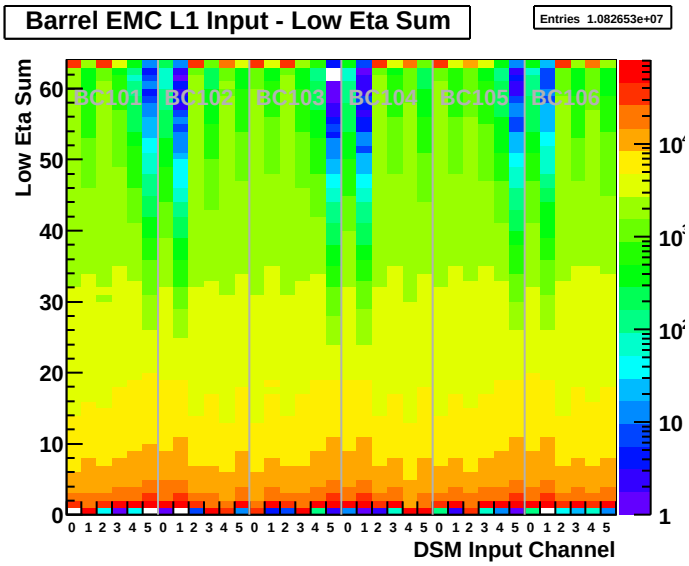
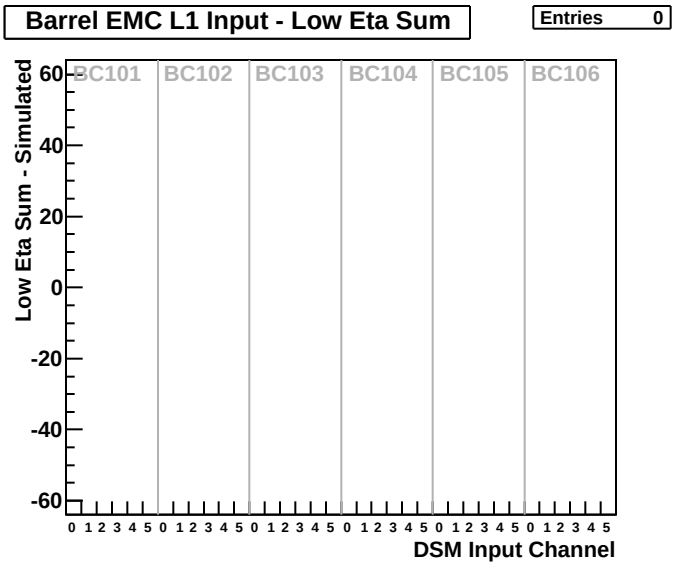
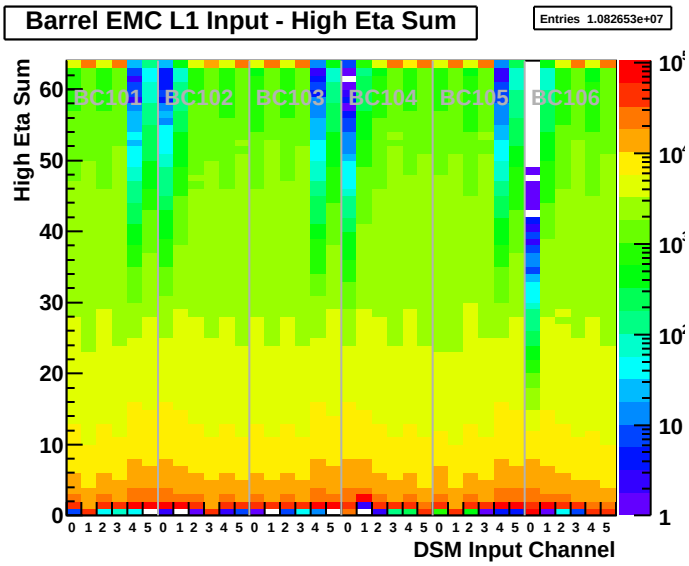
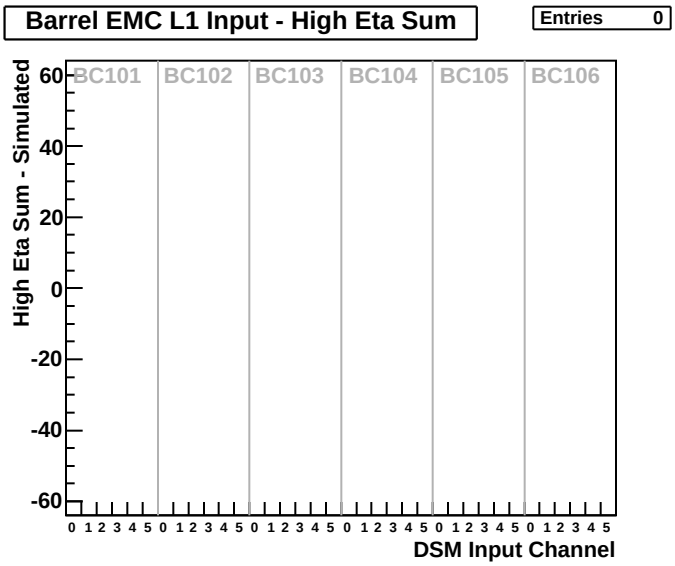
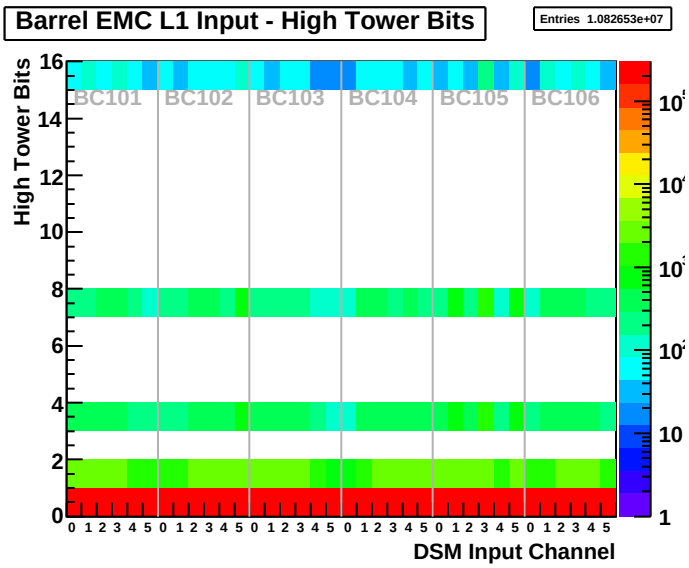
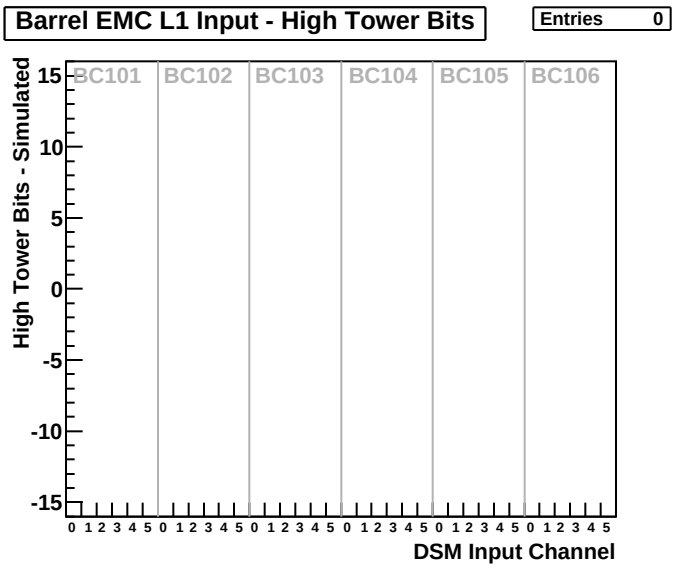

Barrel EMC L1 Input - Low Eta Sum
Entries 1.082653e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

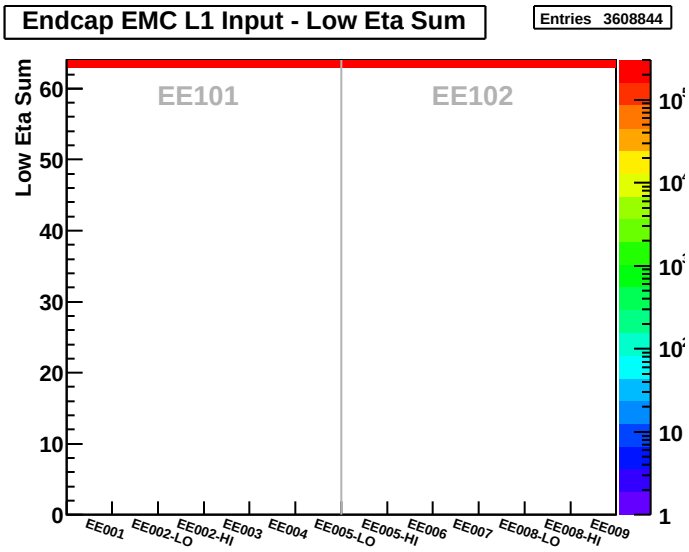

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

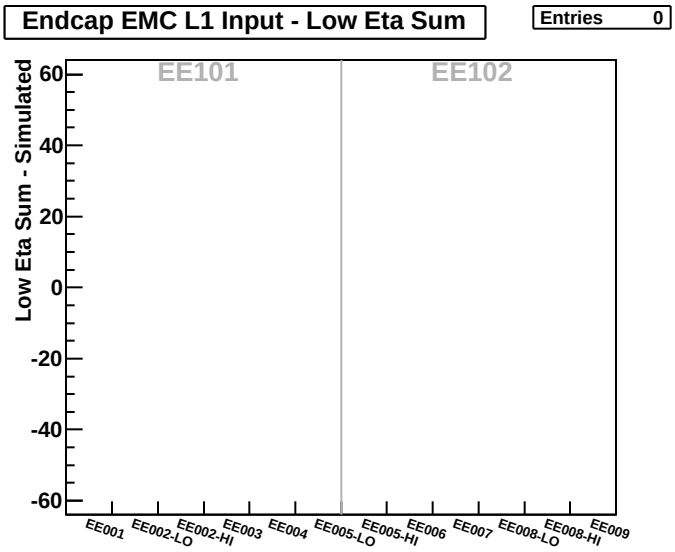

Barrel EMC L1 Input - High Eta Sum
Entries 1.082653e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

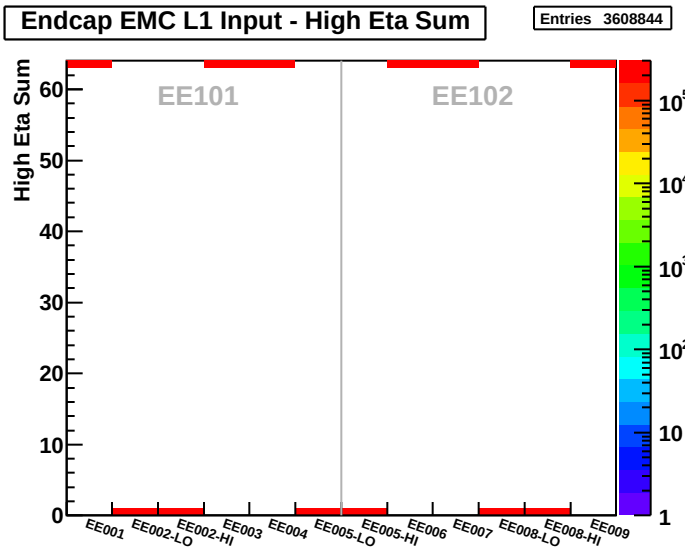

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

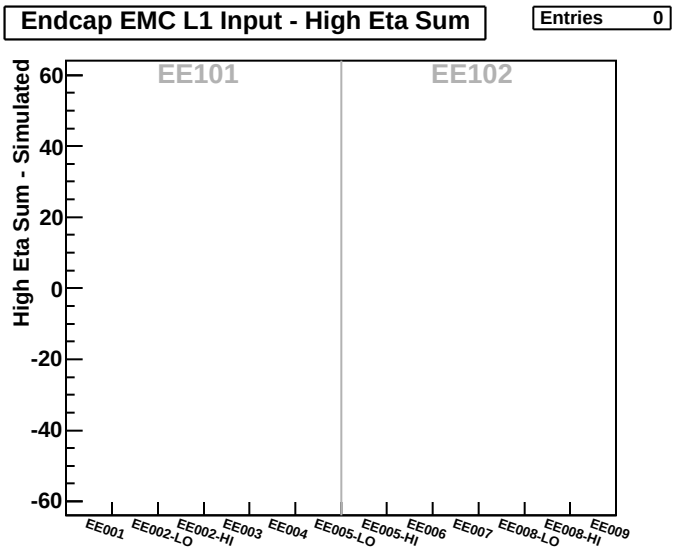

Barrel EMC L1 Input - High Tower Bits
Entries 1.082653e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

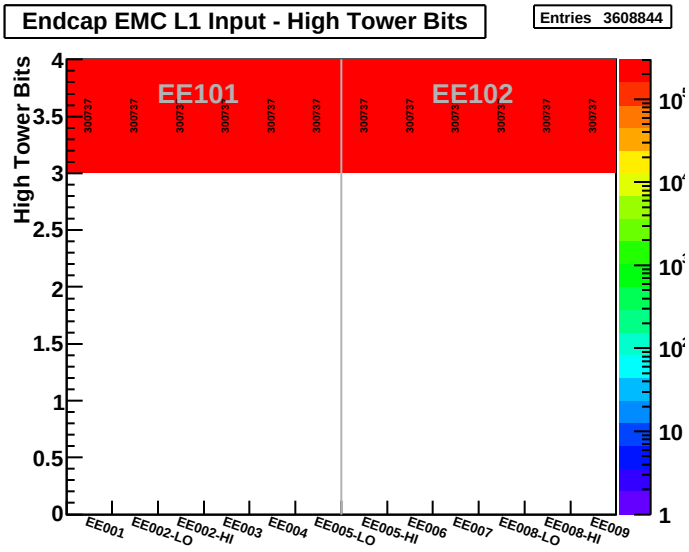

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

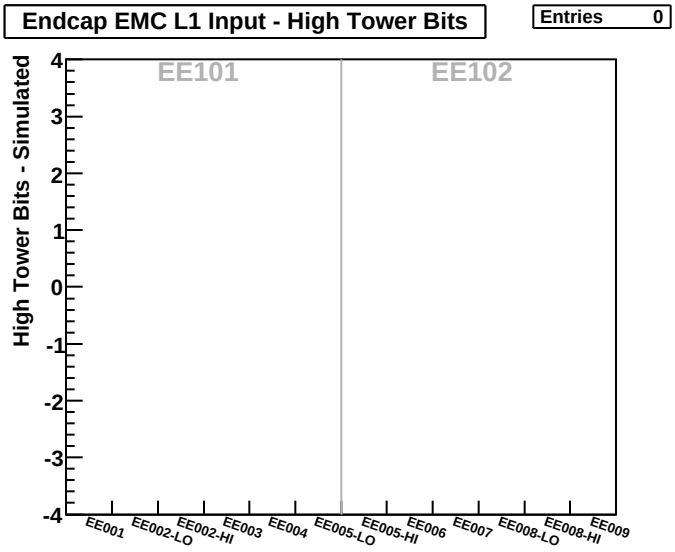

Endcap EMC L1 Input - Low Eta Sum
Entries 3608844
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

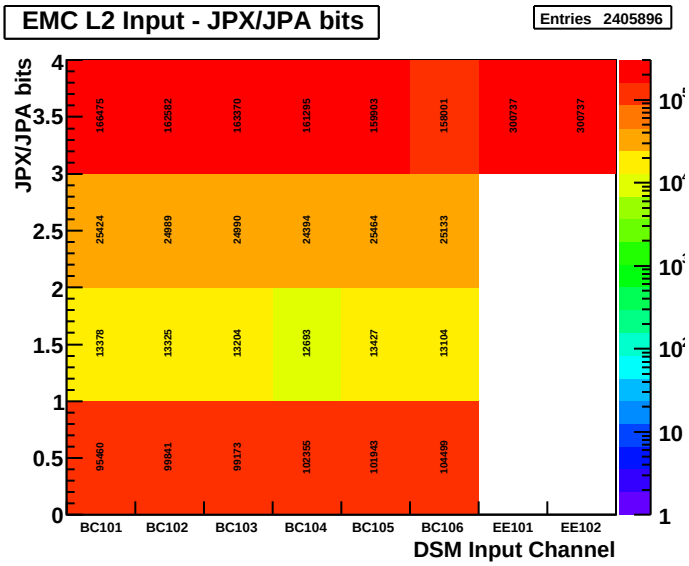

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

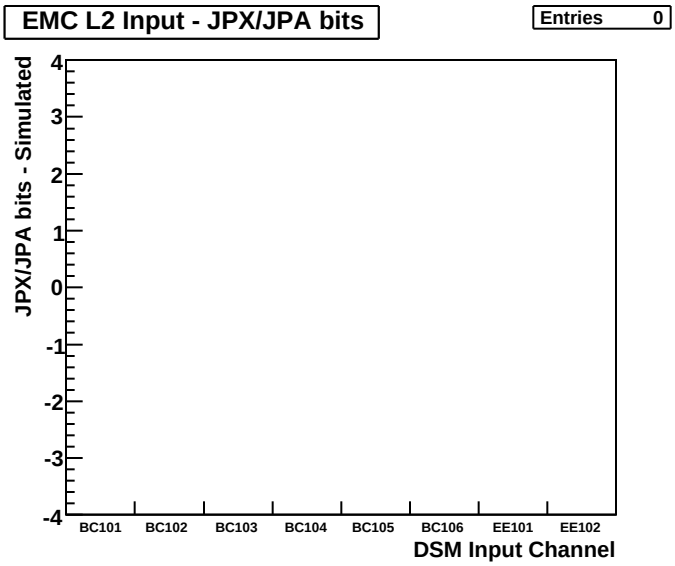

Endcap EMC L1 Input - High Eta Sum
Entries 3608844
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

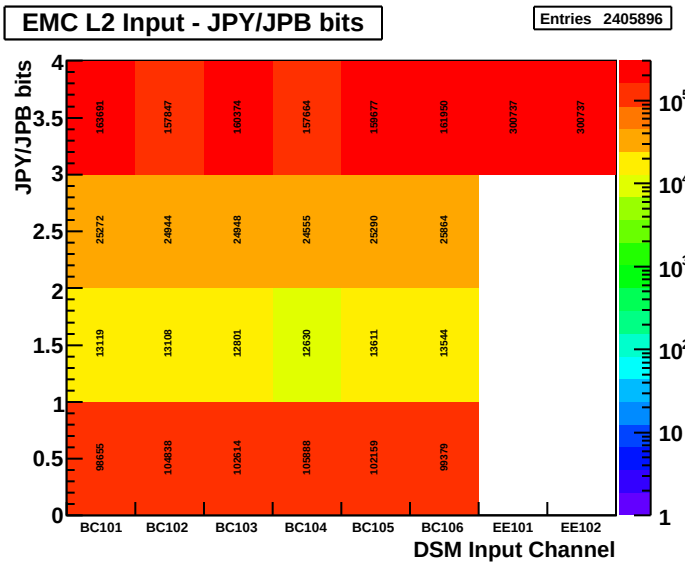

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

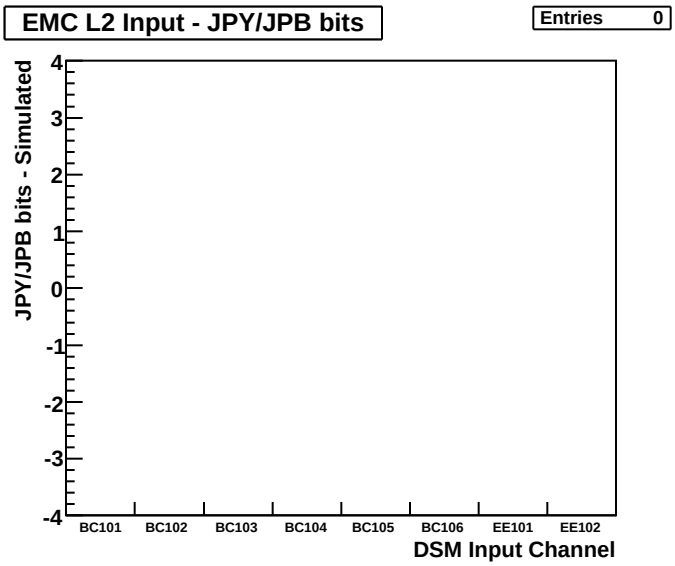

Endcap EMC L1 Input - High Tower Bits
Entries 3608844
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

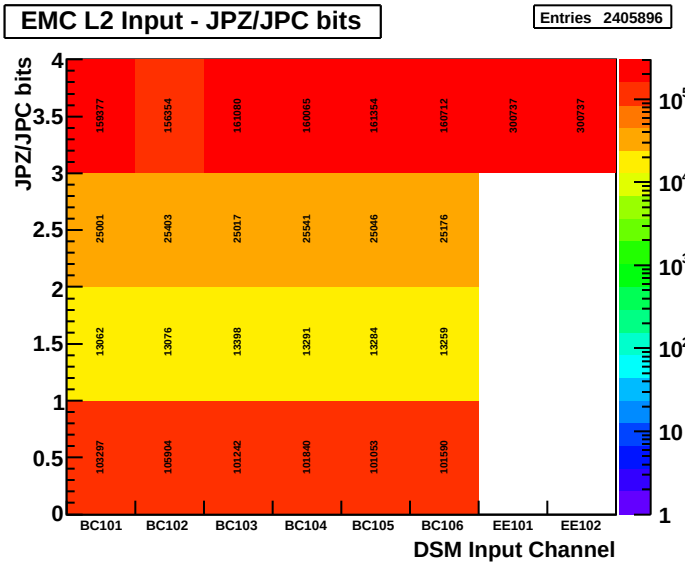

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

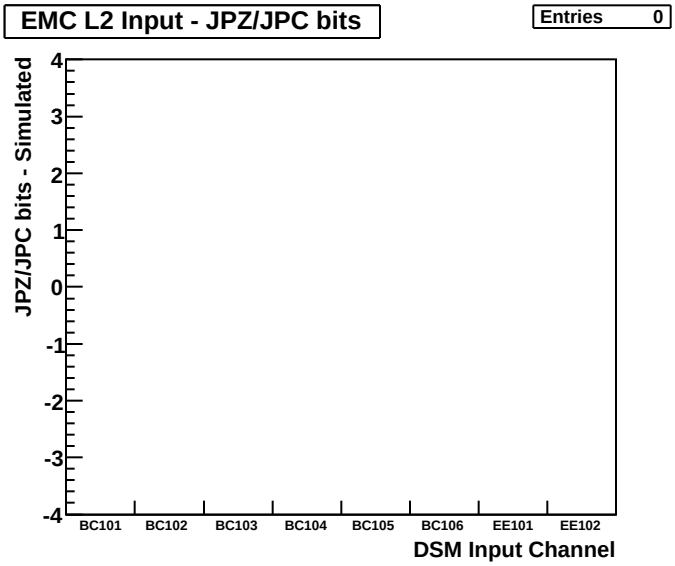

EMC L2 Input - JPX/JPA bits
Entries 2405896
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
156475 162582 163370 161295 159903 158001 300737 300737
25424 24989 24990 24394 25464 25133
13378 13325 13204 12693 13427 13104
99460 99841 99173 102355 101943 104499

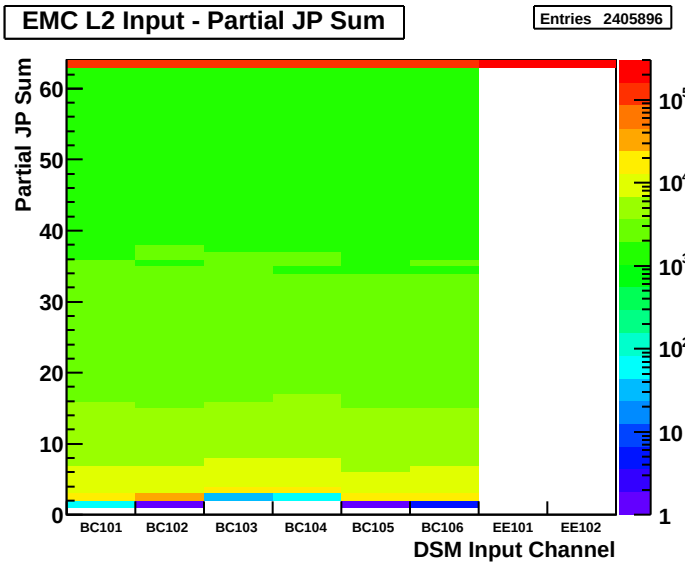

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

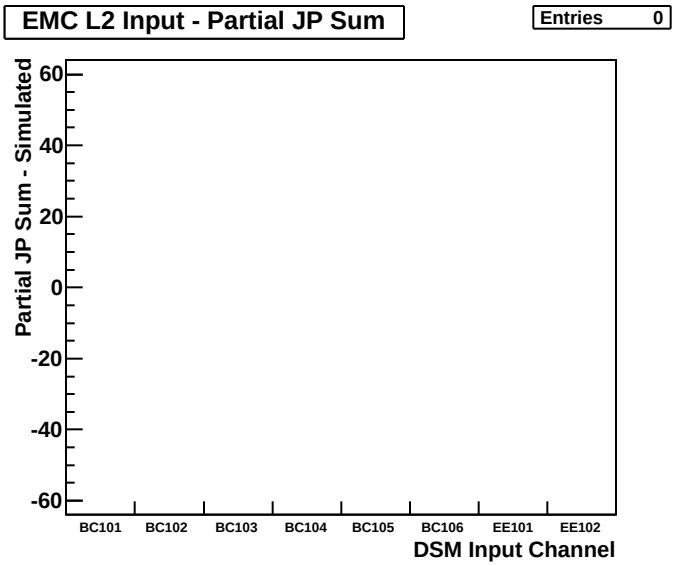

EMC L2 Input - JPY/JPB bits
Entries 2405896
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
163691 157847 160374 157664 159677 161950 300737 300737
25272 24844 24848 24555 25290 25864
13119 13108 12801 12630 13611 13544
98655 104838 103614 105888 102159 99379

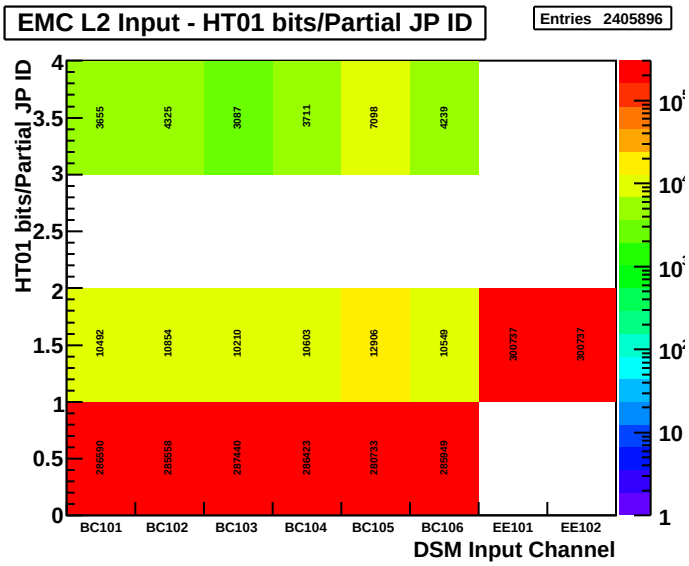

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

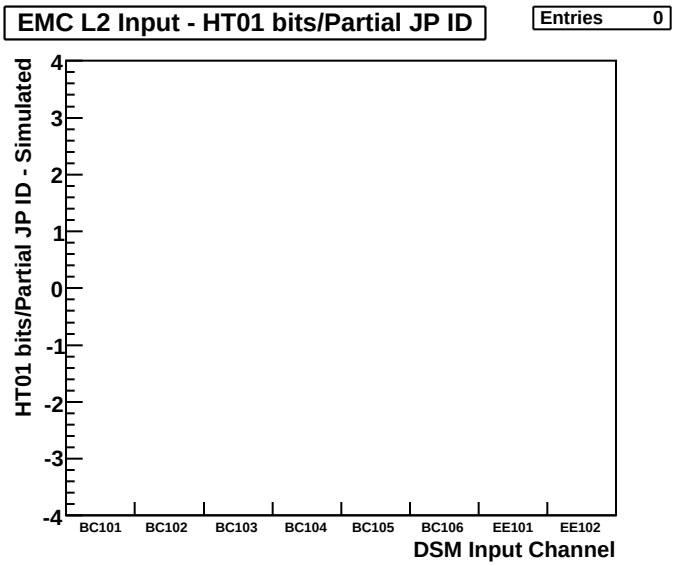

EMC L2 Input - JPZ/JPC bits
Entries 2405896
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
158377 158354 161080 160065 161354 160712 300737 300737
25001 25403 25017 25541 25046 25176
13062 13076 13398 13291 13284 13259
103297 105904 101242 101840 101053 101590

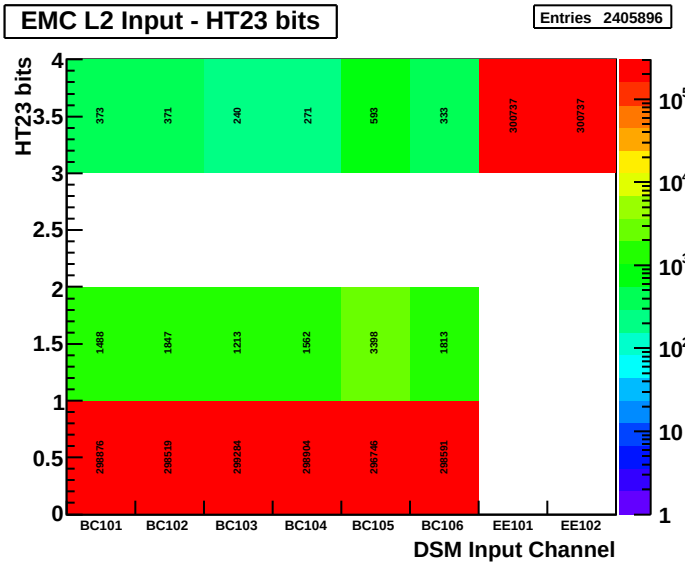

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

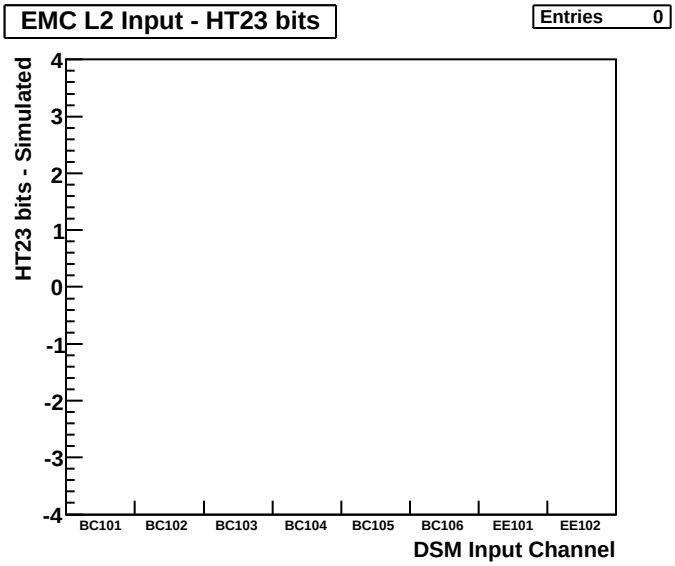

EMC L2 Input - Partial JP Sum
Entries 2405896
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

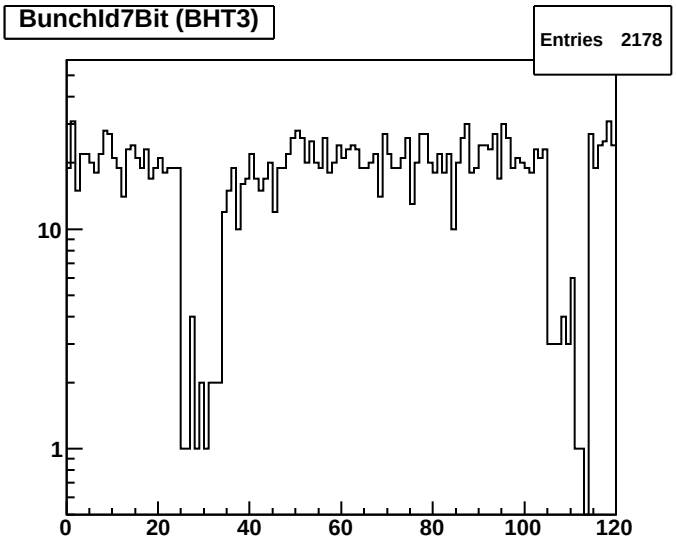

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

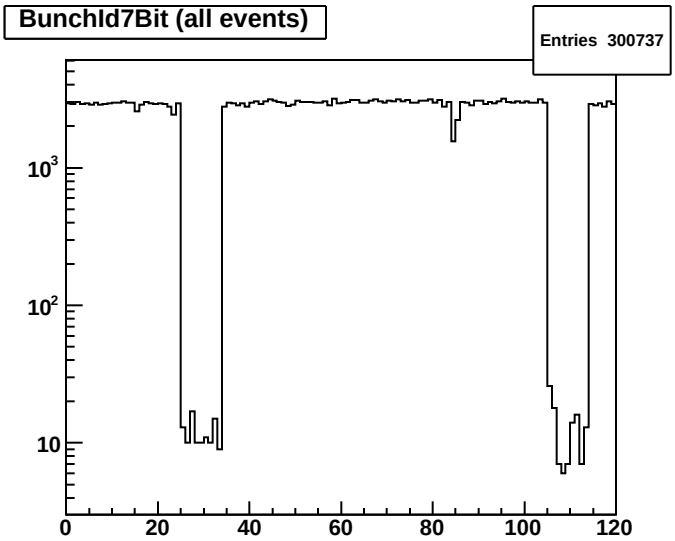

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2405896
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

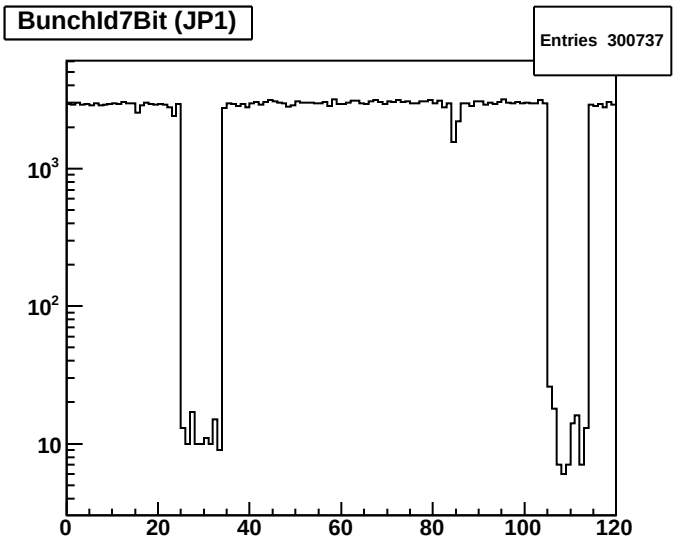

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

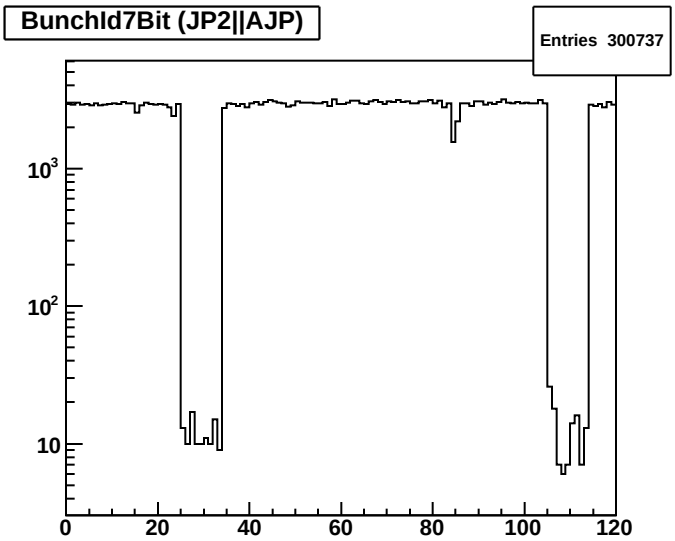

EMC L2 Input - HT23 bits
Entries 2405896
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

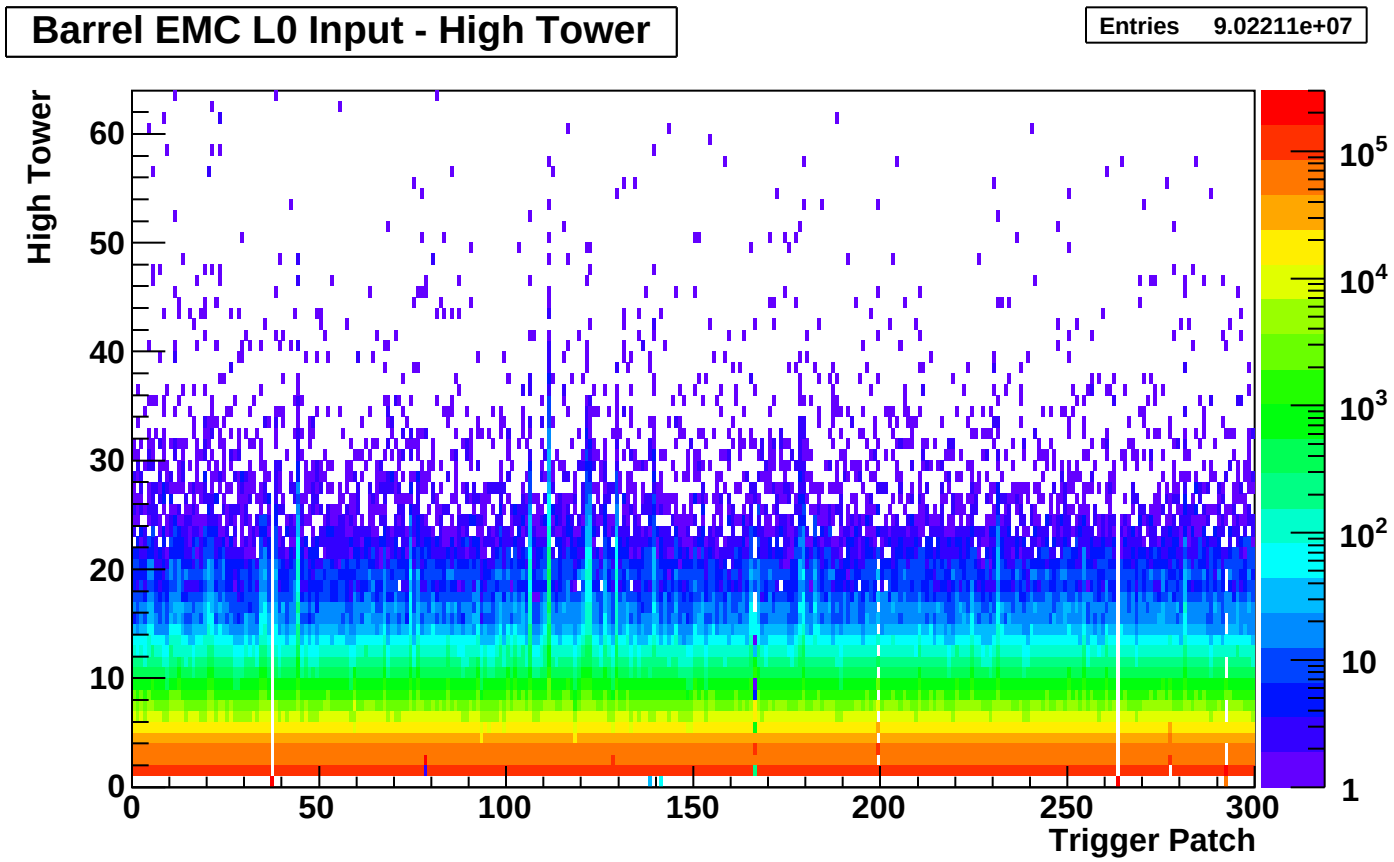

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

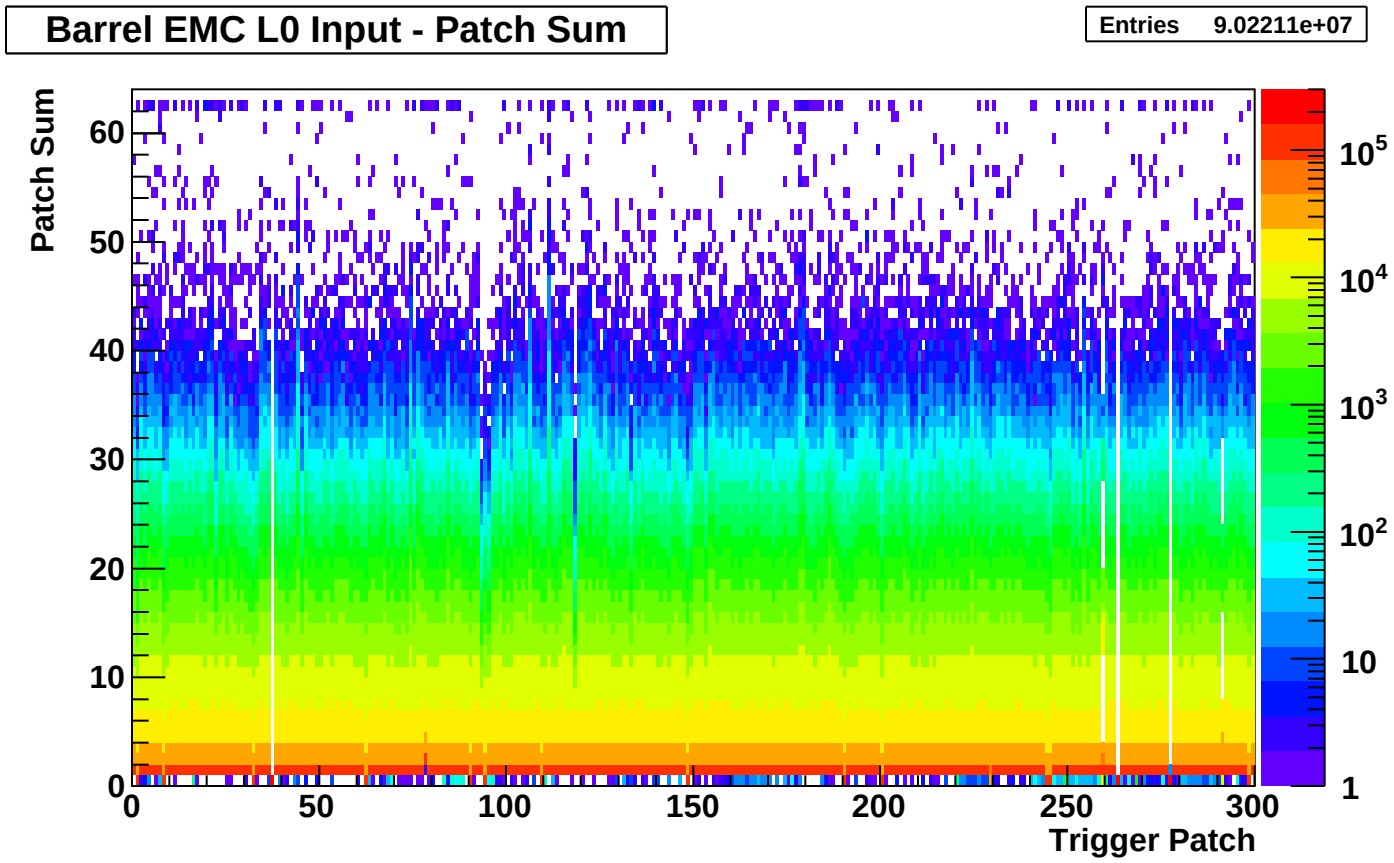

BunchId7Bit (BHT3)
Entries 2178
10
1
0
20
40
60
80
100
120

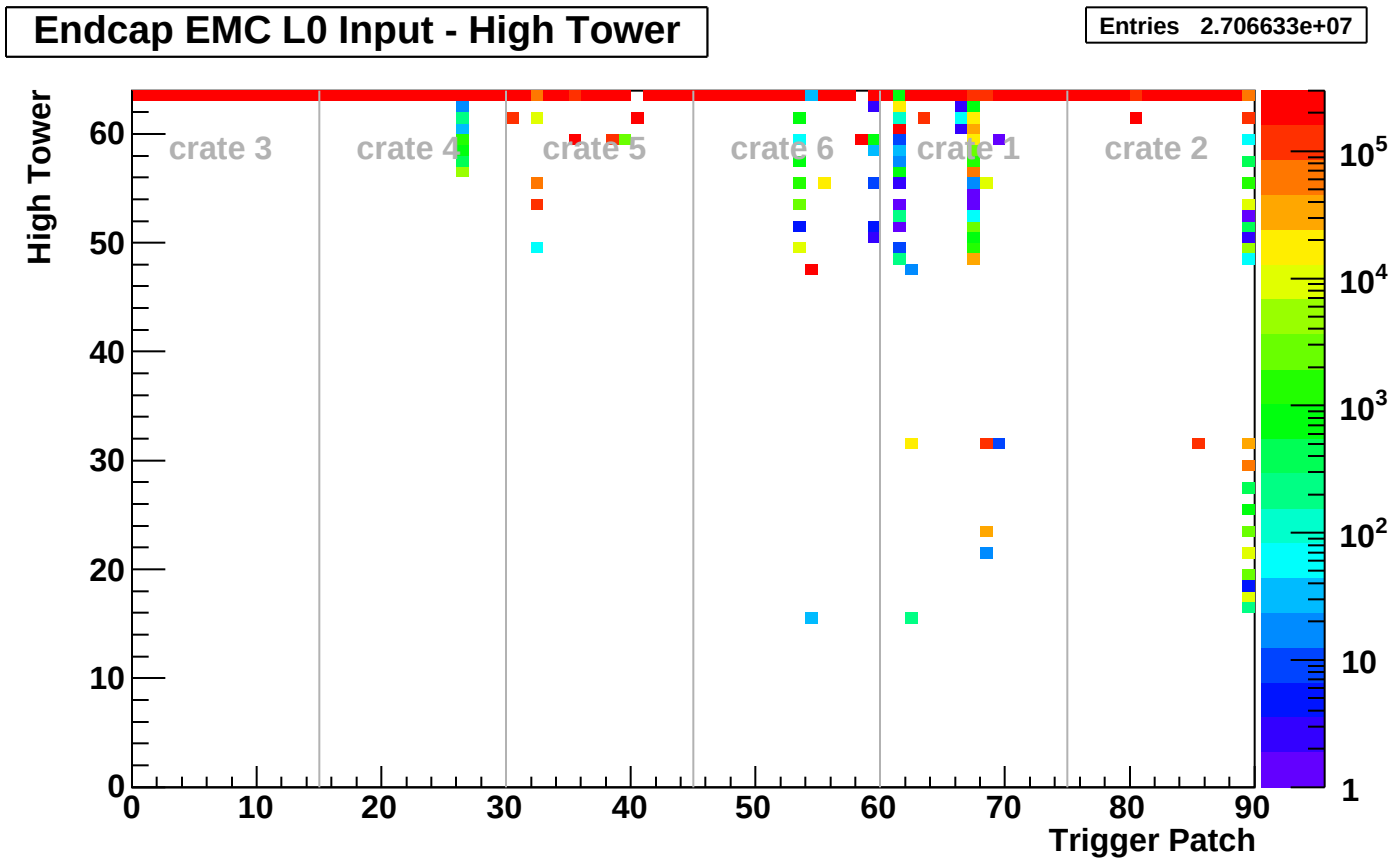

BunchId7Bit (all events)
Entries 300737
10^3
10^2
10
0
20
40
60
80
100
120

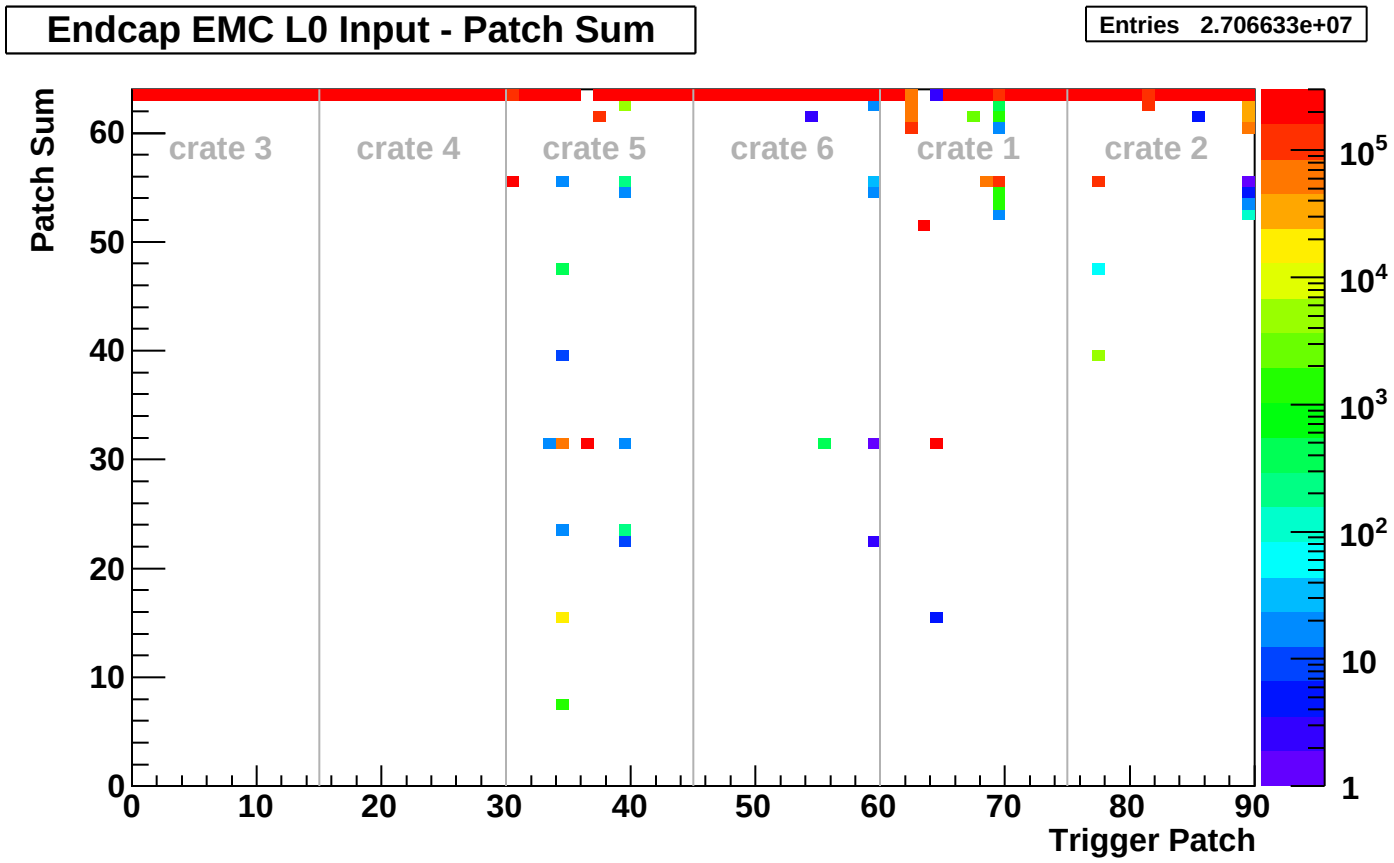

BunchId7Bit (JP1)
Entries 300737
10^3
10^2
10
0
20
40
60
80
100
120

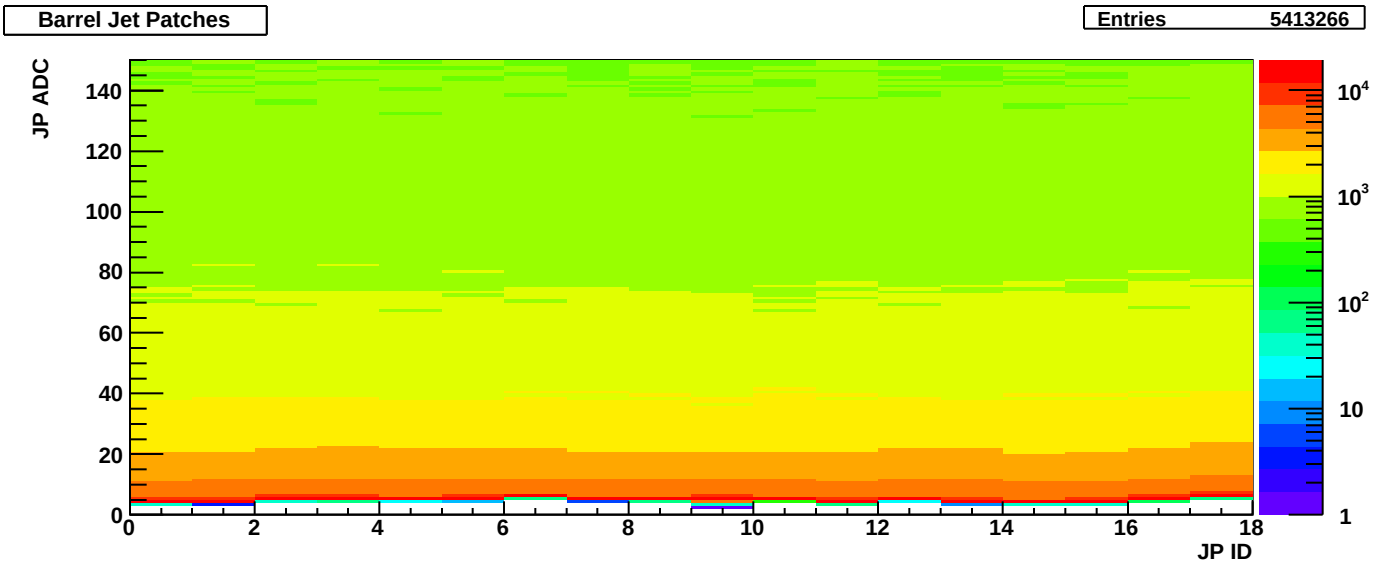

BunchId7Bit (JP2||AJP)
Entries 300737
10^3
10^2
10
0
20
40
60
80
100
120

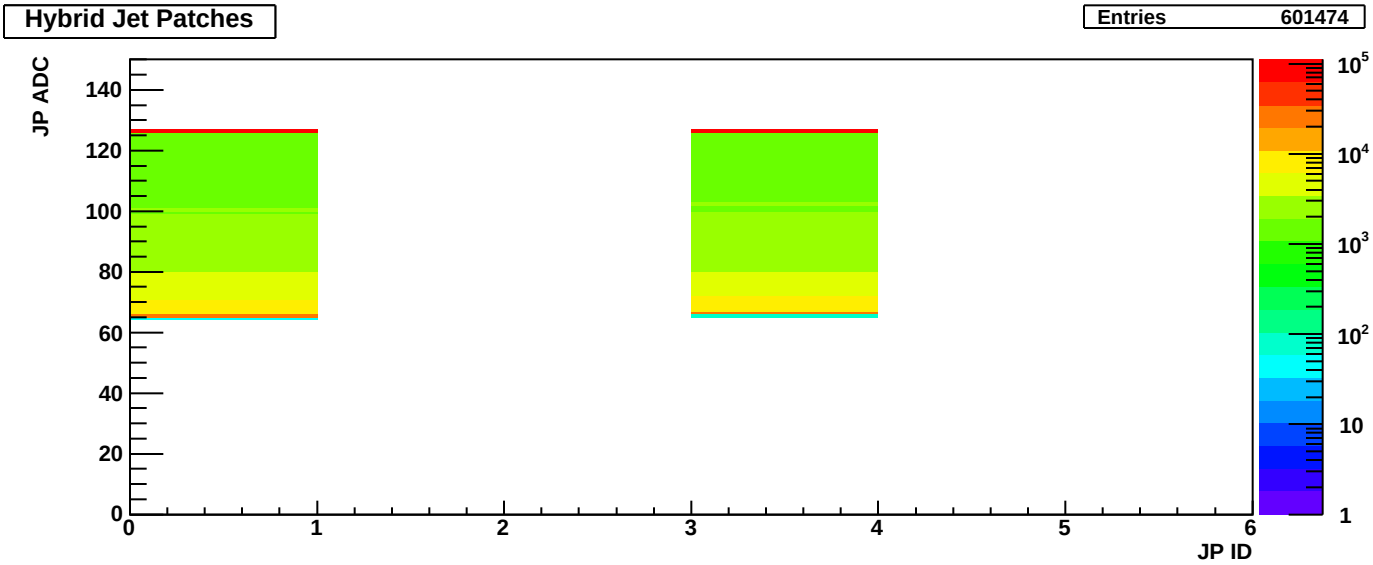

Barrel EMC L0 Input - High Tower
Entries 9.02211e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

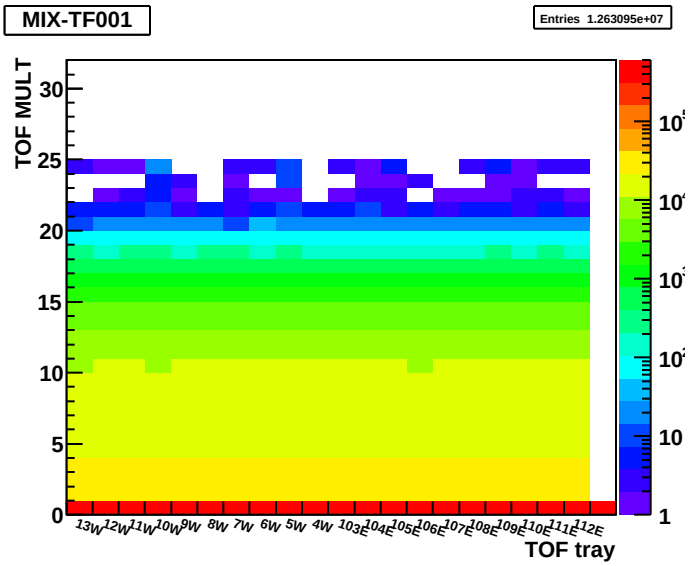

Barrel EMC L0 Input - Patch Sum
Entries 9.02211e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

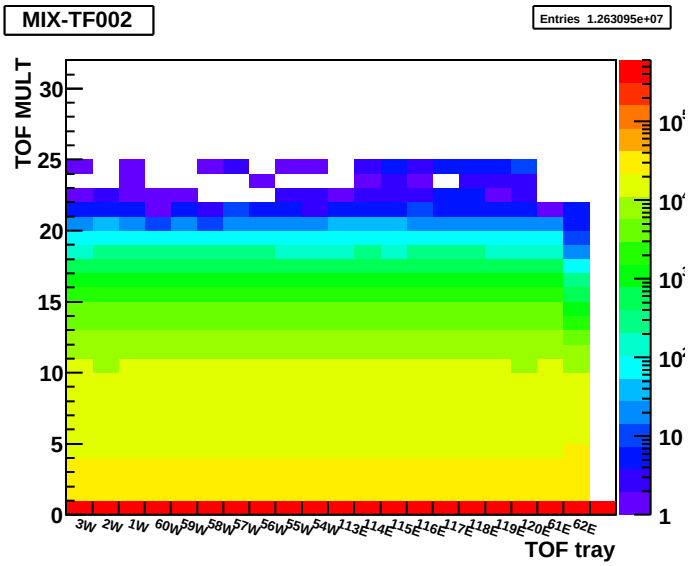

Endcap EMC L0 Input - High Tower
Entries 2.706633e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

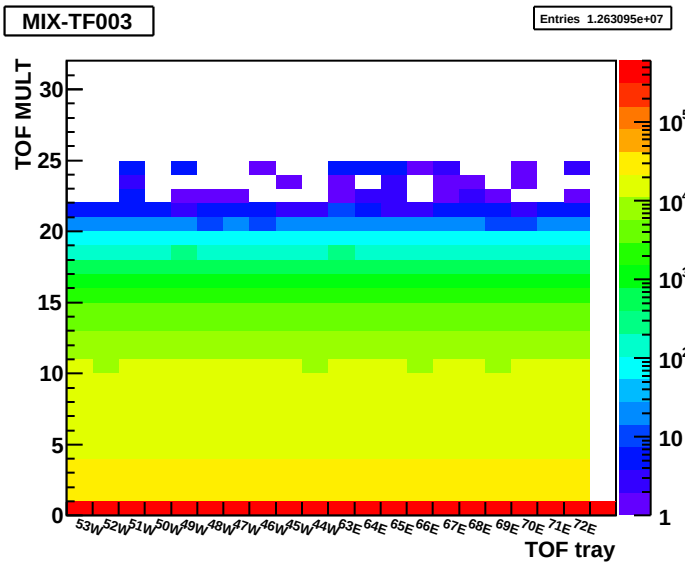

Endcap EMC L0 Input - Patch Sum
Entries 2.706633e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

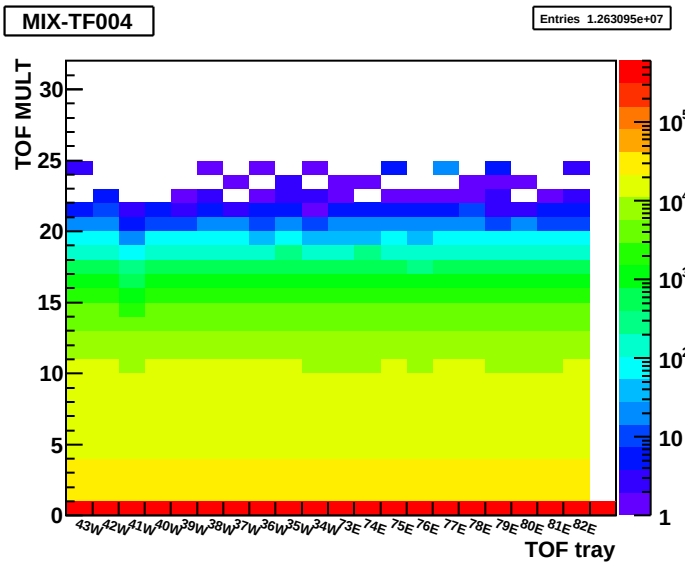

Barrel Jet Patches
Entries 5413266
JP ADC
JP ID

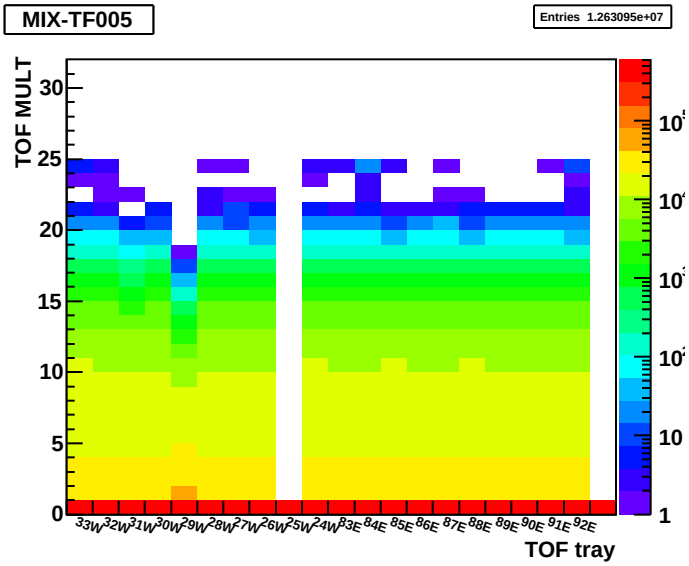

Hybrid Jet Patches
Entries 601474
JP ADC
JP ID

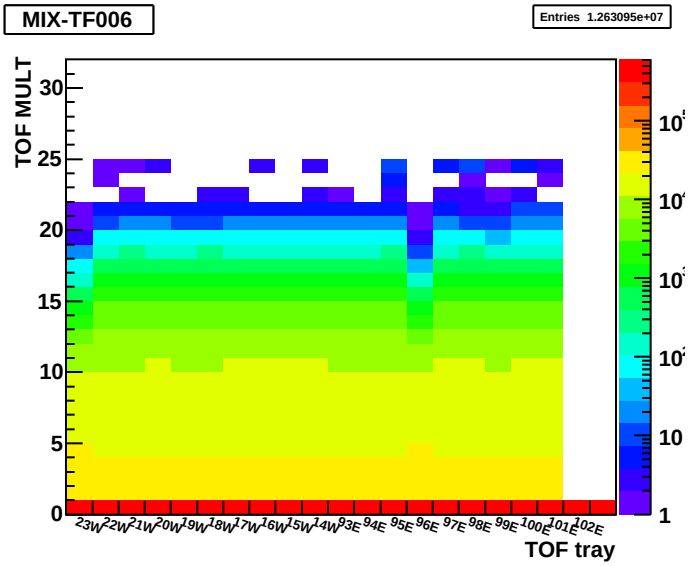

MIX-TF001
Entries 1.263095e+07
TOF MULT
TOF tray

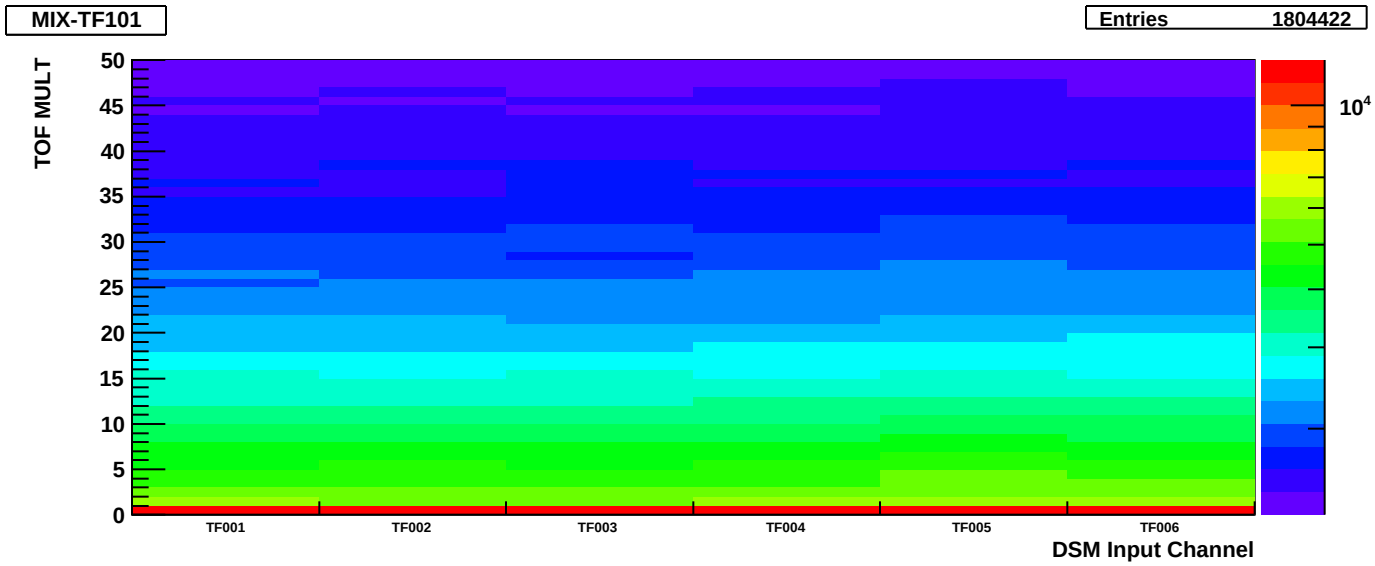

MIX-TF002
Entries 1.263095e+07
TOF MULT
TOF tray

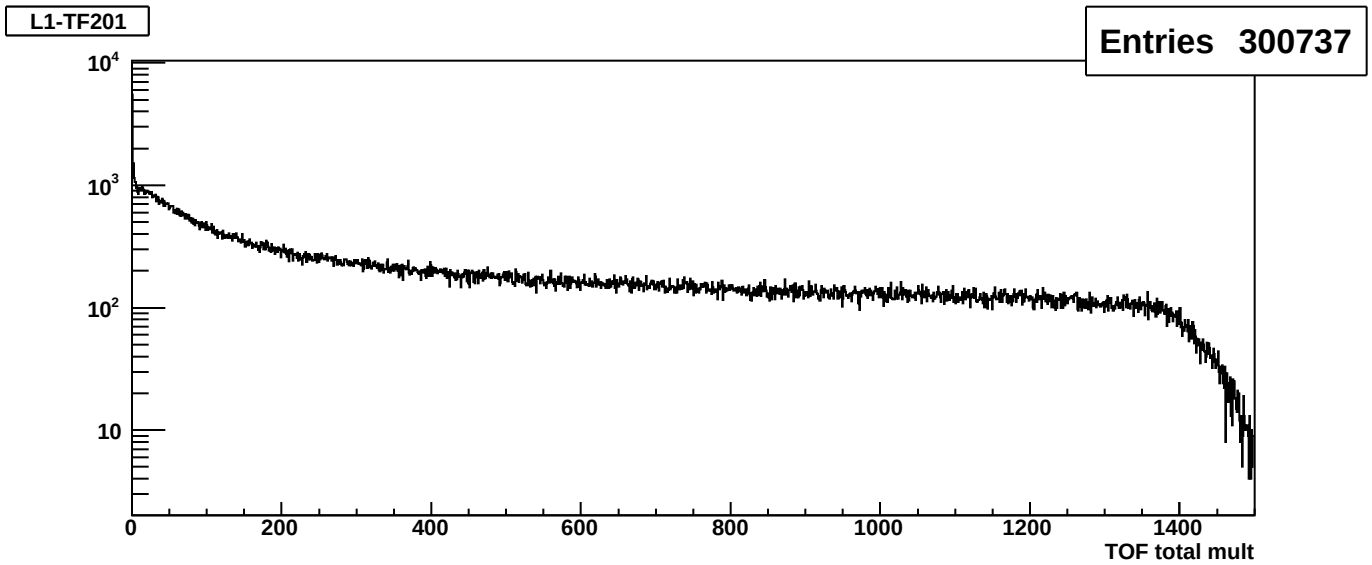

MIX-TF003
Entries 1.263095e+07
TOF MULT
TOF tray

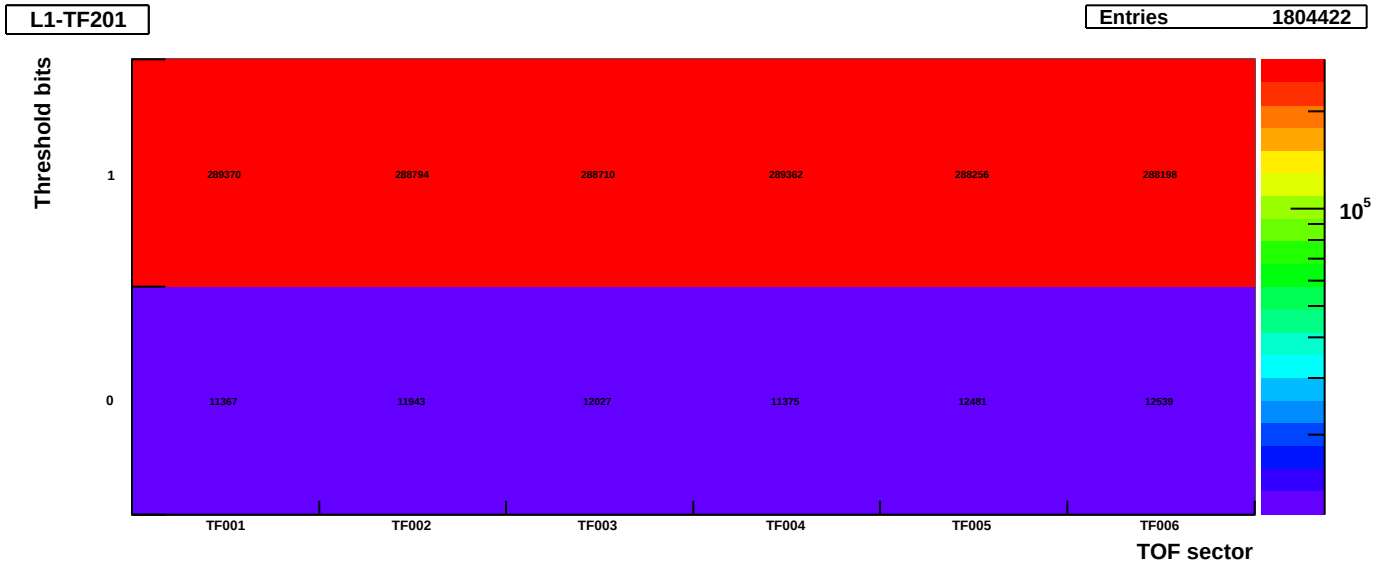

MIX-TF004
Entries 1.263095e+07
TOF MULT
TOF tray

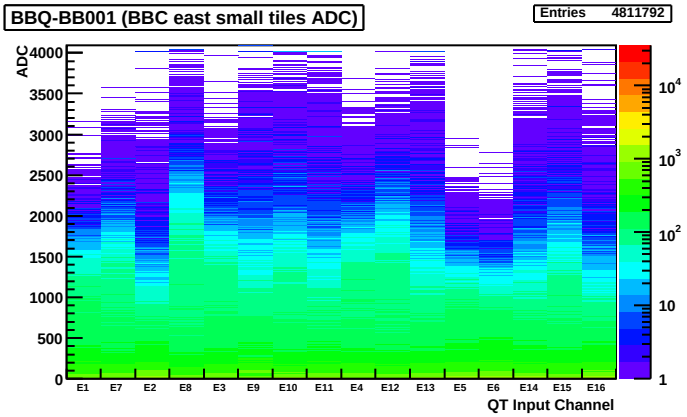

MIX-TF005
Entries 1.263095e+07
TOF MULT
TOF tray

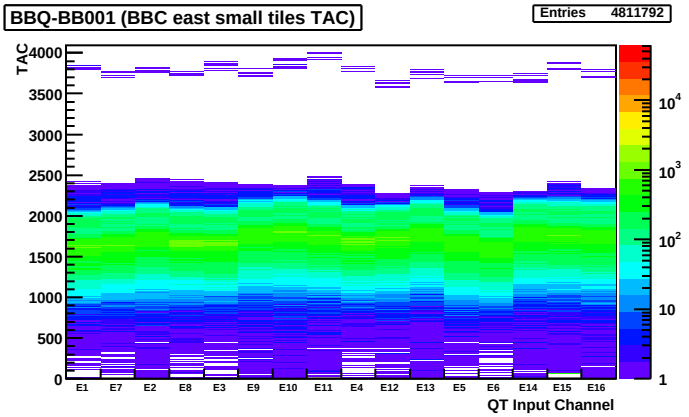

MIX-TF006
Entries 1.263095e+07
TOF MULT
TOF tray

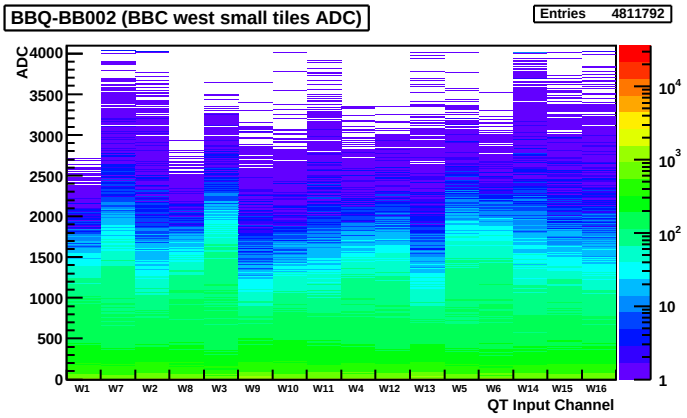

MIX-TF101
Entries 1804422
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

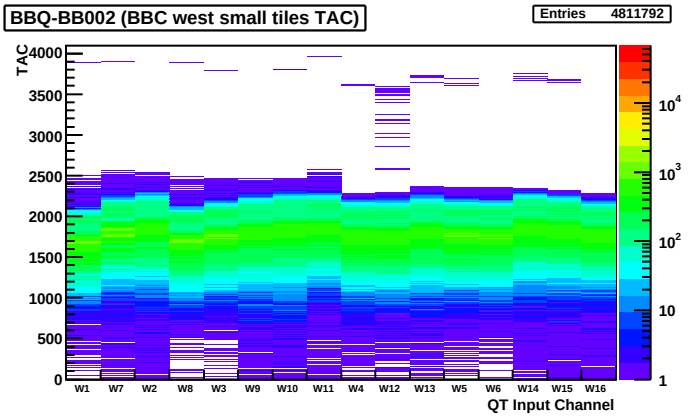

L1-TF201
Entries 300737
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

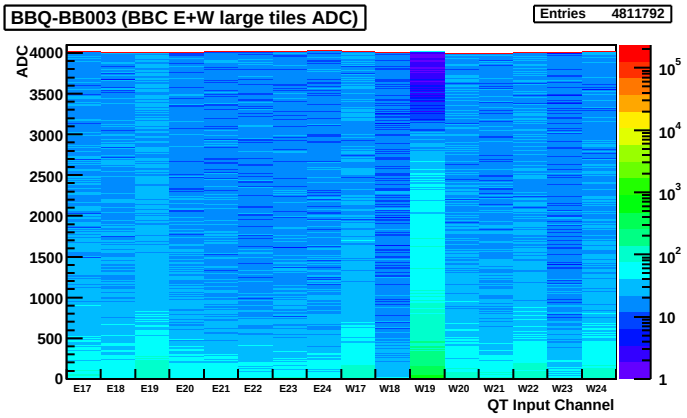

L1-TF201
Entries 1804422
Threshold bits
1
0
289370
288794
288710
289362
288256
288198
11367
11943
12027
11375
12481
12539
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

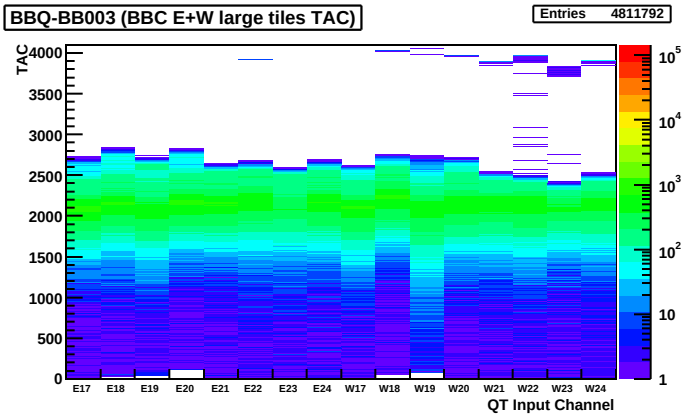

BBQ-BB001 (BBC east small tiles ADC)
Entries 4811792
ADC
QT Input Channel

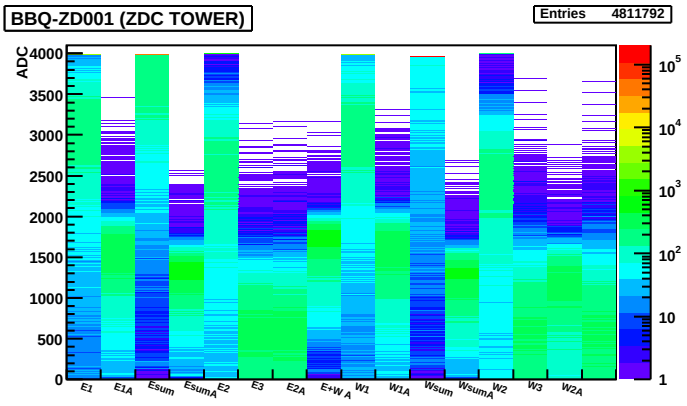

BBQ-BB001 (BBC east small tiles TAC)
Entries 4811792
TAC
QT Input Channel

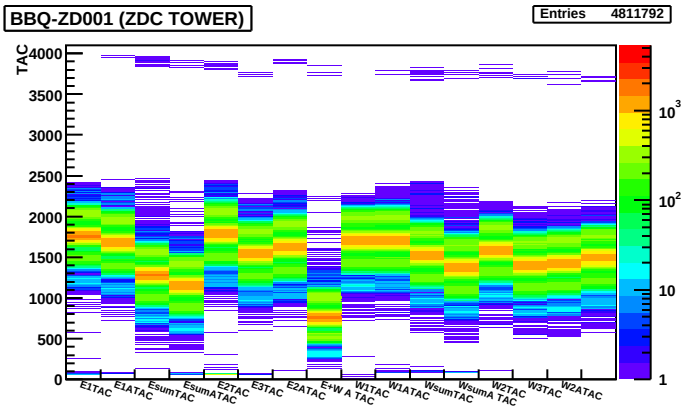

BBQ-BB002 (BBC west small tiles ADC)
Entries 4811792
ADC
QT Input Channel

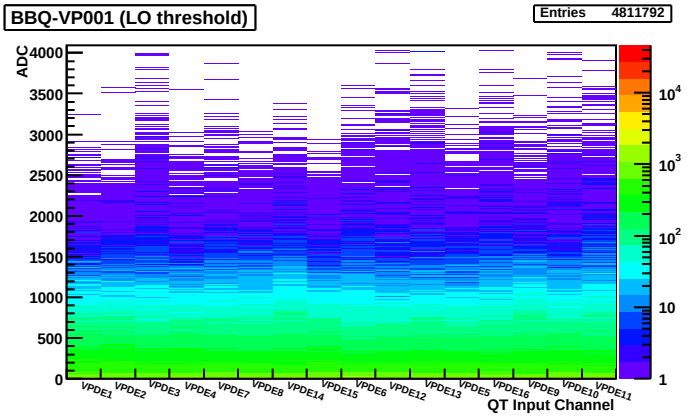

BBQ-BB002 (BBC west small tiles TAC)
Entries 4811792
TAC
QT Input Channel

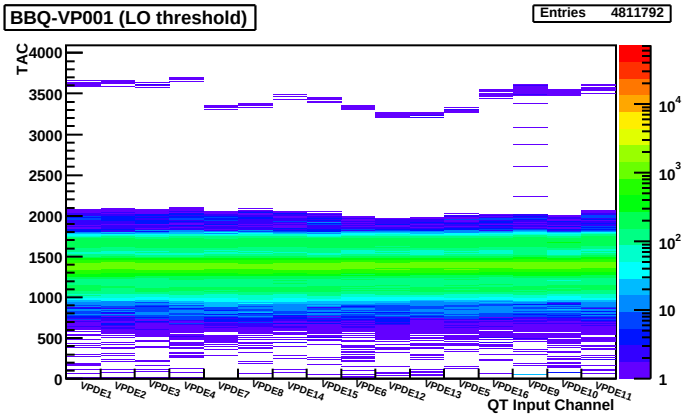

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 4811792
ADC
QT Input Channel

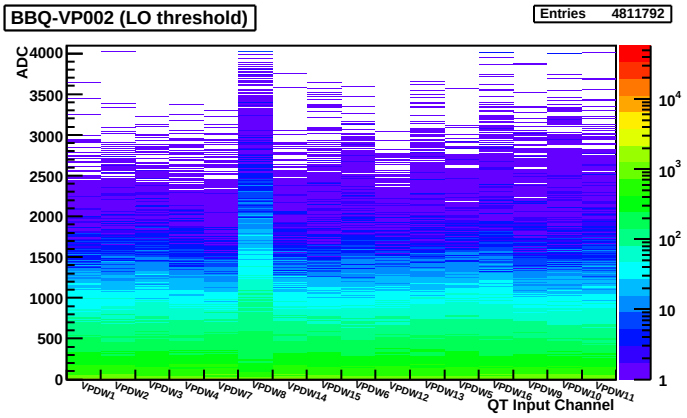

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 4811792
TAC
QT Input Channel

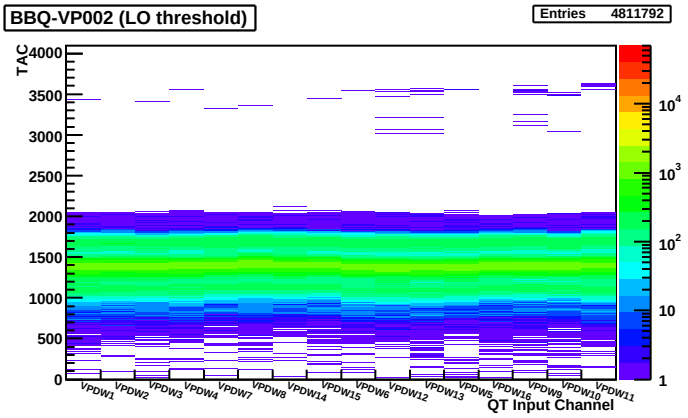

BBQ-ZD001 (ZDC TOWER)
Entries 4811792
ADC

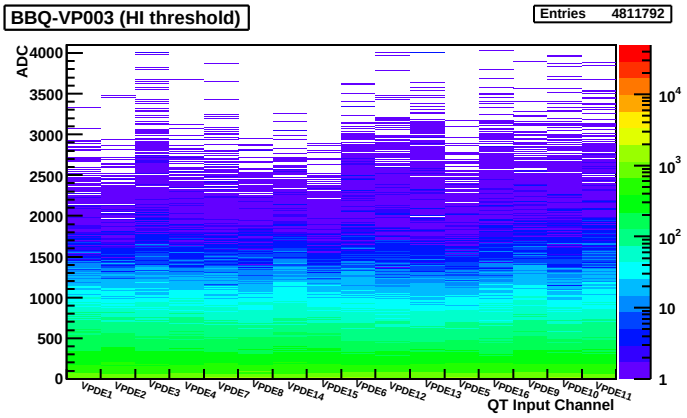

BBQ-ZD001 (ZDC TOWER)
Entries 4811792
TAC

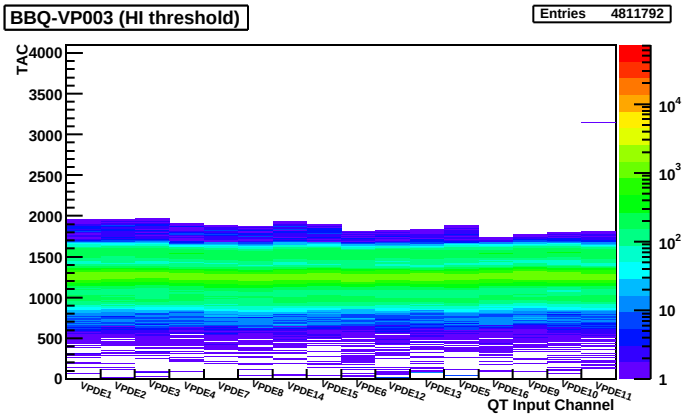

BBQ-VP001 (LO threshold)
Entries 4811792
ADC
QT Input Channel

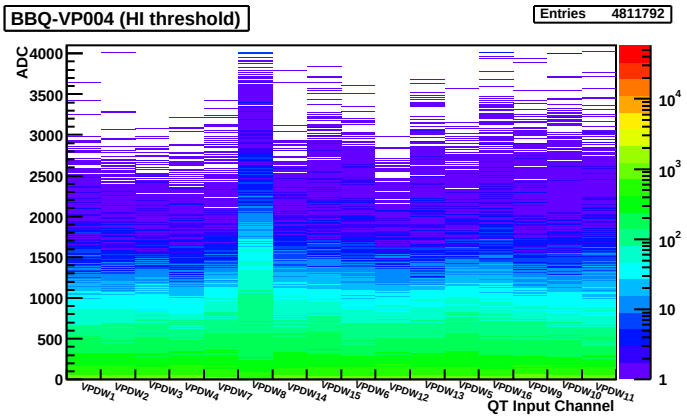

BBQ-VP001 (LO threshold)
Entries 4811792
TAC
QT Input Channel

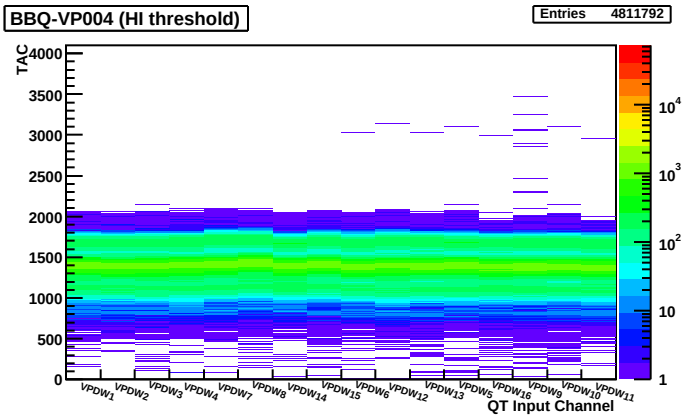

BBQ-VP002 (LO threshold)
Entries 4811792
ADC
QT Input Channel

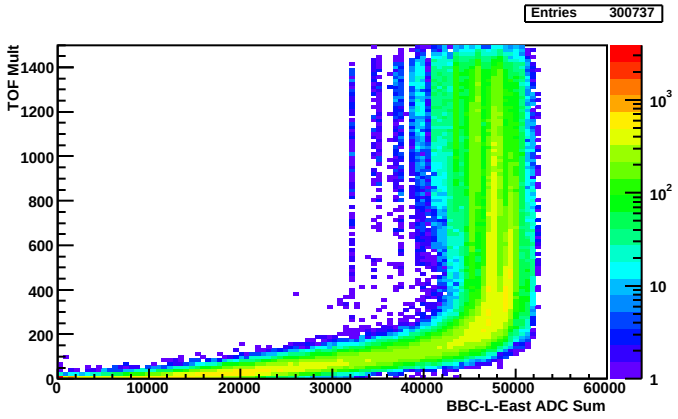

BBQ-VP002 (LO threshold)
Entries 4811792
TAC
QT Input Channel

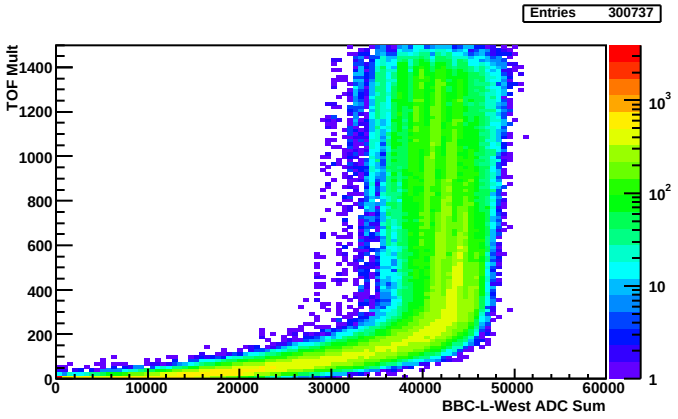

BBQ-VP003 (HI threshold)
Entries 4811792
ADC
QT Input Channel

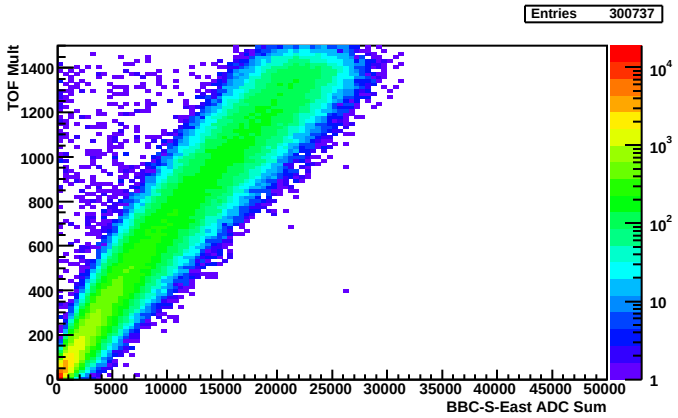

BBQ-VP003 (HI threshold)
Entries 4811792
TAC
QT Input Channel

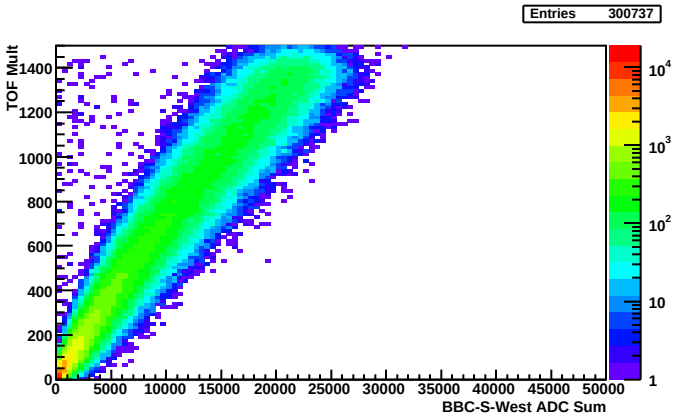

BBQ-VP004 (HI threshold)
Entries 4811792
ADC
QT Input Channel

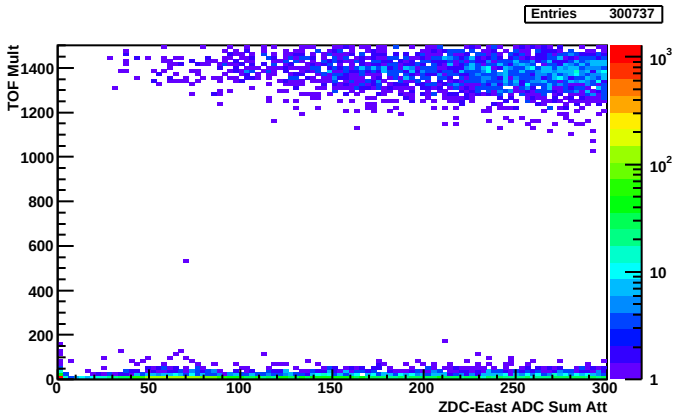

BBQ-VP004 (HI threshold)
Entries 4811792
TAC
QT Input Channel

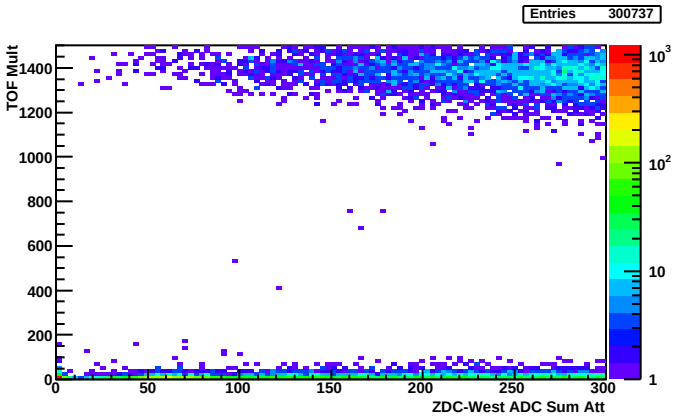

Entries 300737
TOF Mult
BBC-L-East ADC Sum

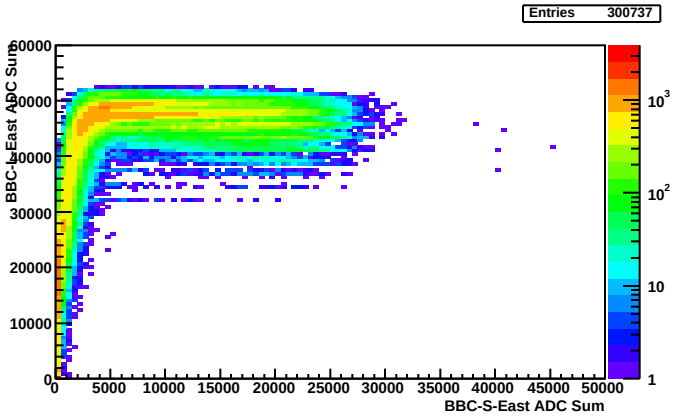

Entries 300737
TOF Mult
BBC-L-West ADC Sum

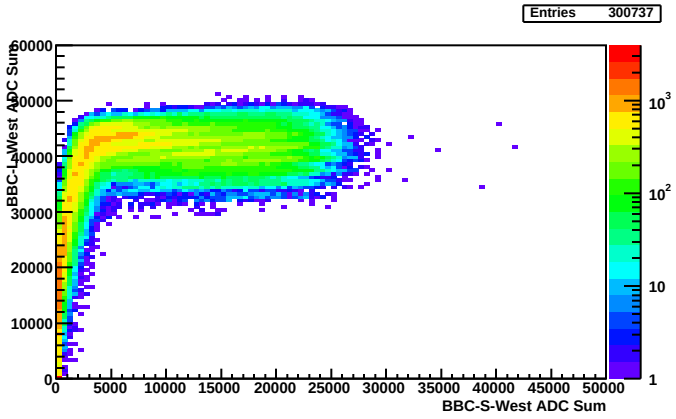

Entries 300737
TOF Mult
BBC-S-East ADC Sum

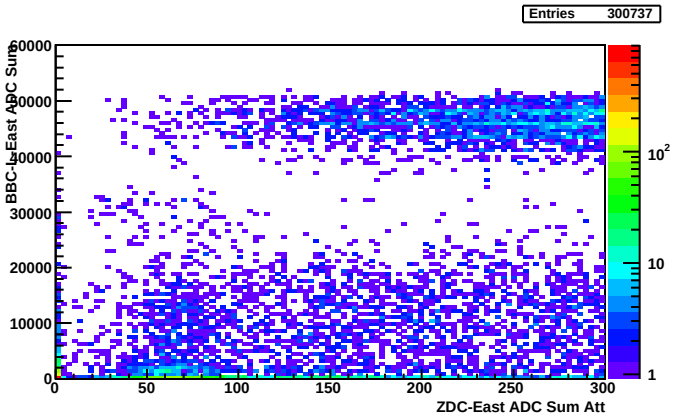

Entries 300737
TOF Mult
BBC-S-West ADC Sum

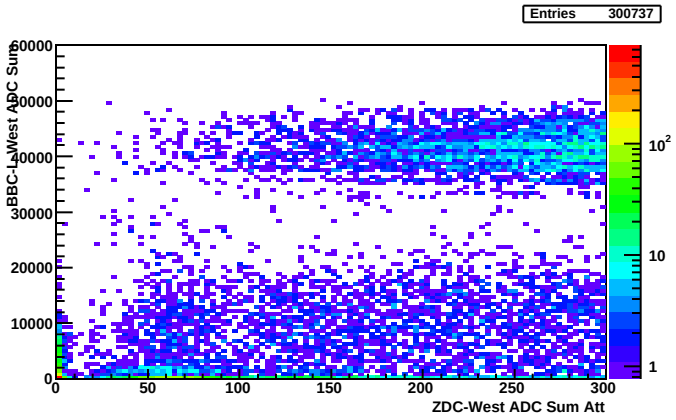

Entries 300737
TOF Mult
ZDC-East ADC Sum Att


Entries 300737
TOF Mult
ZDC-West ADC Sum Att


Entries 300737
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 300737
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 300737
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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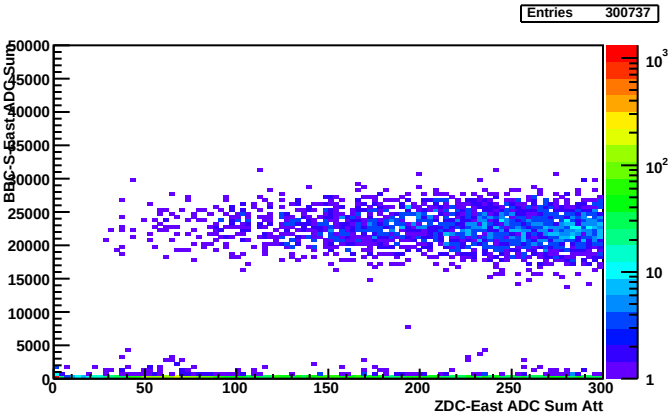
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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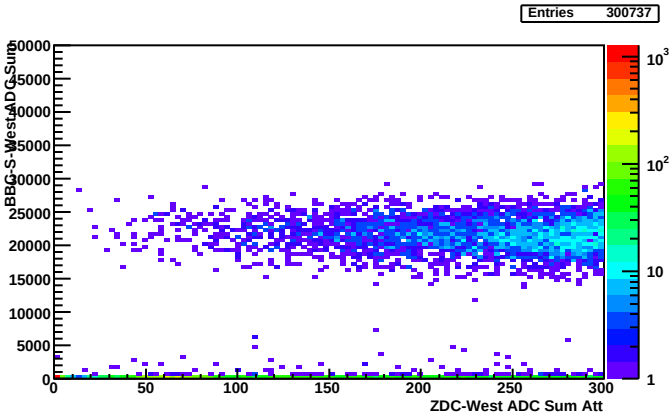
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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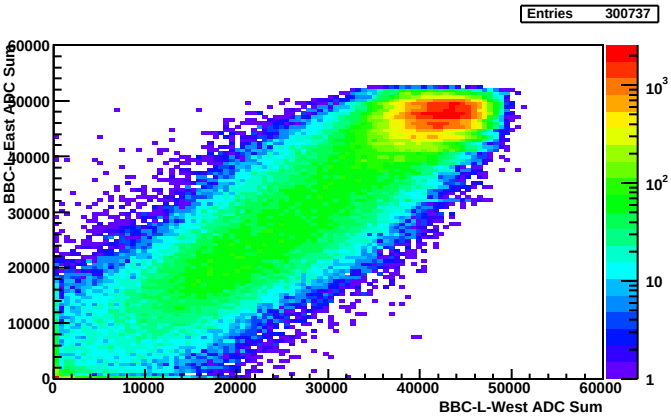
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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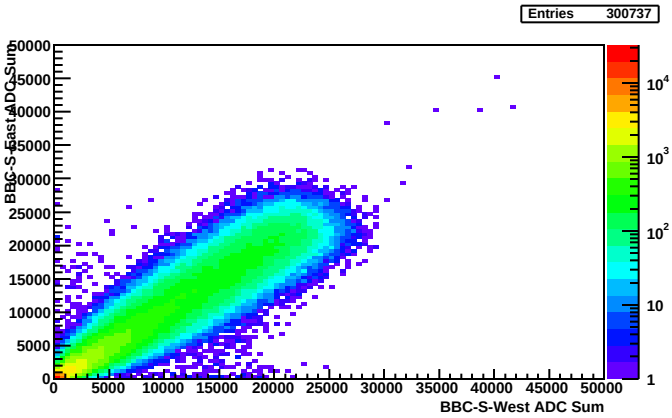
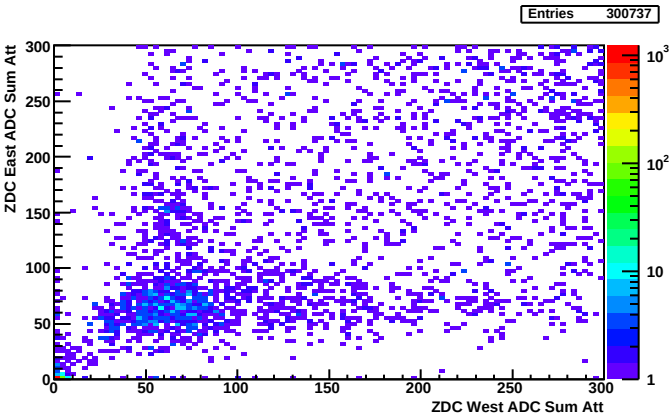
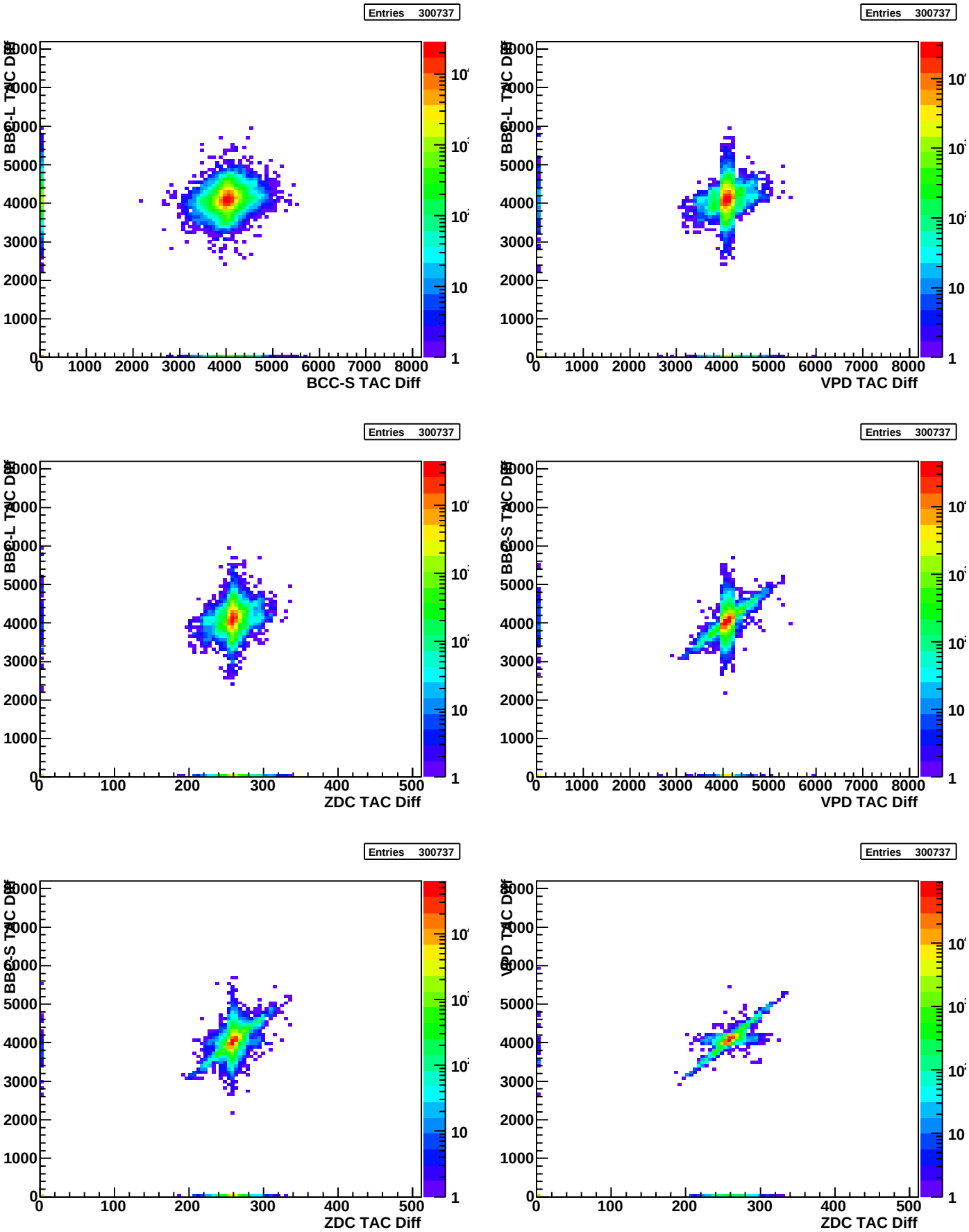
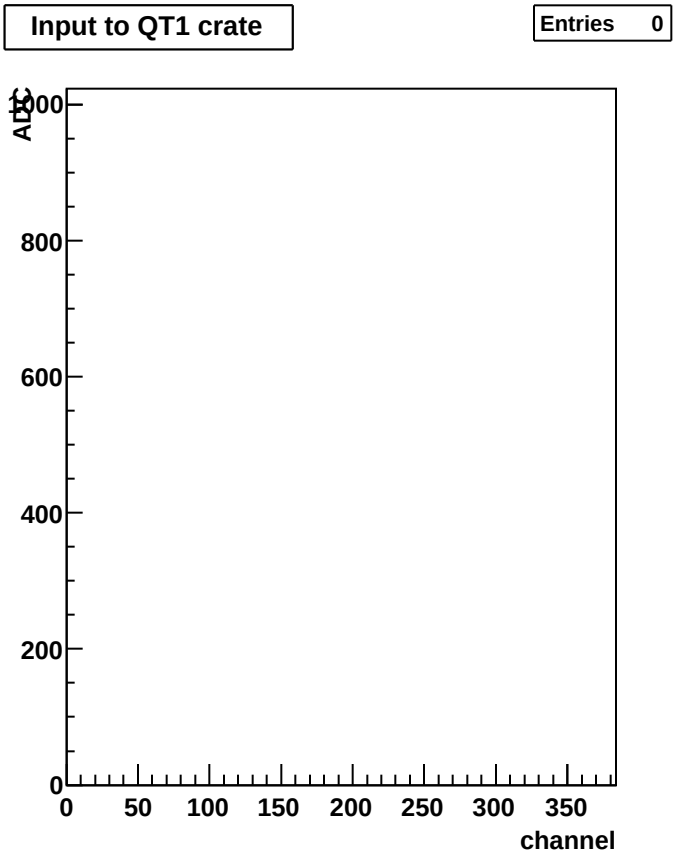
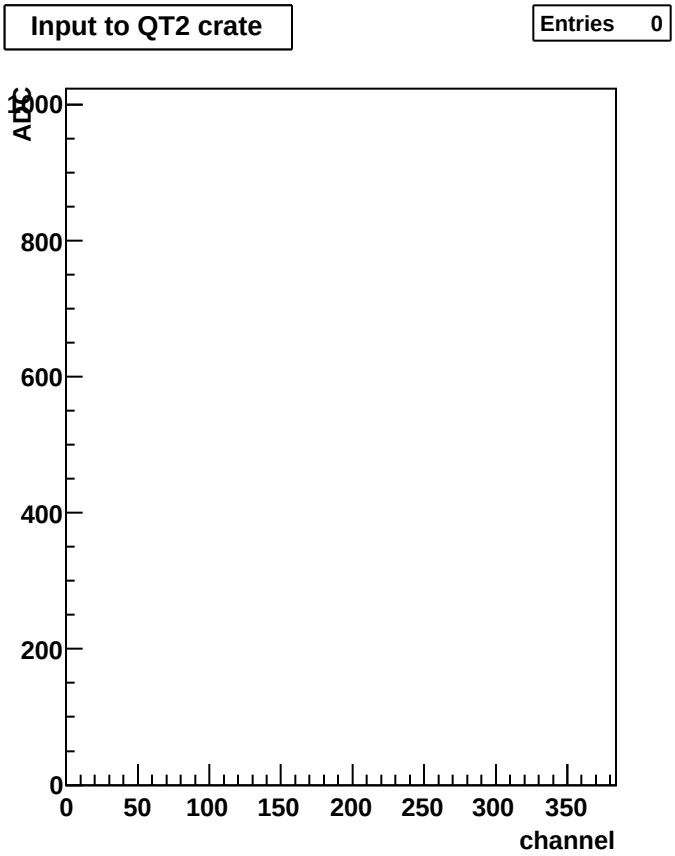
BBC-L-East ADC Sum
BBC-L-West ADC Sum

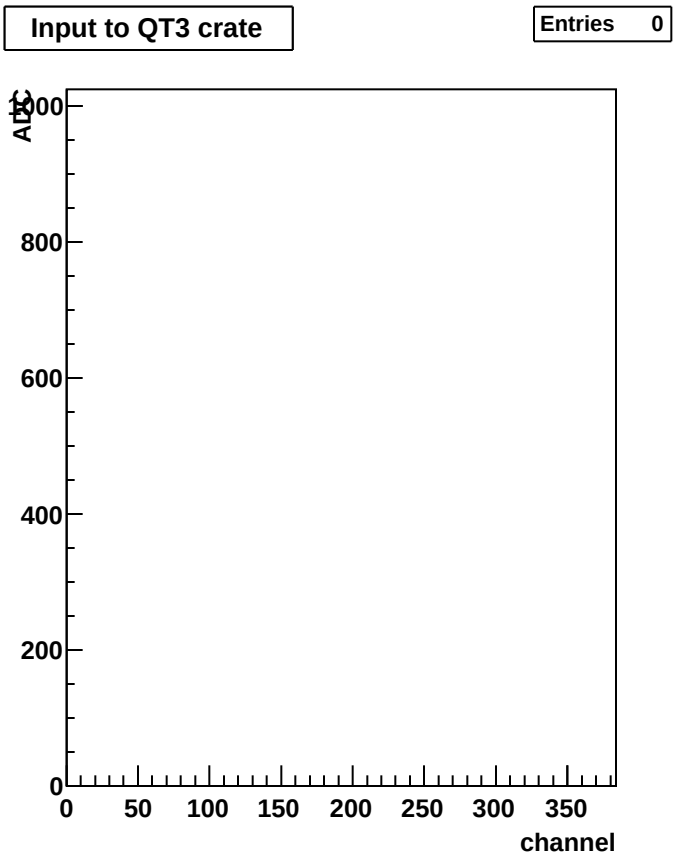

Entries 300737
BBC-S-East ADC Sum
BBC-S-West ADC Sum

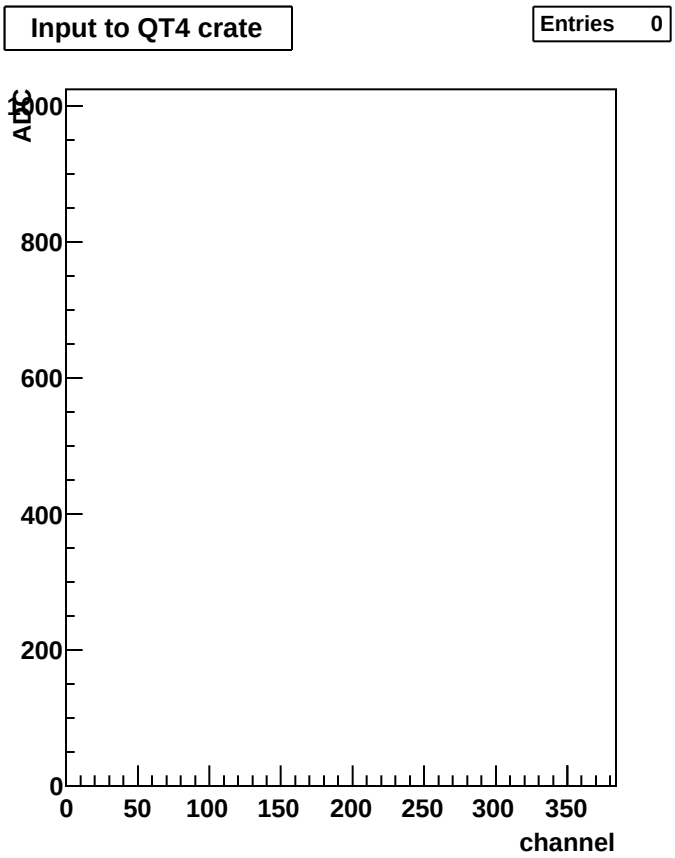

Entries 300737
ZDC East ADC Sum Att
ZDC West ADC Sum Att

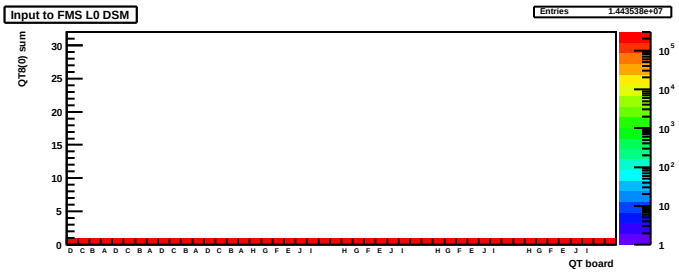

Entries 300737
BBC-L TAC Diff
BCC-S TAC Diff
Entries 300737
BBC-L TAC Diff
VPD TAC Diff
Entries 300737
BBC-L TAC Diff
ZDC TAC Diff
Entries 300737
BBC-S TAC Diff
VPD TAC Diff
Entries 300737
BBC-S TAC Diff
ZDC TAC Diff
Entries 300737
VPD TAC Diff
ZDC TAC Diff

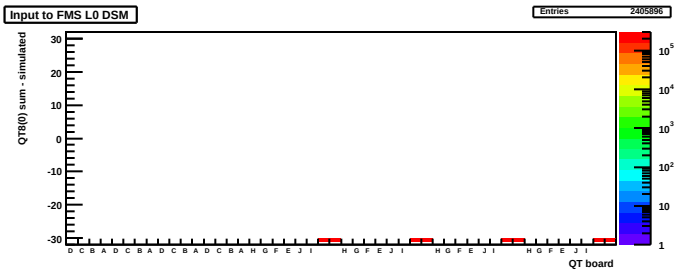

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

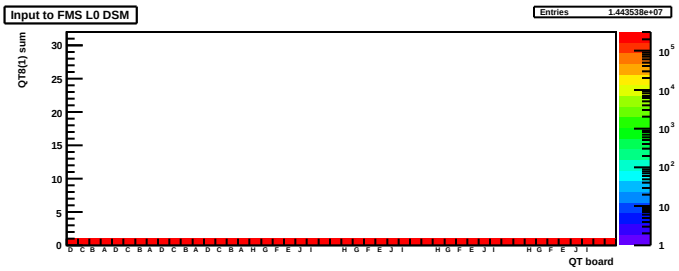

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

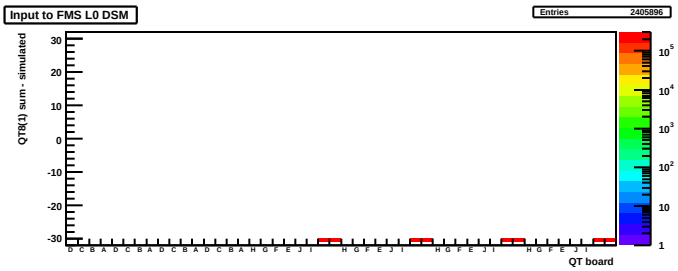

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

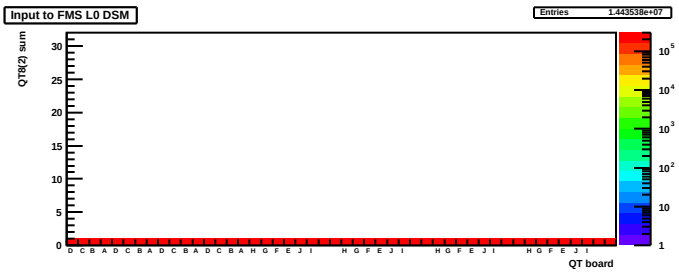

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

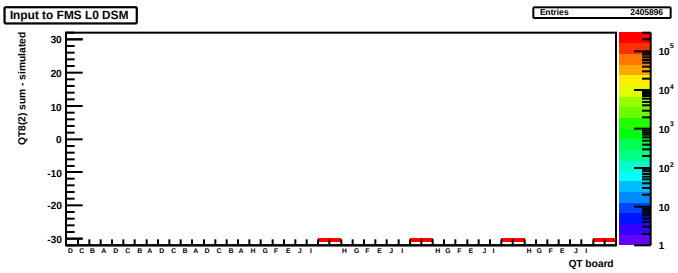

Input to FMS L0 DSM
Entries 1.443538e+07
QT8(0) sum
QT board

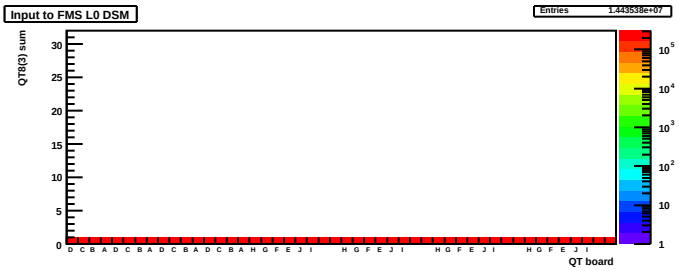

Input to FMS L0 DSM
Entries 2405896
QT8(0) sum - simulated
QT board

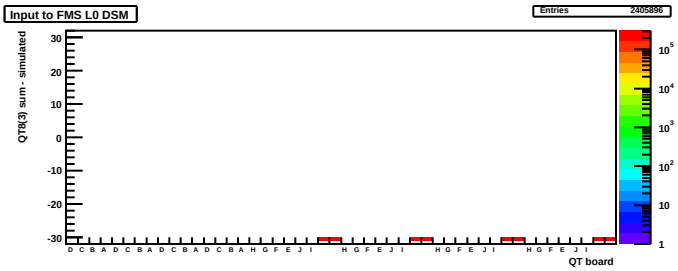

Input to FMS L0 DSM
Entries 1.443538e+07
QT8(1) sum
QT board

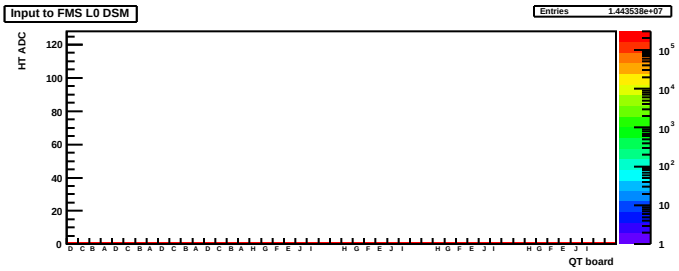

Input to FMS L0 DSM
Entries 2405896
QT8(1) sum - simulated
QT board

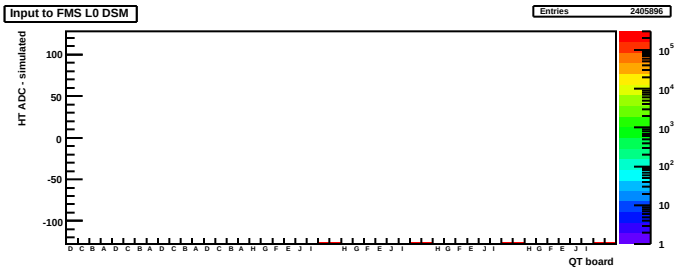

Input to FMS L0 DSM
Entries 1.443538e+07
QT8(2) sum
QT board

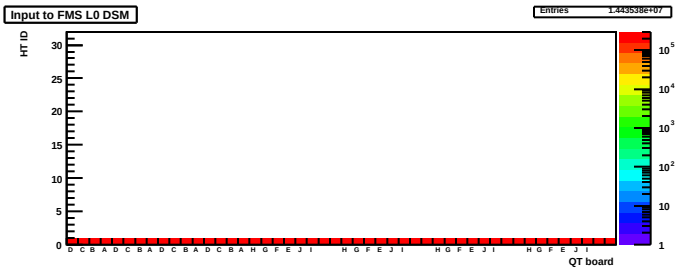

Input to FMS L0 DSM
Entries 2405896
QT8(2) sum - simulated
QT board

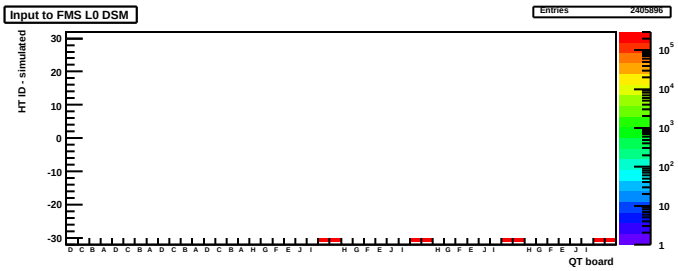

Input to FMS L0 DSM
Entries 1.443538e+07
QT8(3) sum
QT board

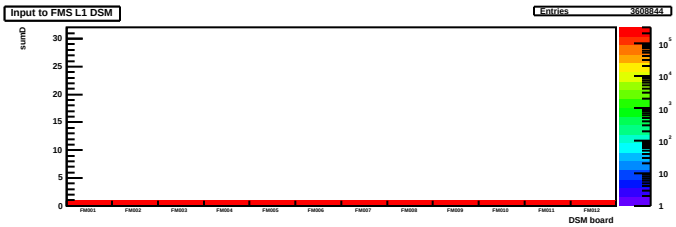

Input to FMS L0 DSM
Entries 2405896
QT8(3) sum - simulated
QT board

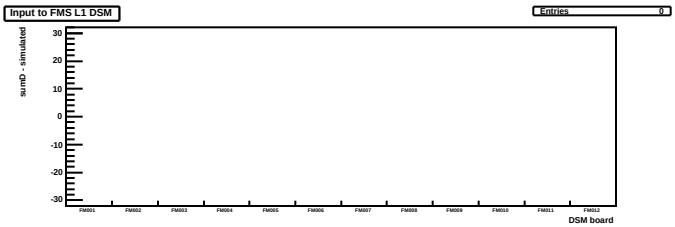

Input to FMS L0 DSM
Entries 1.443538e+07
HT ADC
QT board

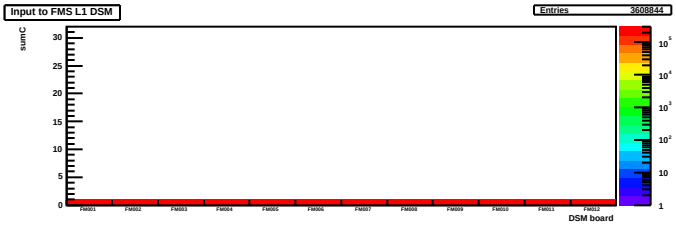

Input to FMS L0 DSM
Entries 2405896
HT ADC - simulated
QT board

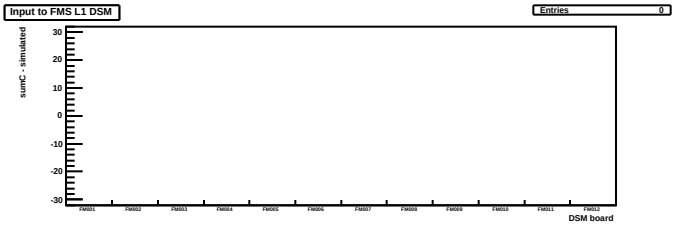

Input to FMS L0 DSM
Entries 1.443538e+07
HT ID
QT board

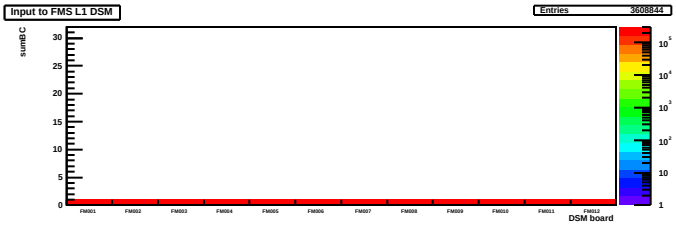

Input to FMS L0 DSM
Entries 2405896
HT ID - simulated
QT board

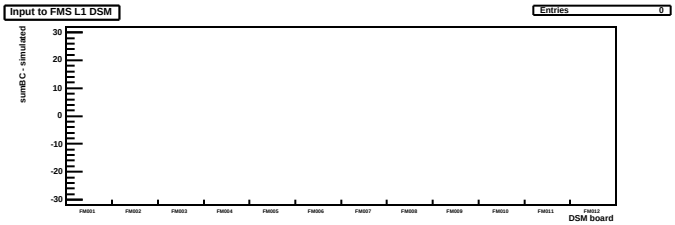

Input to FMS L1 DSM
Entries 3608844
sumD
DSM board

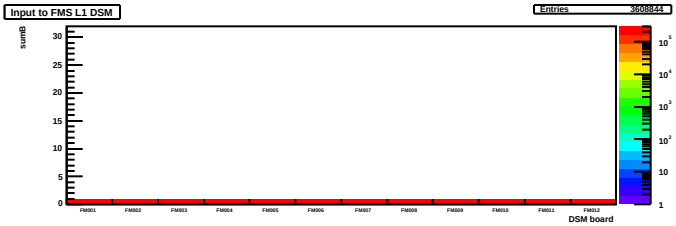

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

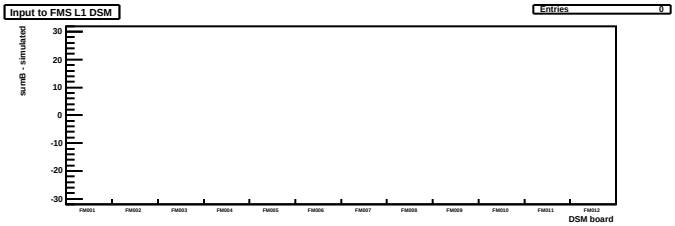

Input to FMS L1 DSM
Entries 3608844
sumC
DSM board

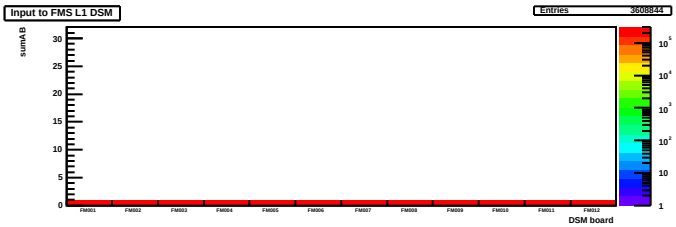

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

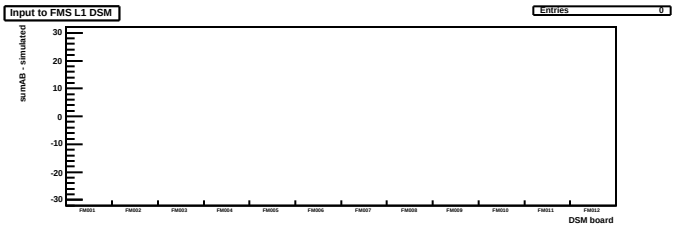

Input to FMS L1 DSM
Entries 3608844
sumBC
DSM board

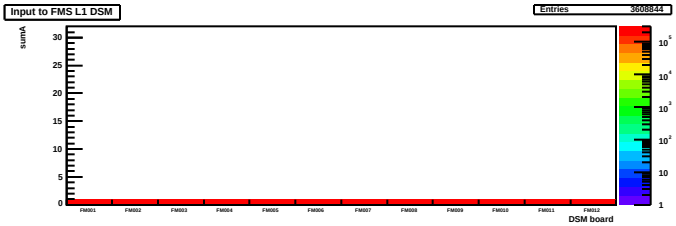

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

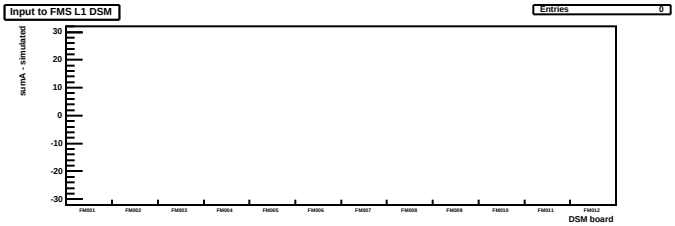

Input to FMS L1 DSM
Entries 3608844
sumB
DSM board

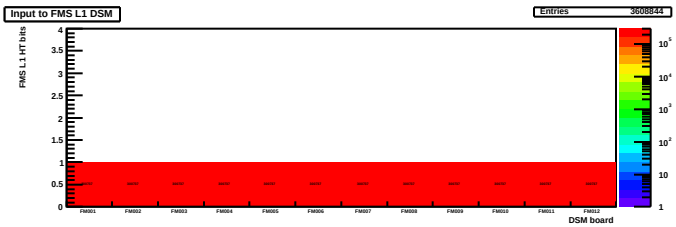

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

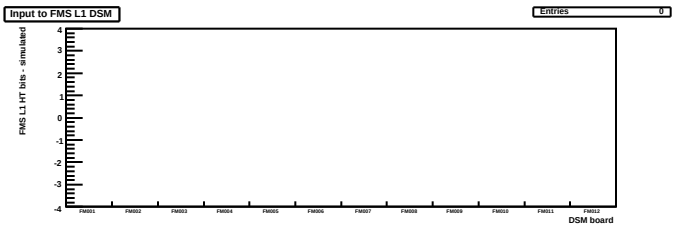

Input to FMS L1 DSM
Entries 3608844
sumAB
DSM board

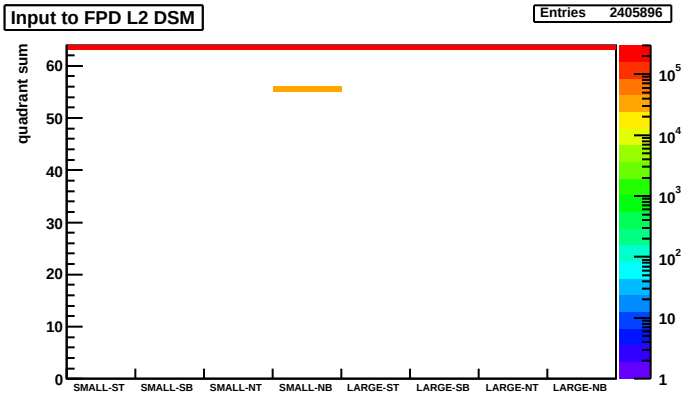

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

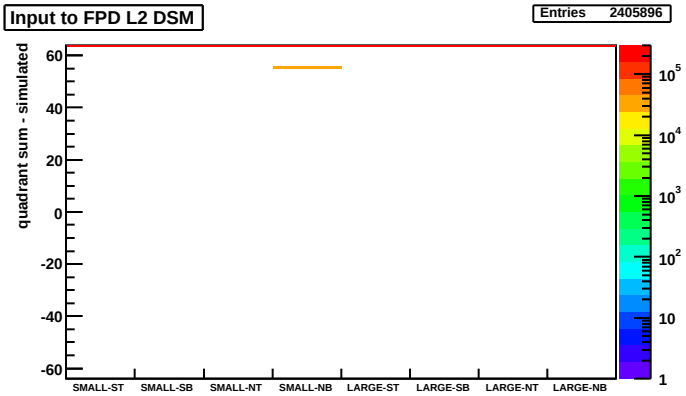

Input to FMS L1 DSM
Entries 3608844
sumA
DSM board

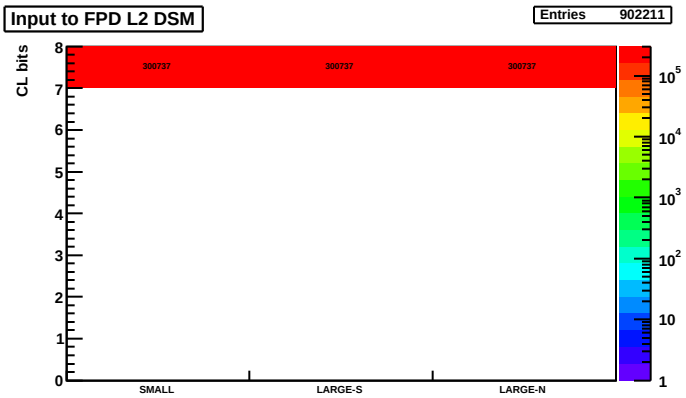

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

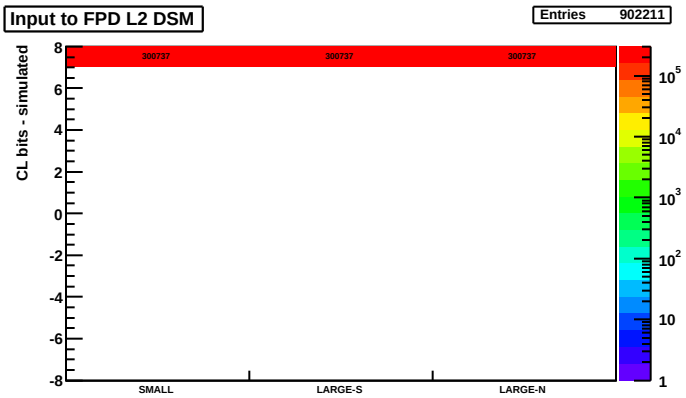

Input to FMS L1 DSM
Entries 3608844
FMS L1 HT bits
DSM board

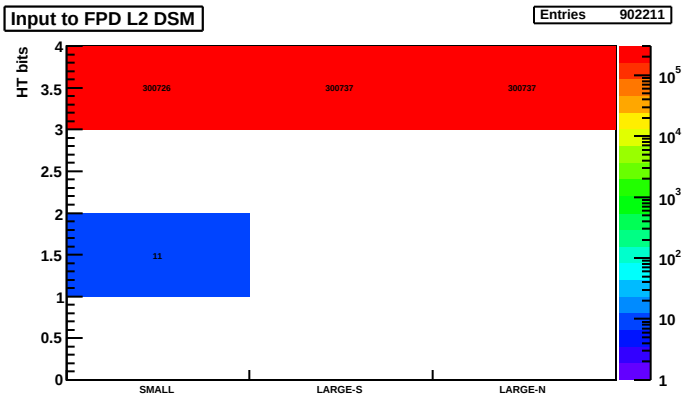

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

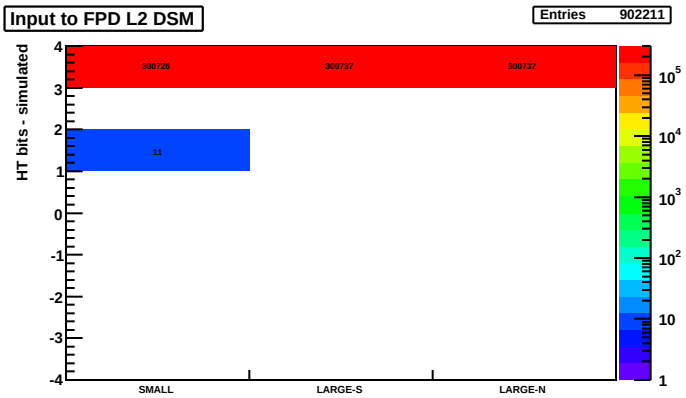

Input to FPD L2 DSM
Entries 2405896
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

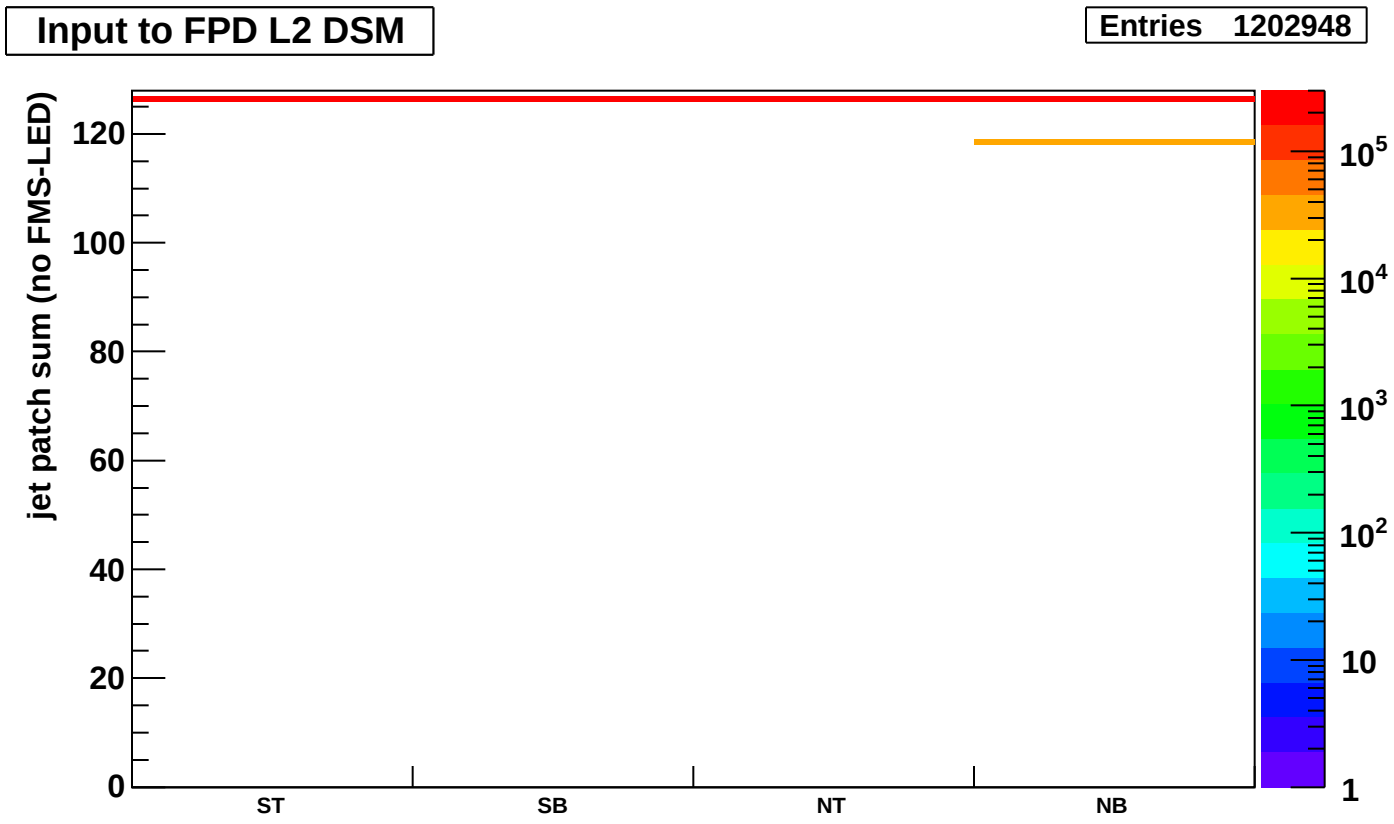

Input to FPD L2 DSM
Entries 2405896
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

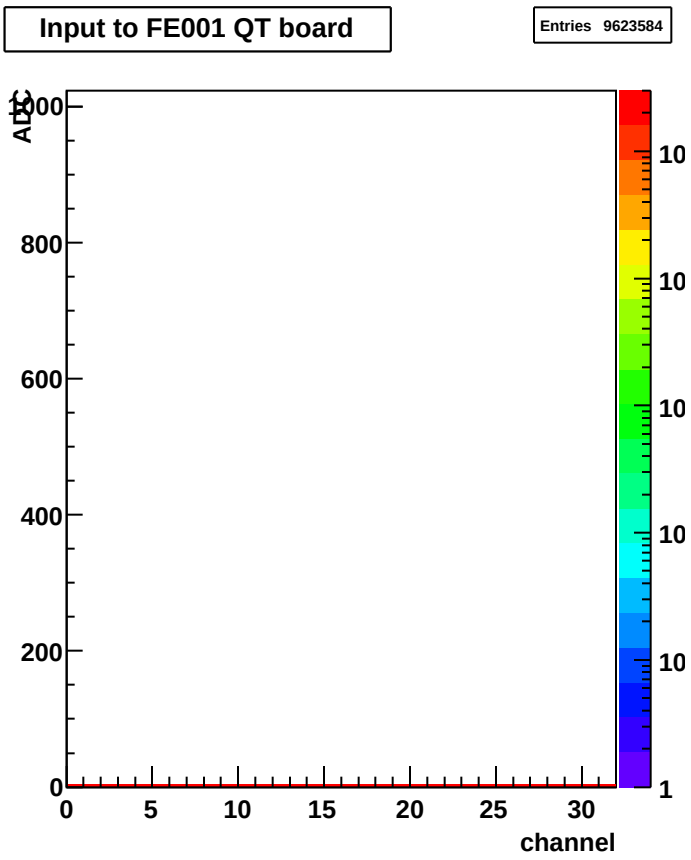

Input to FPD L2 DSM
Entries 902211
CL bits
300737
300737
300737
SMALL
LARGE-S
LARGE-N

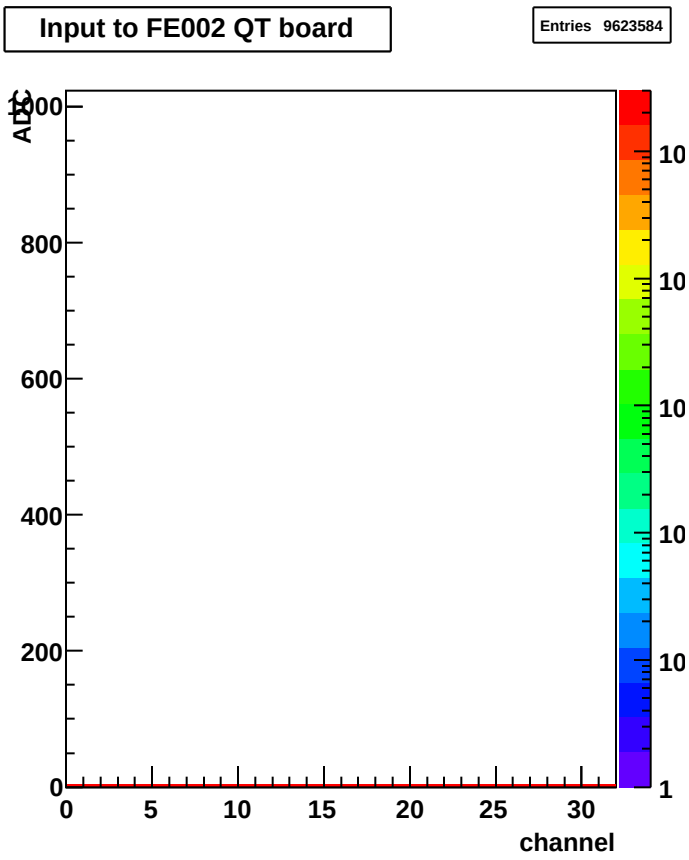

Input to FPD L2 DSM
Entries 902211
CL bits - simulated
300737
300737
300737
SMALL
LARGE-S
LARGE-N

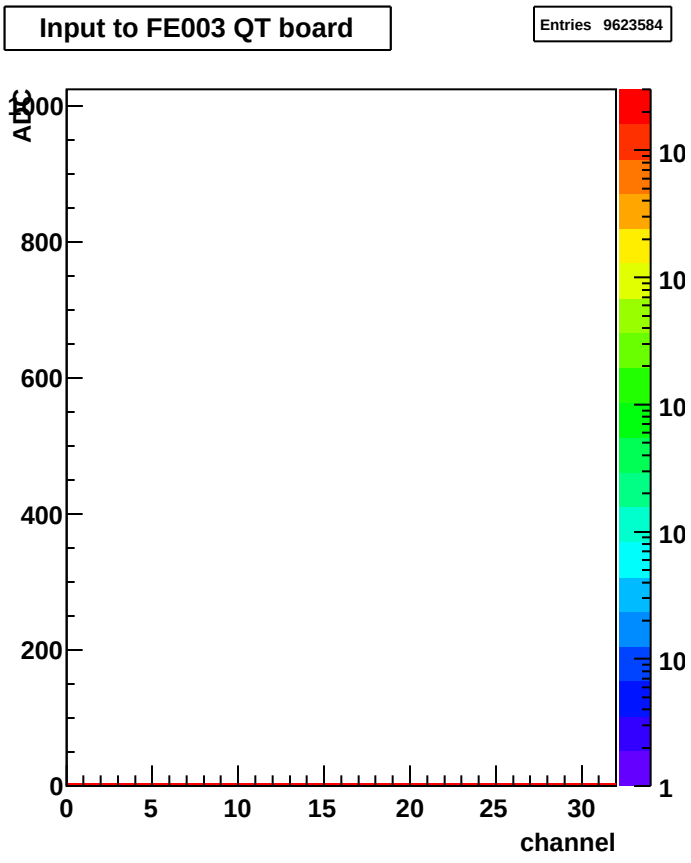

Input to FPD L2 DSM
Entries 902211
HT bits
300726
300737
300737
11
SMALL
LARGE-S
LARGE-N

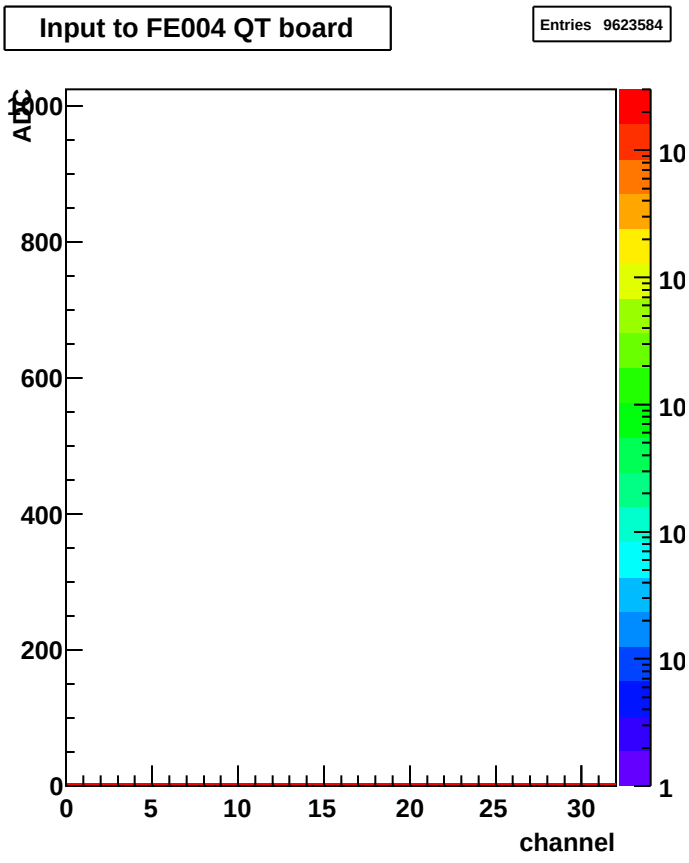

Input to FPD L2 DSM
Entries 902211
HT bits - simulated
300726
300737
300737
11
SMALL
LARGE-S
LARGE-N

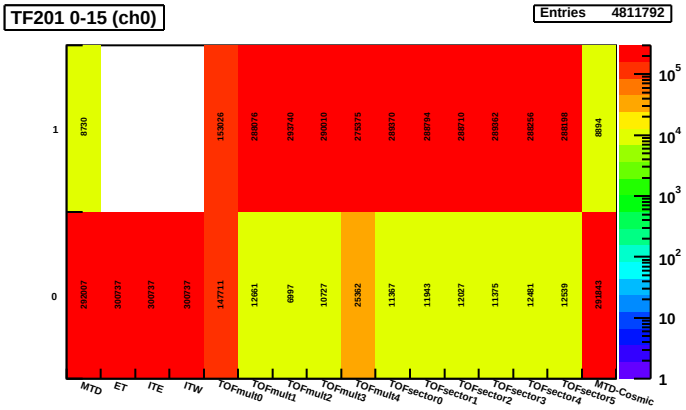

Input to FPD L2 DSM
Entries 1202948
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

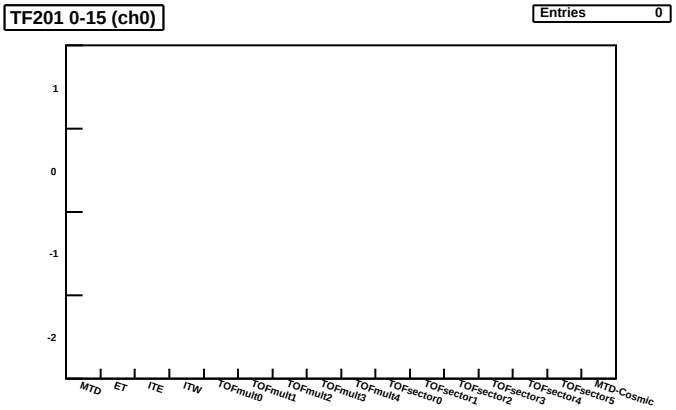

Input to FE001 QT board
Entries 9623584
ADC
channel

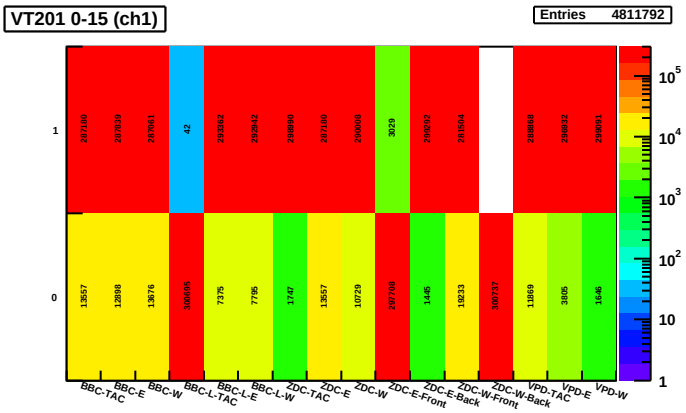

Input to FE002 QT board
Entries 9623584
ADC
channel

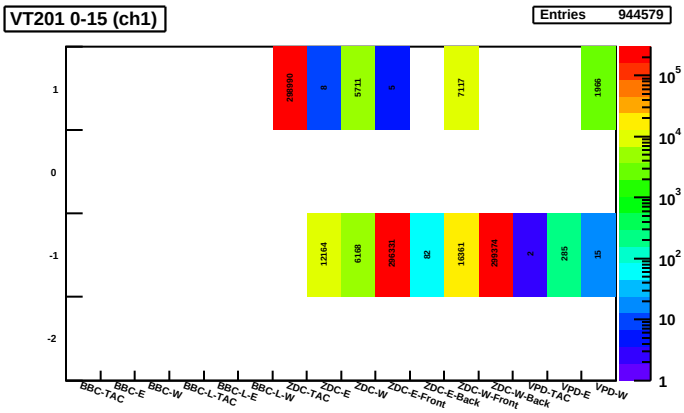

Input to FE003 QT board
Entries 9623584
ADC
channel

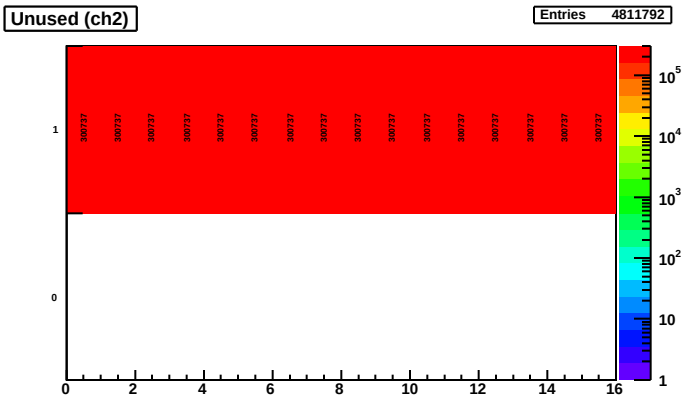

Input to FE004 QT board
Entries 9623584
ADC
channel

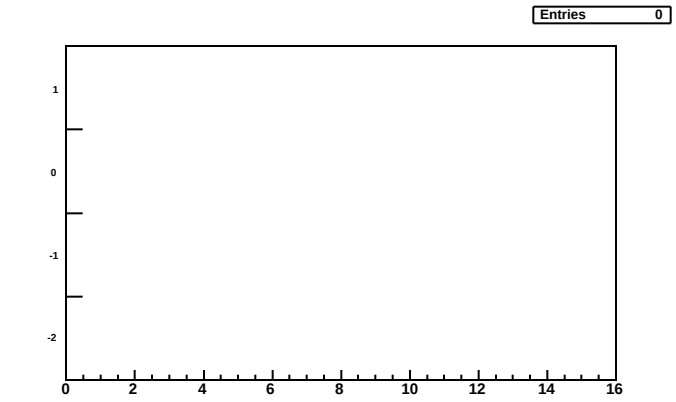

TF201 0-15 (ch0)
Entries 4811792
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

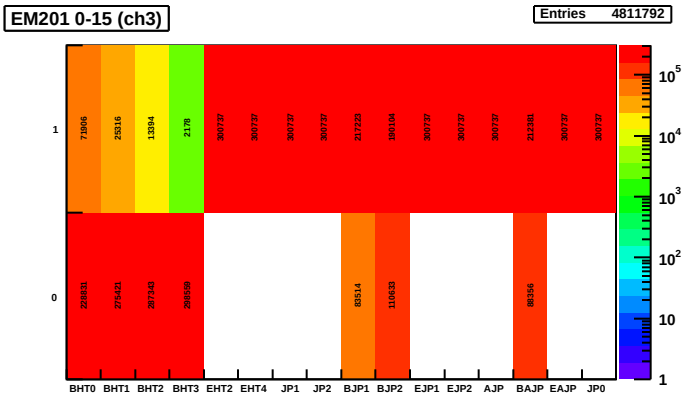

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

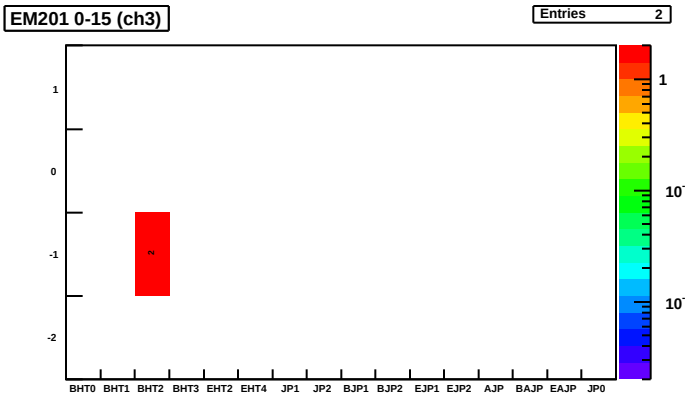

VT201 0-15 (ch1)
Entries 4811792
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 944579
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

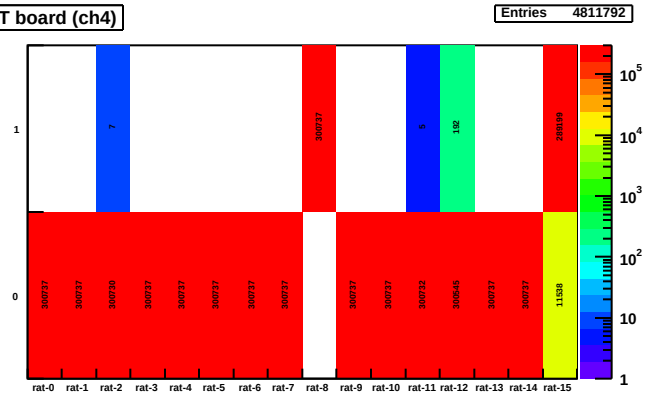

Unused (ch2)
Entries 4811792

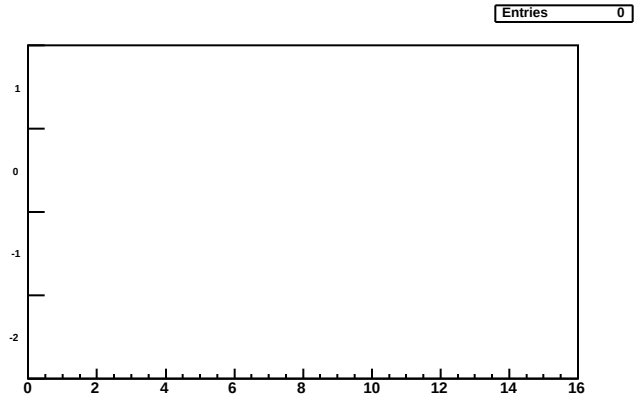

Entries 0


EM201 0-15 (ch3)
Entries 4811792
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

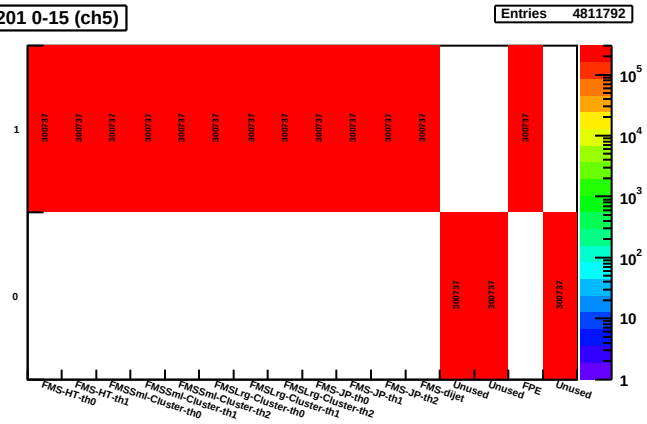

EM201 0-15 (ch3)
Entries 2
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

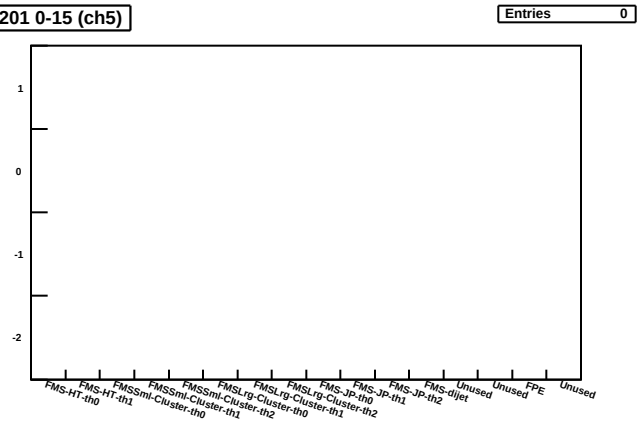




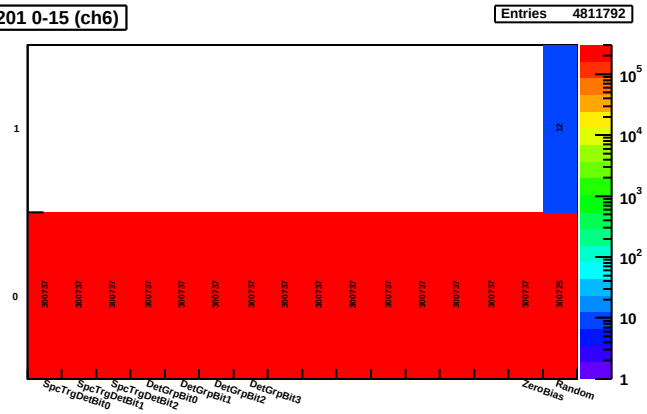
FP201 0-15 (ch5)

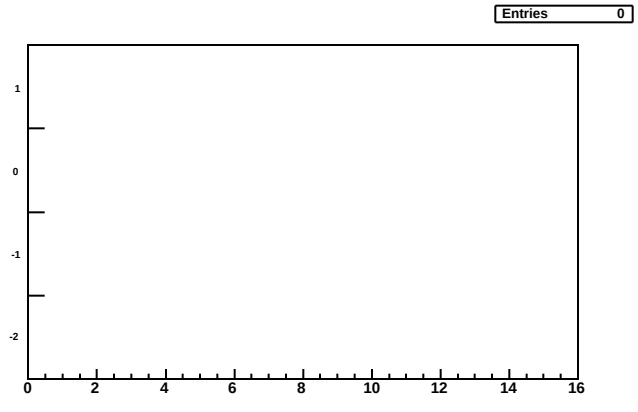
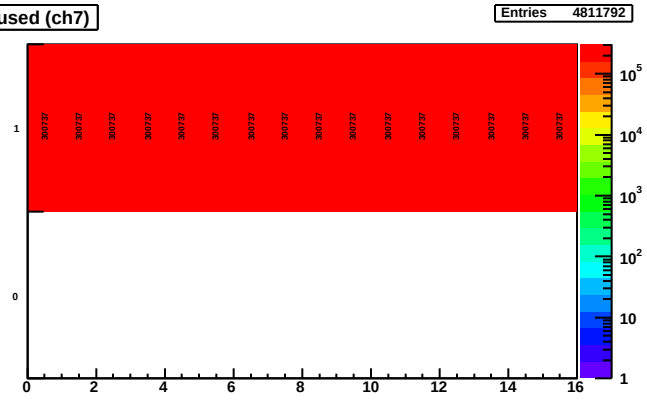
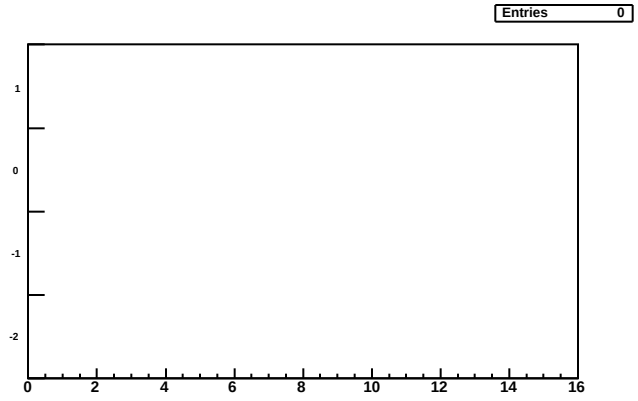


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)