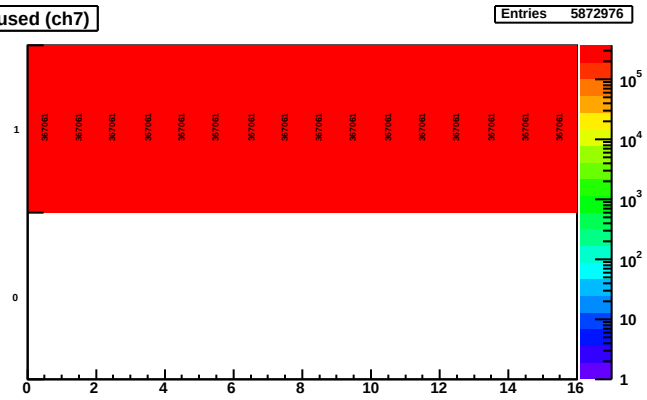
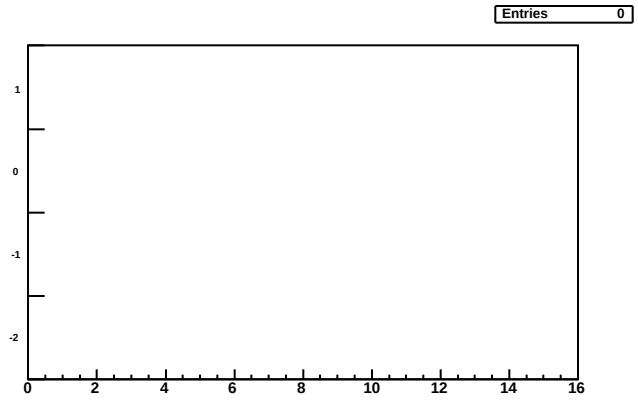


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)