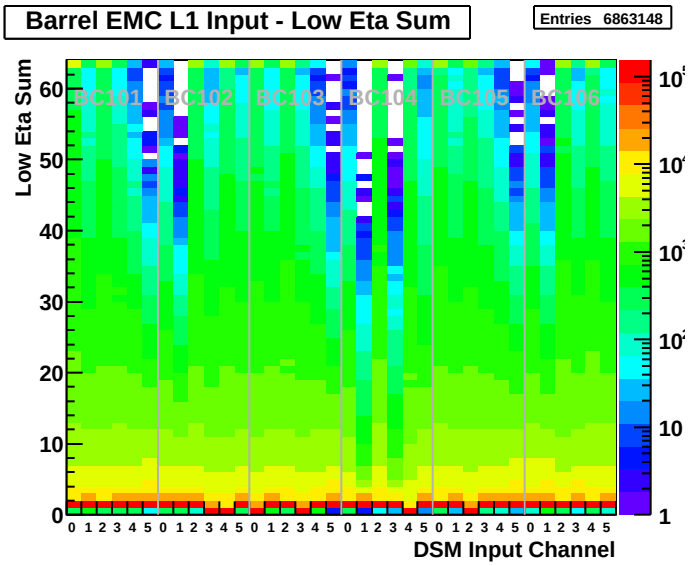
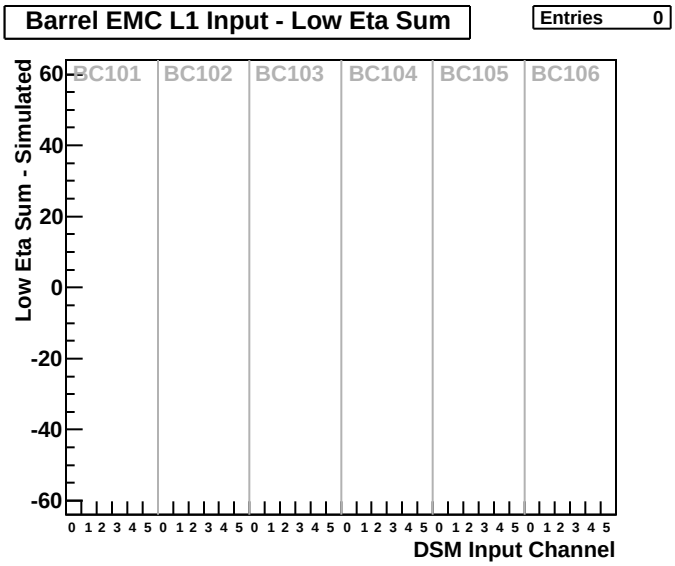
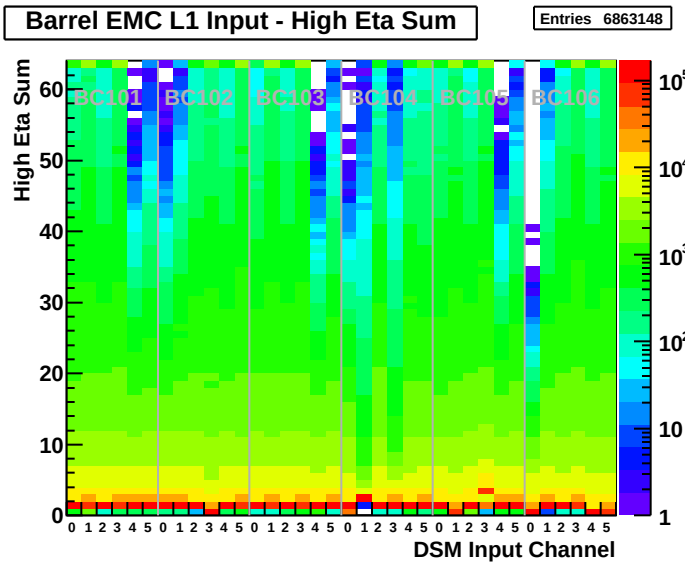
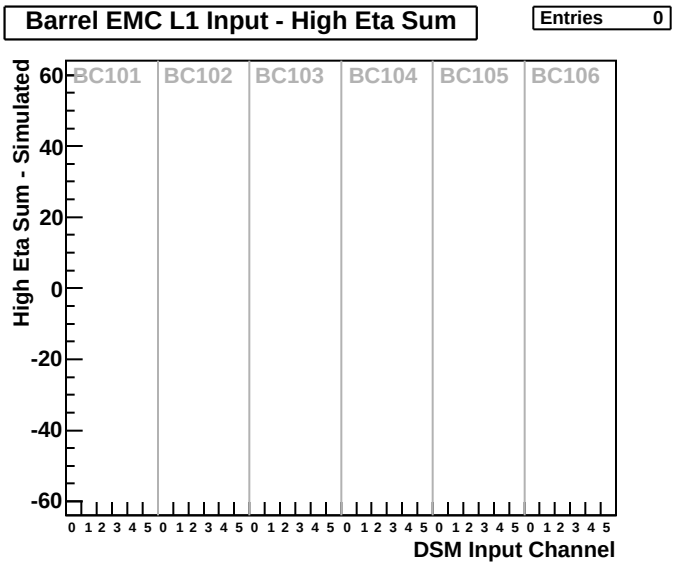
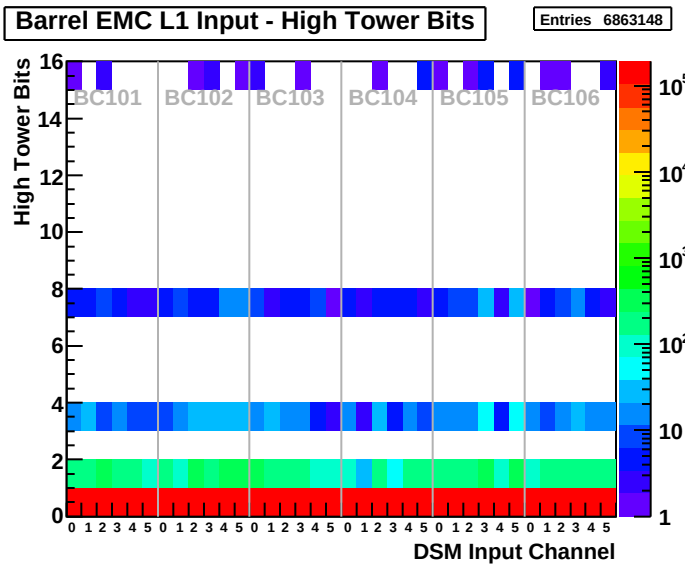
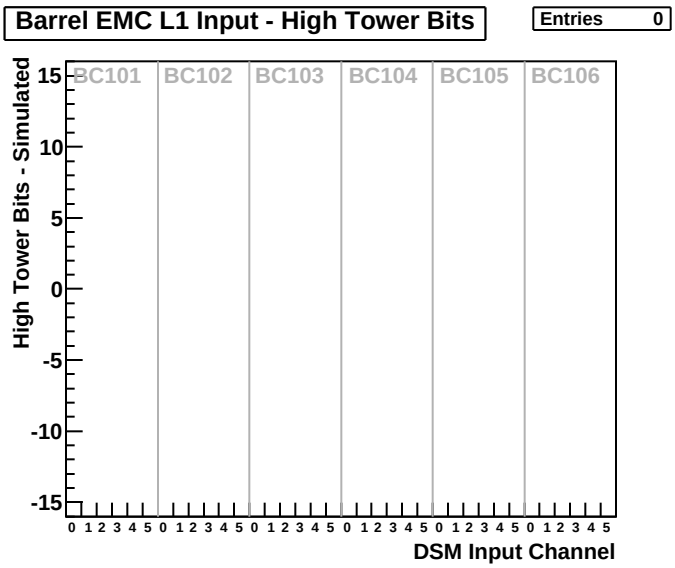

Barrel EMC L1 Input - Low Eta Sum
Entries 6863148
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

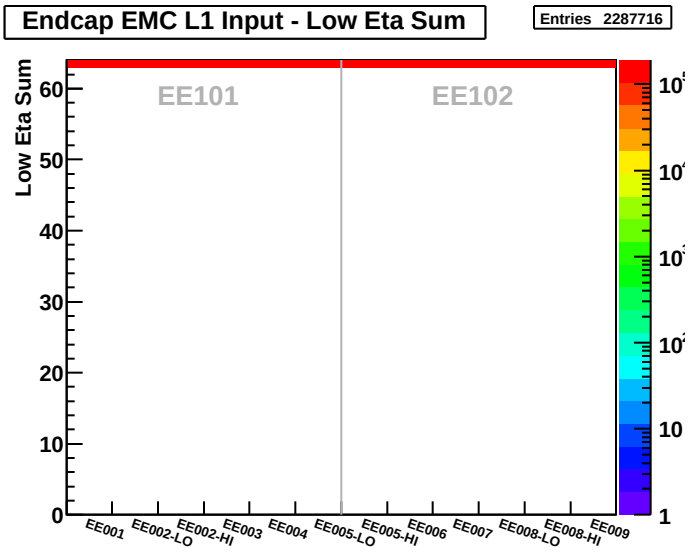

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

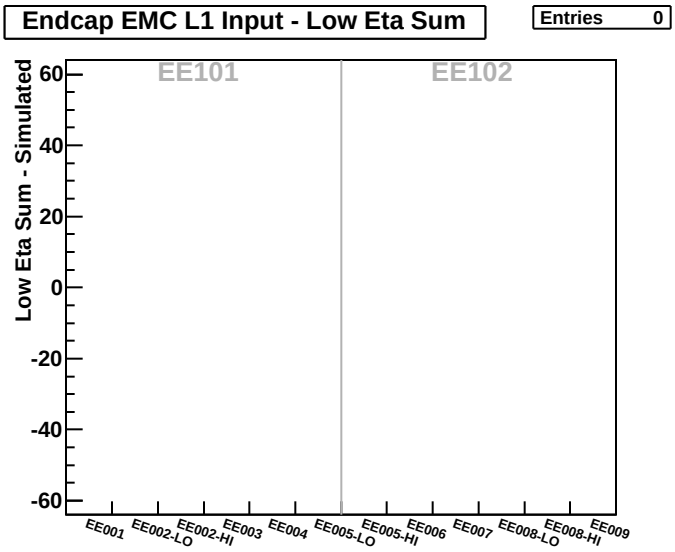

Barrel EMC L1 Input - High Eta Sum
Entries 6863148
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

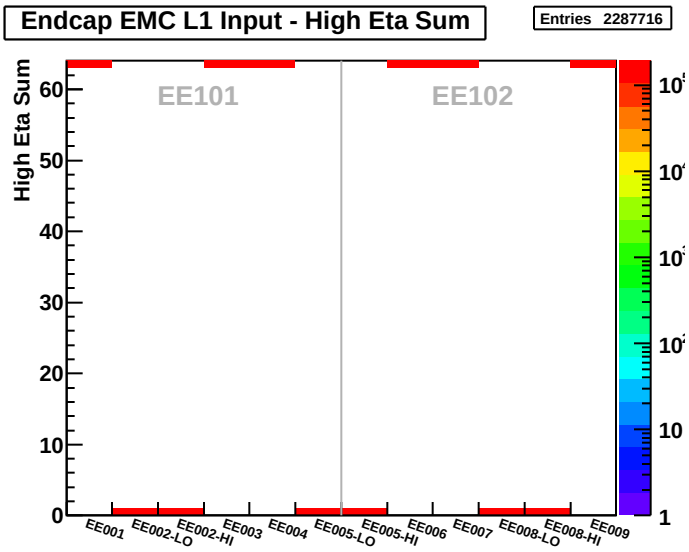

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

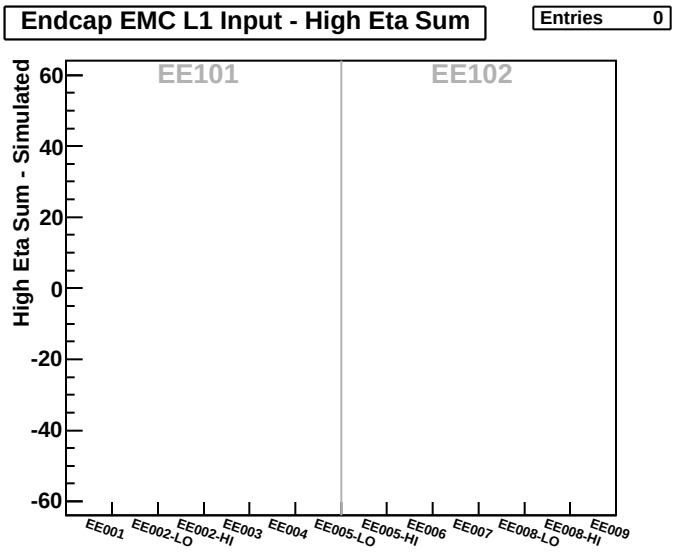

Barrel EMC L1 Input - High Tower Bits
Entries 6863148
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

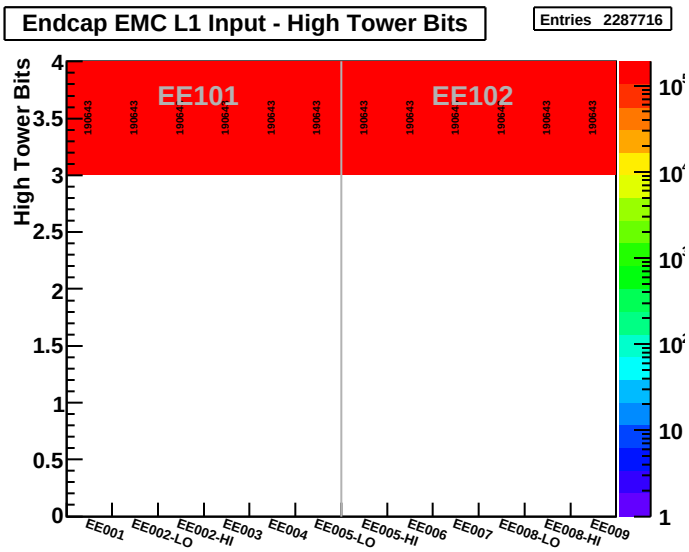

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

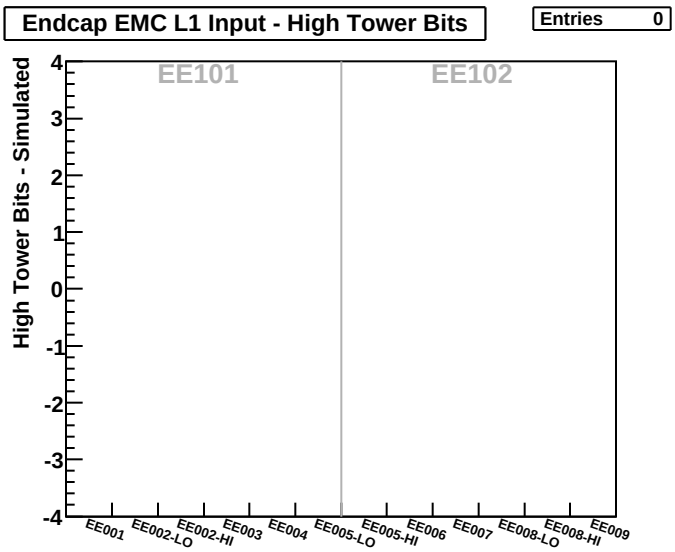

Endcap EMC L1 Input - Low Eta Sum
Entries 2287716
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

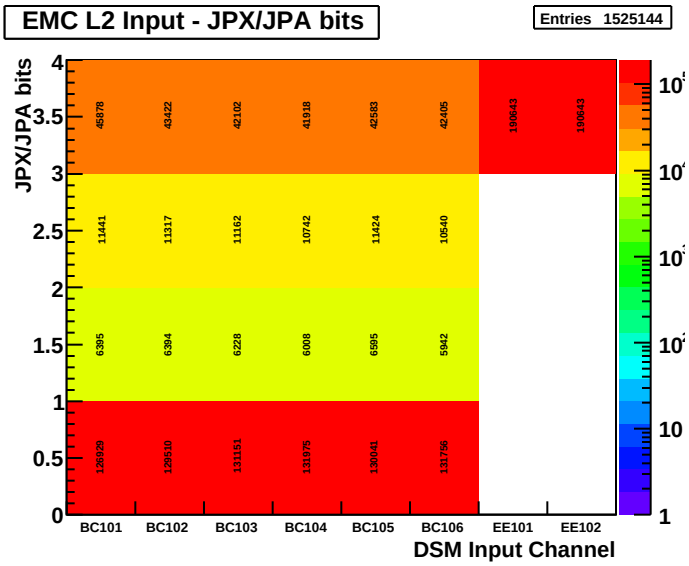

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

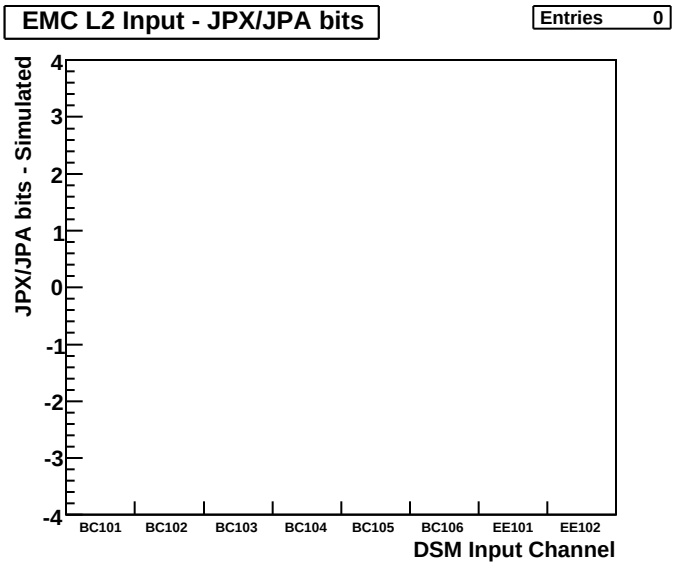

Endcap EMC L1 Input - High Eta Sum
Entries 2287716
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

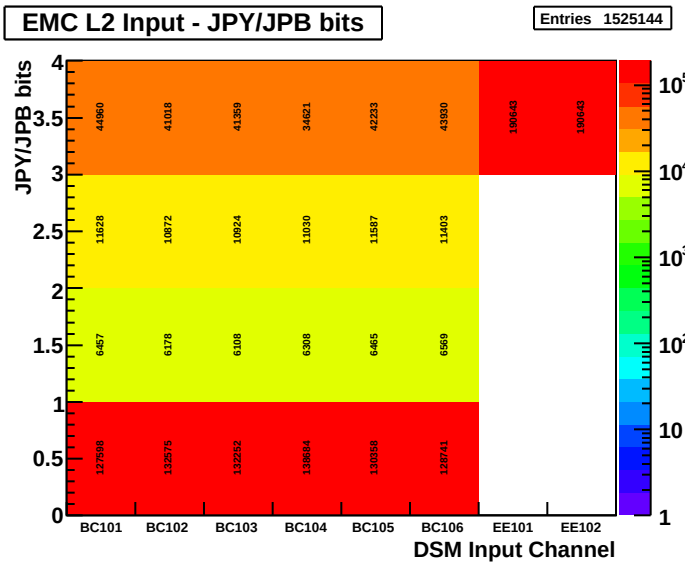

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

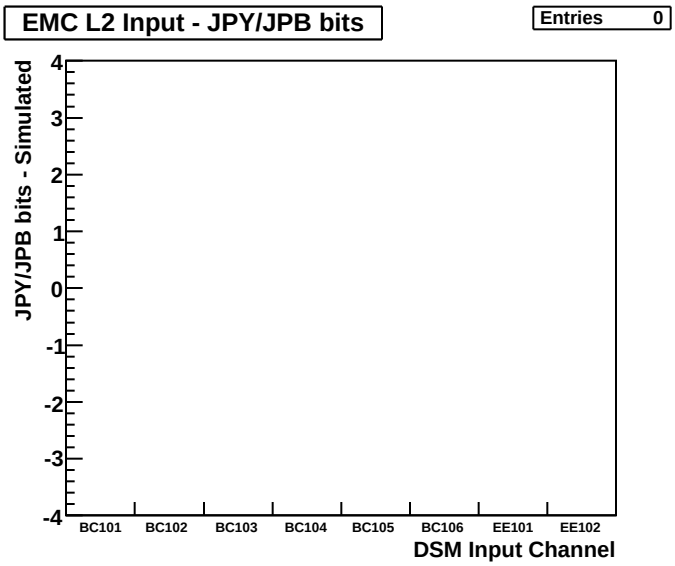

Endcap EMC L1 Input - High Tower Bits
Entries 2287716
High Tower Bits
EE101
EE102
190643
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

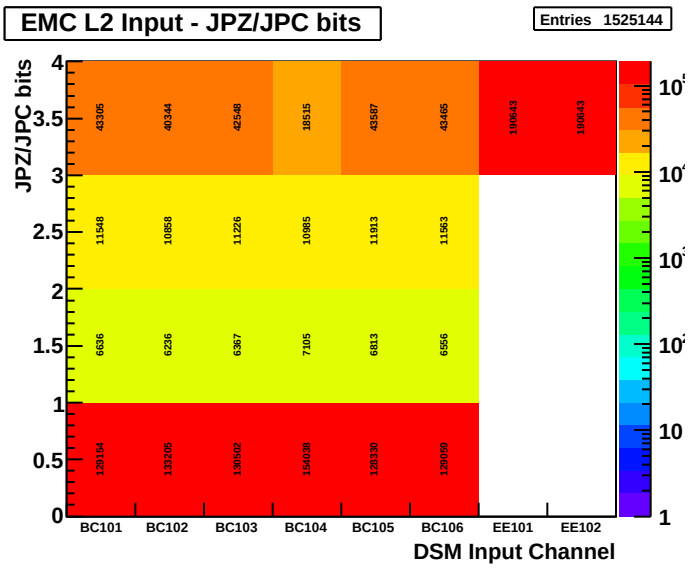

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

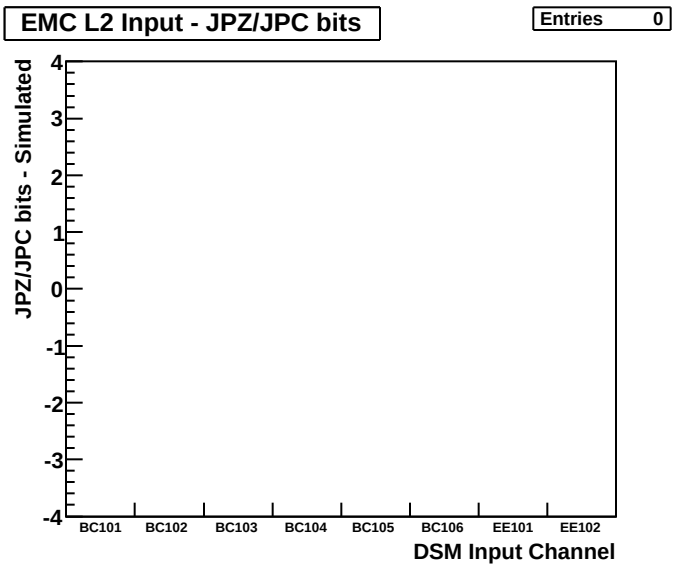

EMC L2 Input - JPX/JPA bits
Entries 1525144
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
45878 43422 42102 41918 42583 42405 190643 190643
11441 11317 11162 10742 11424 10540
6395 6394 6228 6008 6595 5942
126929 129510 131151 131975 130041 131756

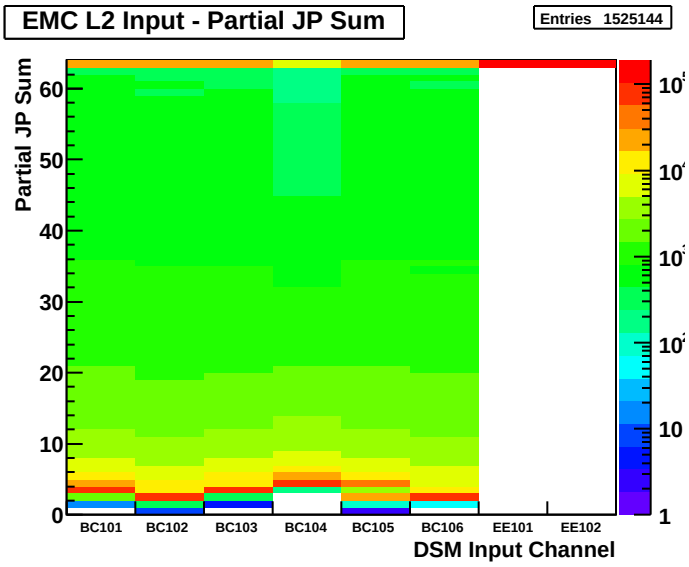

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

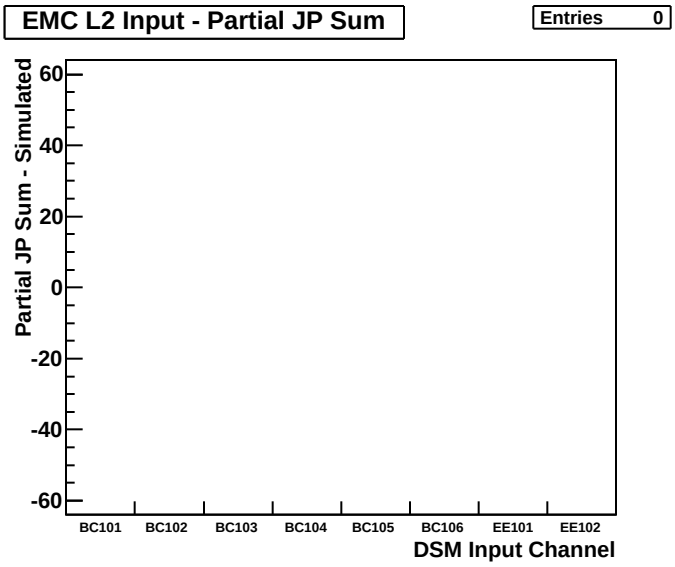

EMC L2 Input - JPY/JPB bits
Entries 1525144
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
44960 41018 41369 34621 42233 43930 190643 190643
11628 10872 10924 11030 11587 11403
6457 6178 6108 6308 6465 6569
127598 132575 132252 133684 130358 128741

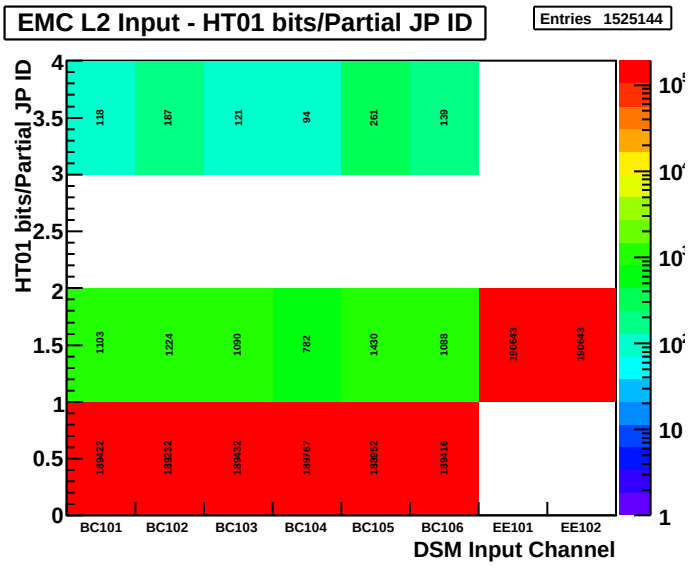

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

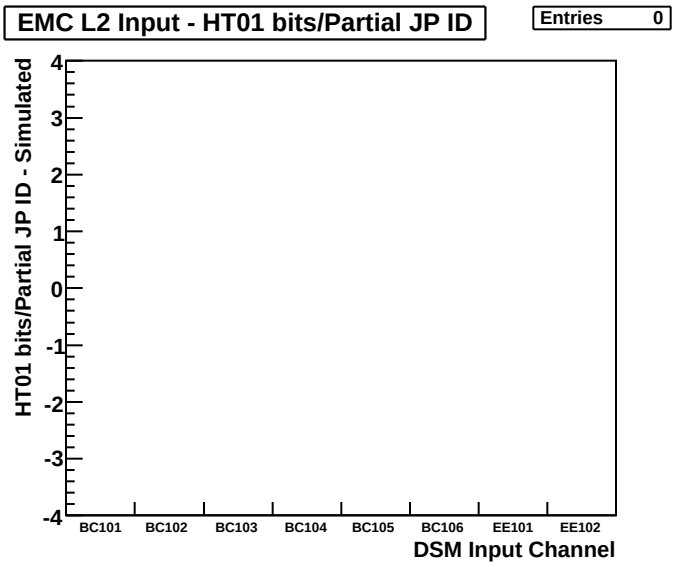

EMC L2 Input - JPZ/JPC bits
Entries 1525144
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
43305 40344 42548 18515 43587 43465 190643 190643
11548 10858 11226 10985 11913 11563
6636 6236 6367 7105 6813 6556
129154 133205 130502 154038 128330 129059

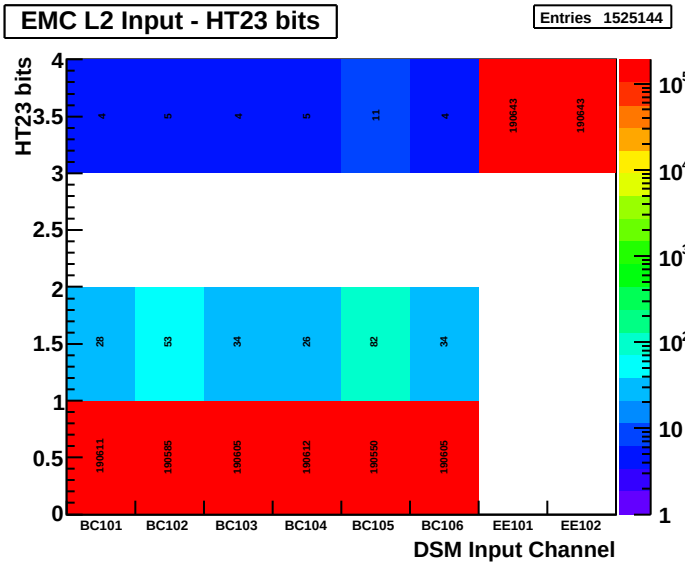

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

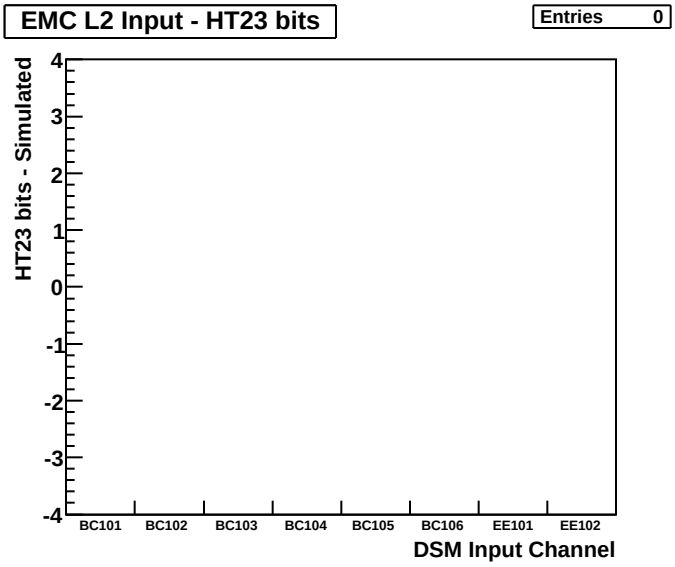

EMC L2 Input - Partial JP Sum
Entries 1525144
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

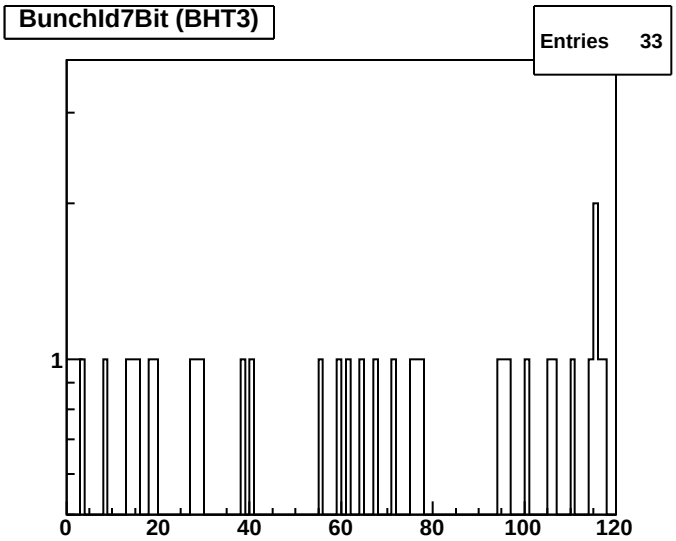

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

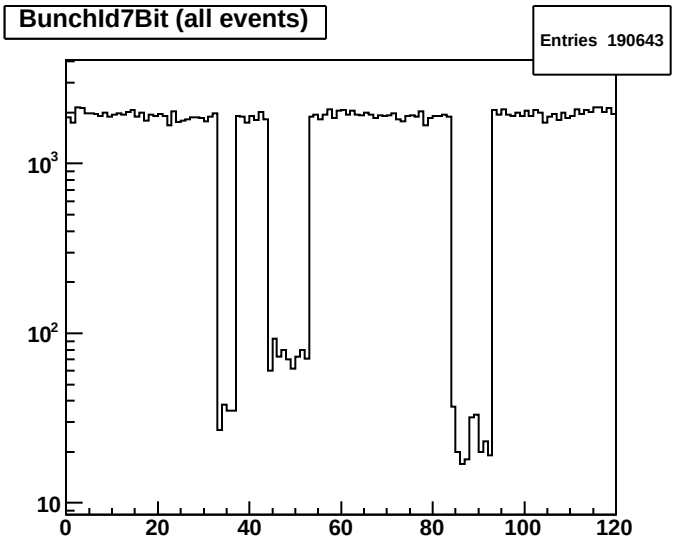

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1525144
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

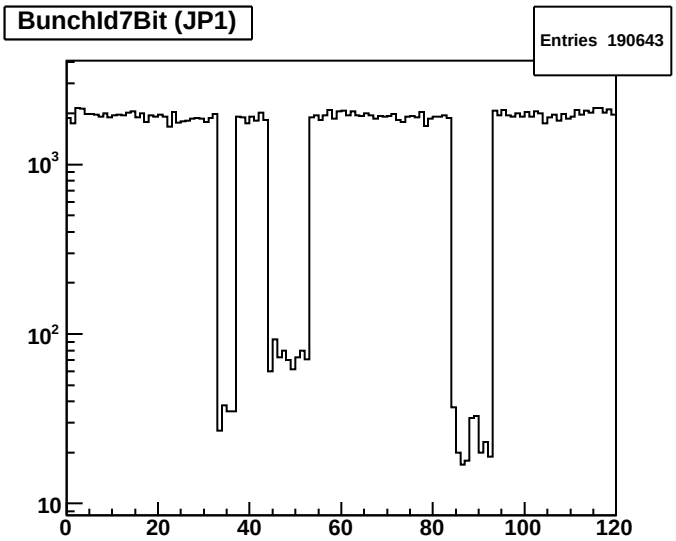

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

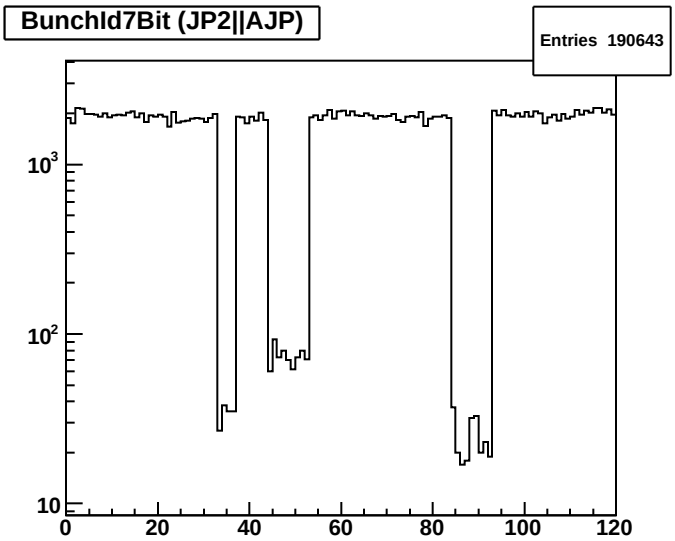

EMC L2 Input - HT23 bits
Entries 1525144
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

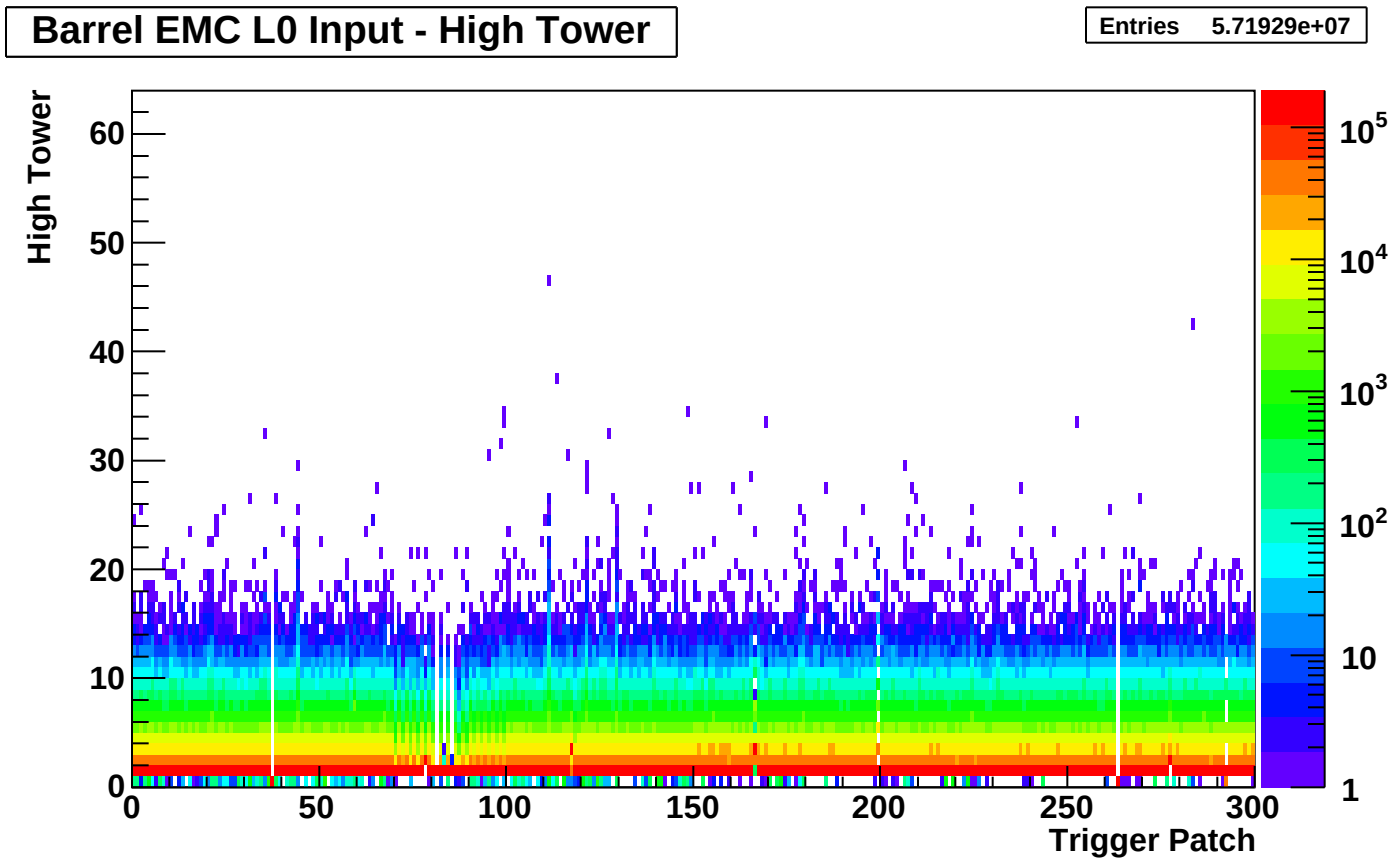

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

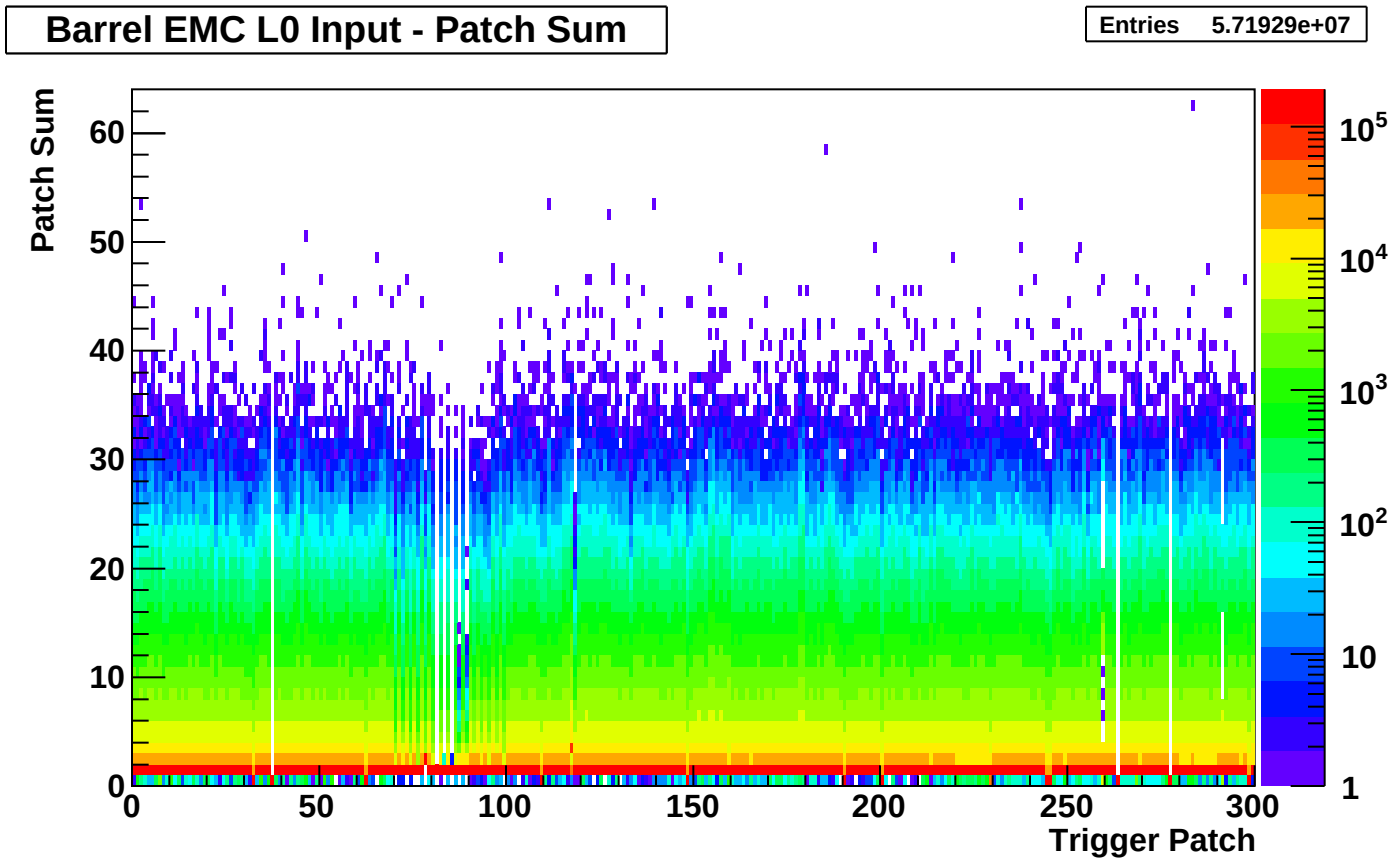

BunchId7Bit (BHT3)
Entries 33
1
0
20
40
60
80
100
120

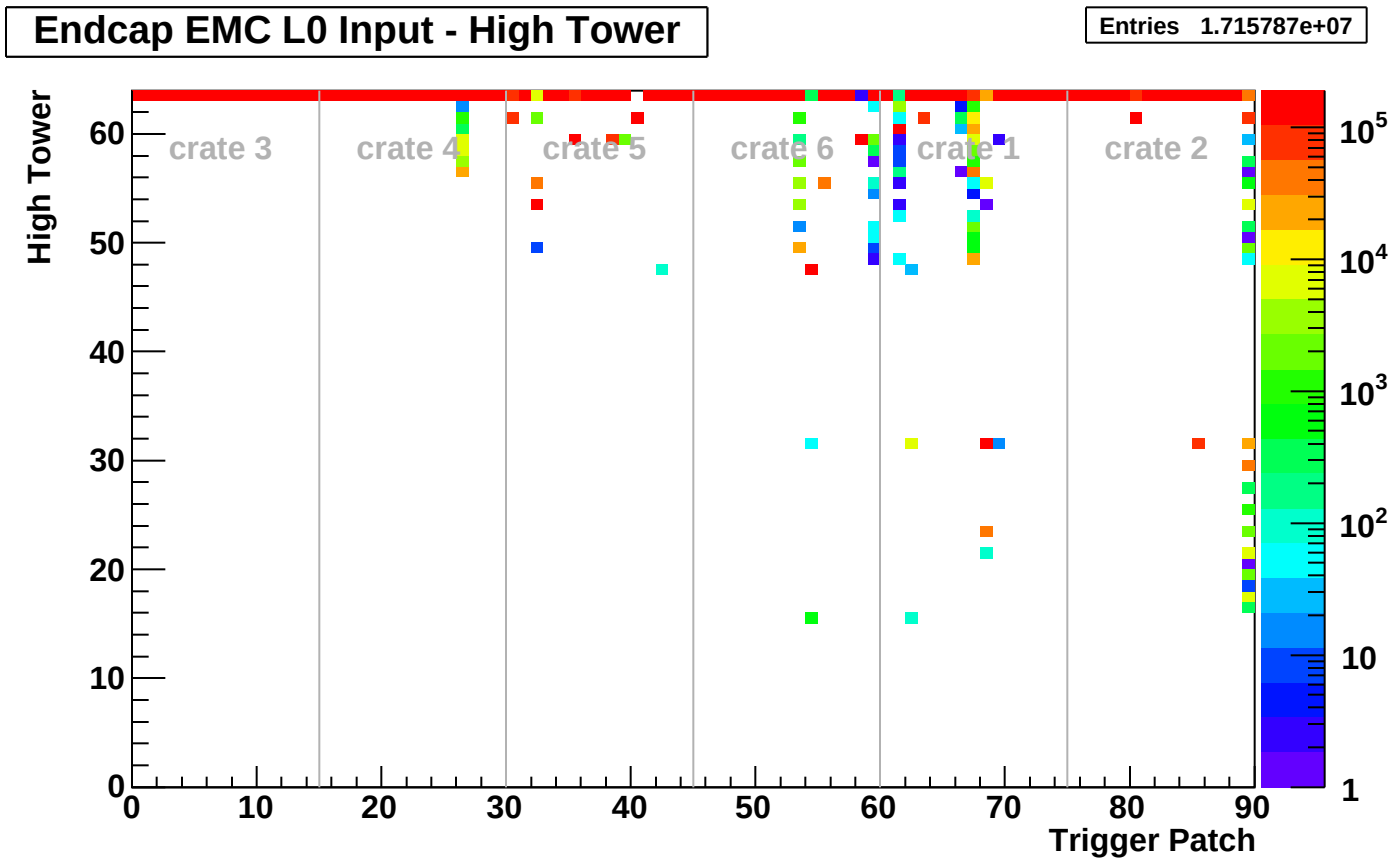

BunchId7Bit (all events)
Entries 190643
$10^3$
$10^2$
10
0
20
40
60
80
100
120

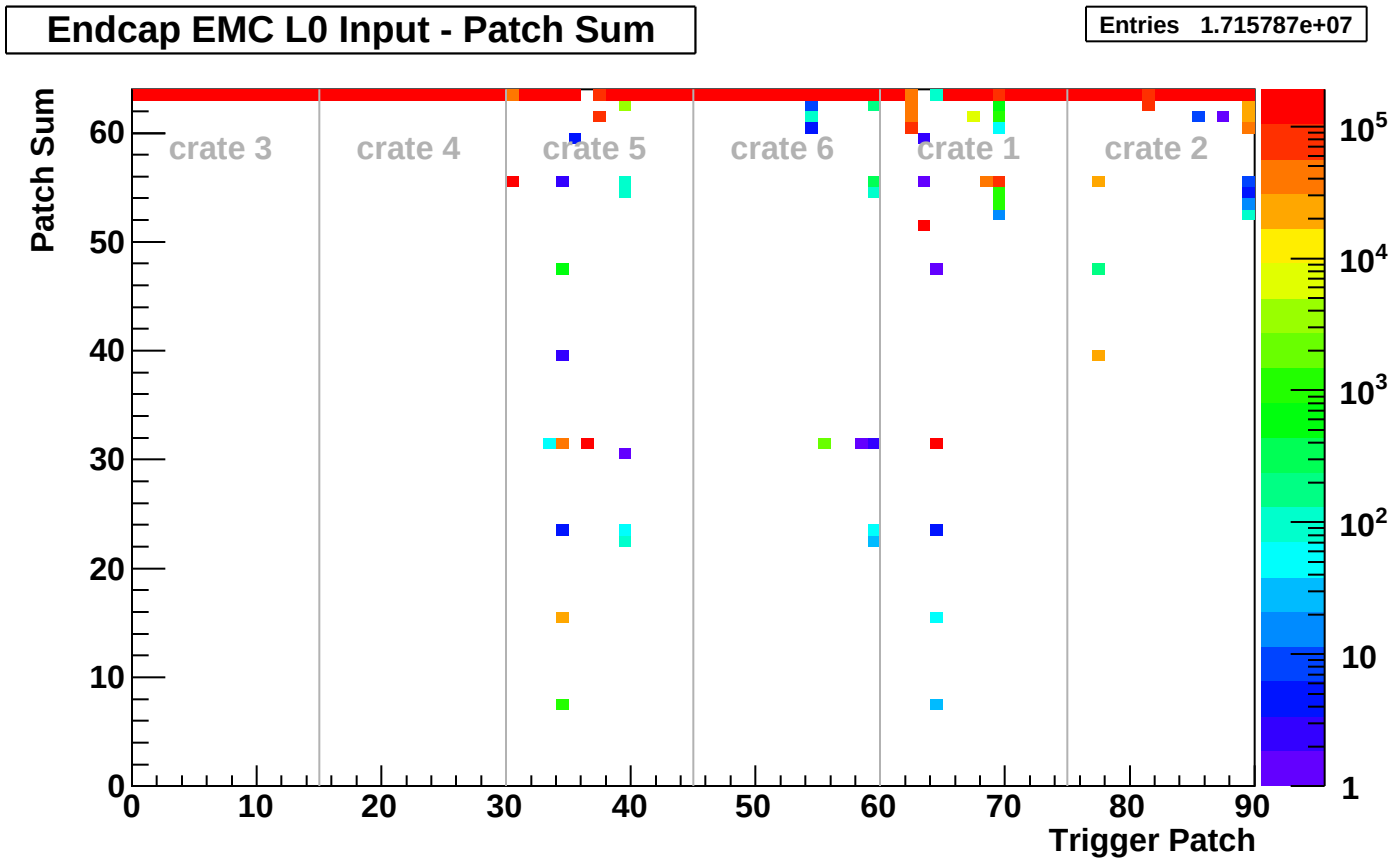

BunchId7Bit (JP1)
Entries 190643
$10^3$
$10^2$
10
0
20
40
60
80
100
120

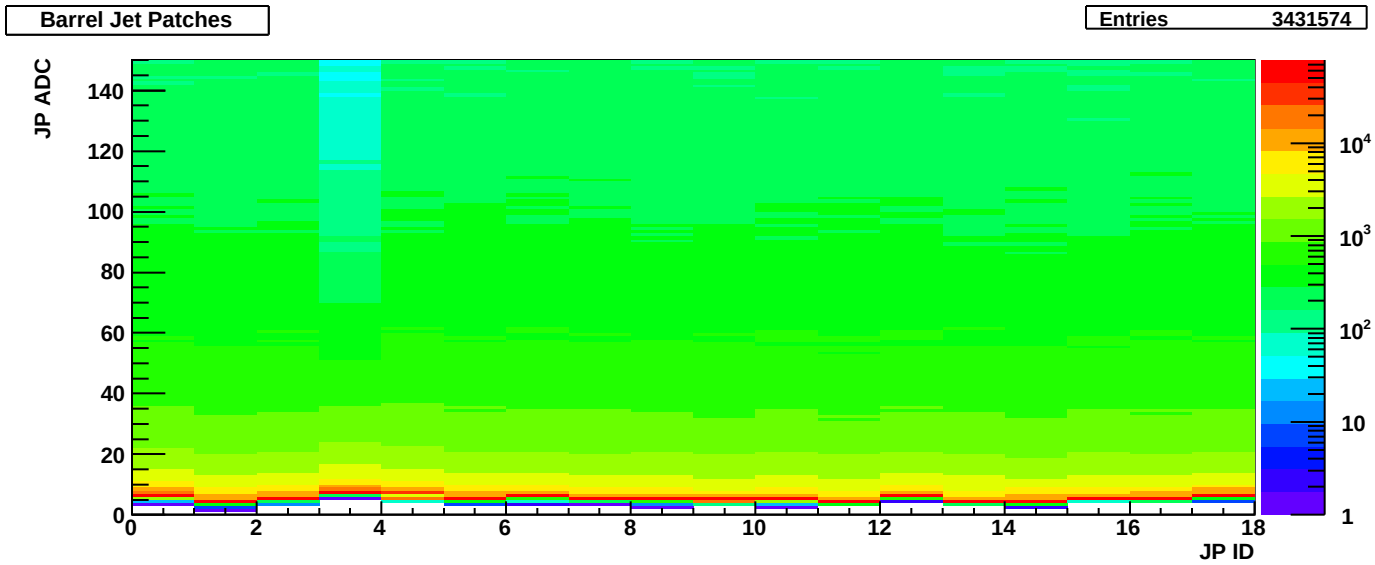

BunchId7Bit (JP2||AJP)
Entries 190643
$10^3$
$10^2$
10
0
20
40
60
80
100
120

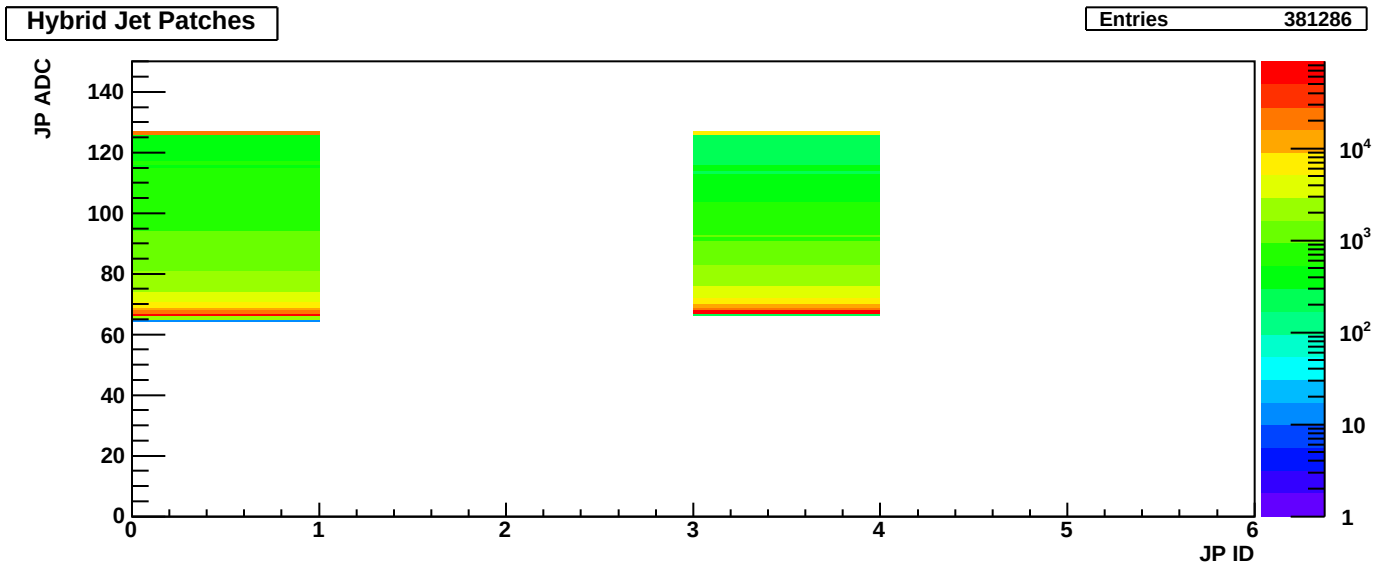

Barrel EMC L0 Input - High Tower
Entries 5.71929e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

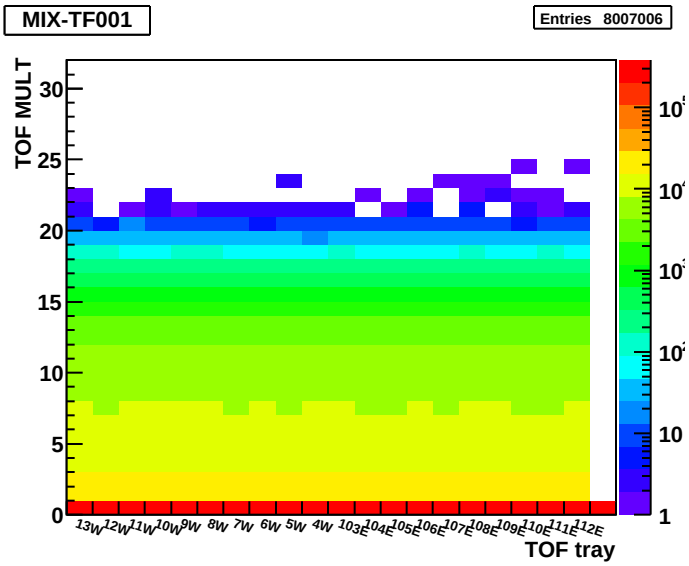

Barrel EMC L0 Input - Patch Sum
Entries 5.71929e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

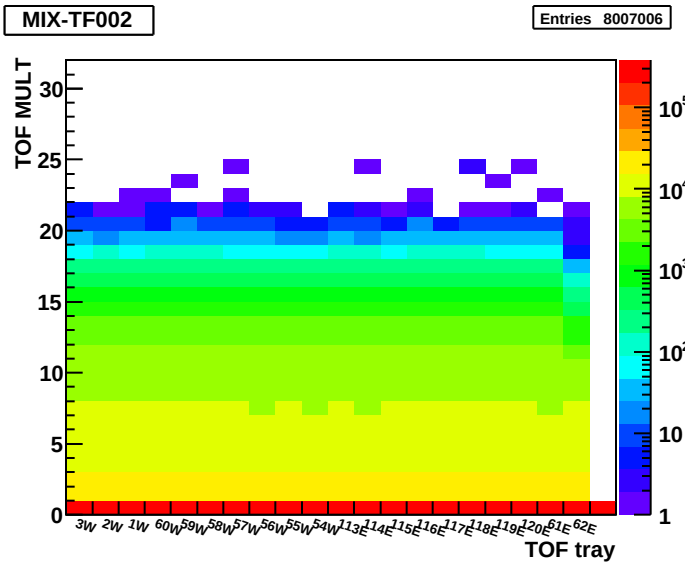

Endcap EMC L0 Input - High Tower
Entries 1.715787e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

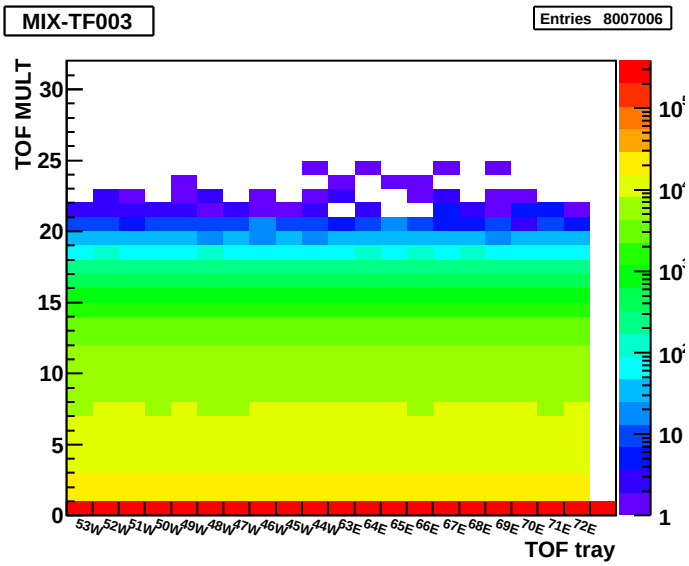

Endcap EMC L0 Input - Patch Sum
Entries 1.715787e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

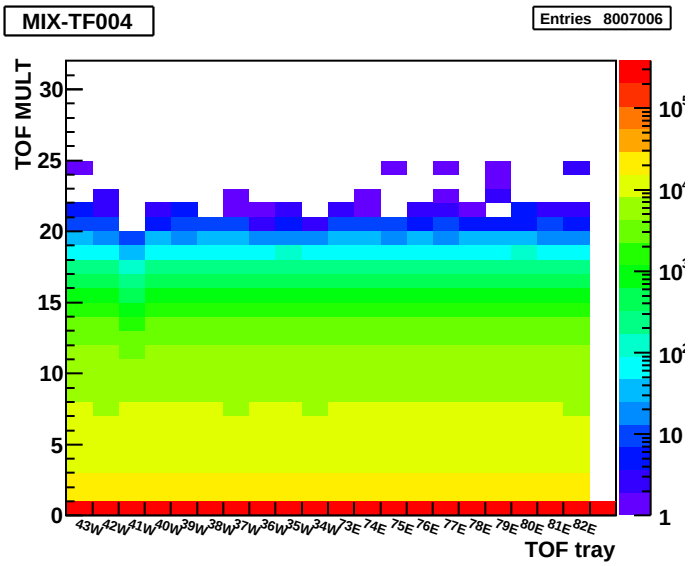

Barrel Jet Patches
Entries 3431574
JP ADC
JP ID

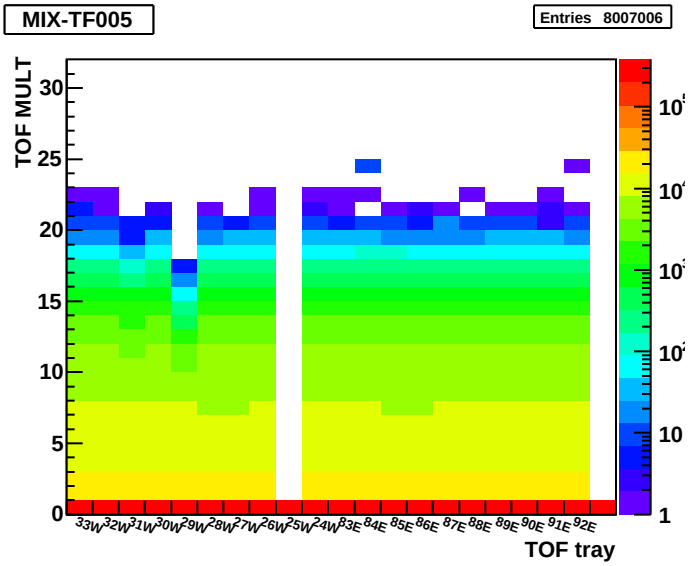

Hybrid Jet Patches
Entries 381286
JP ADC
JP ID

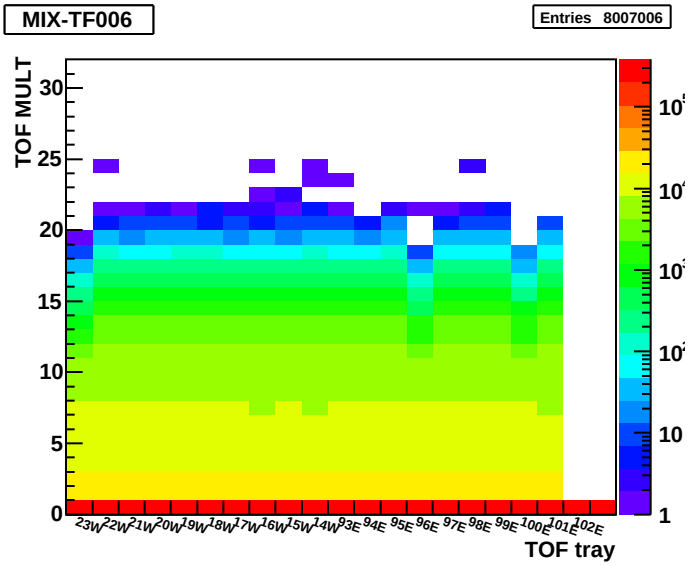

MIX-TF001
Entries 8007006
TOF MULT
TOF tray

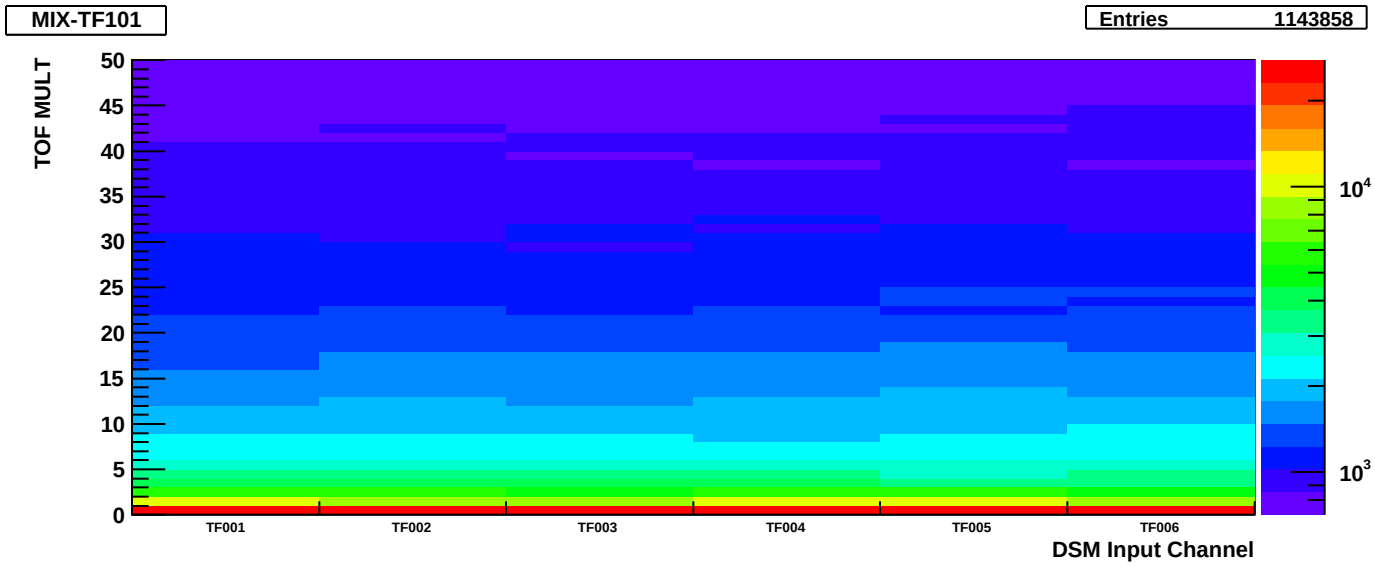

MIX-TF002
Entries 8007006
TOF MULT
TOF tray

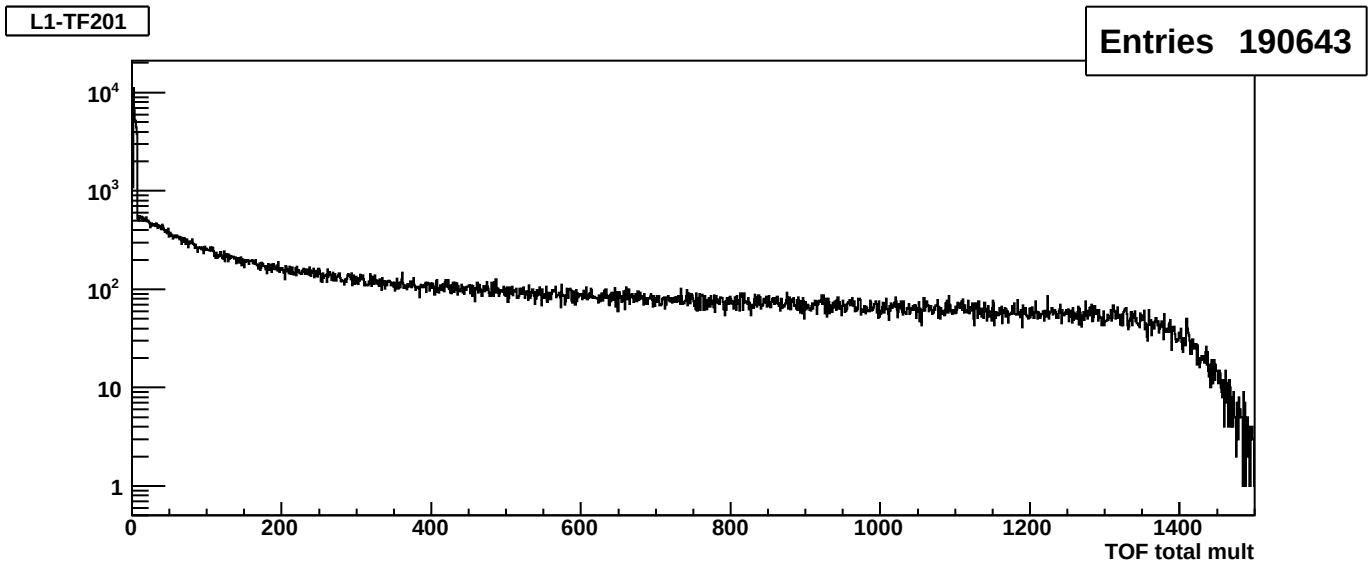

MIX-TF003
Entries 8007006
TOF MULT
TOF tray

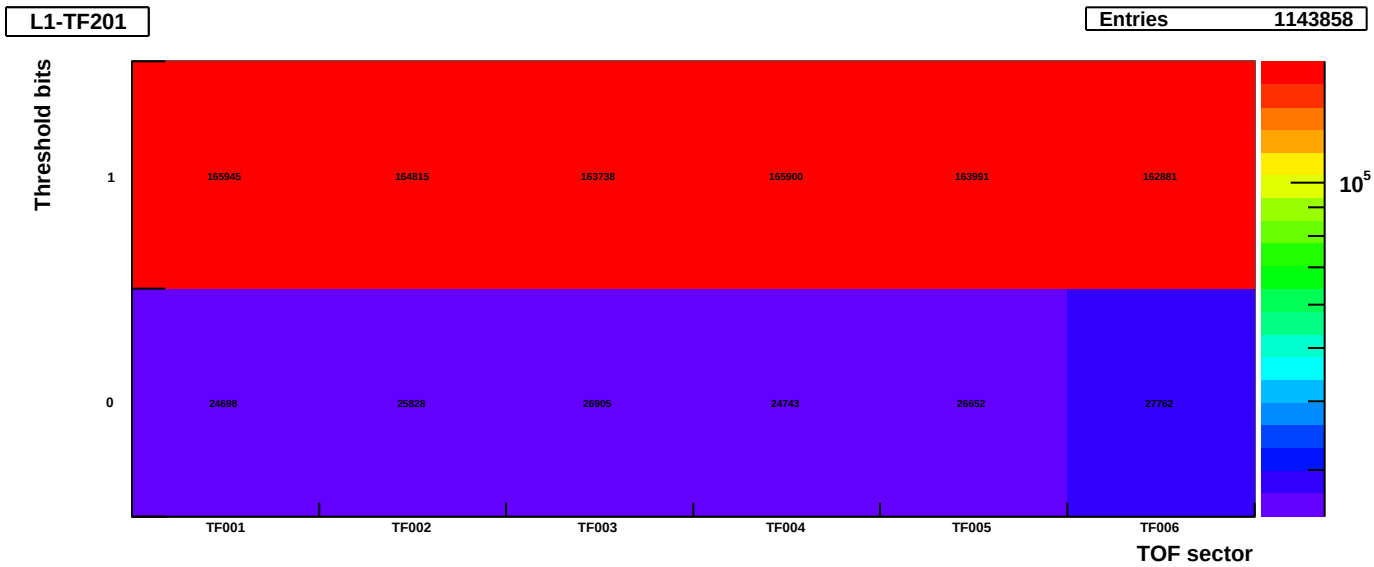

MIX-TF004
Entries 8007006
TOF MULT
TOF tray

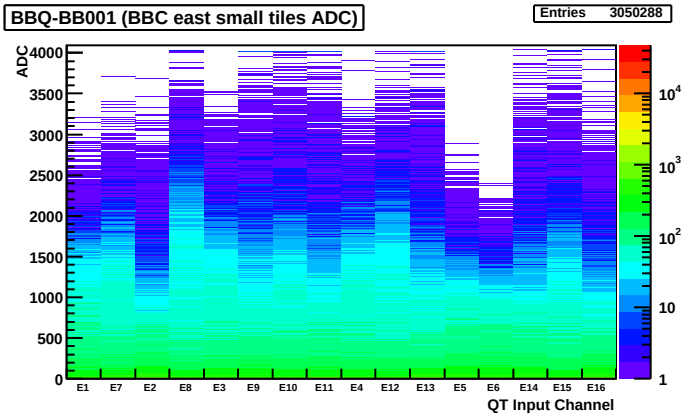

MIX-TF005
Entries 8007006
TOF MULT
TOF tray

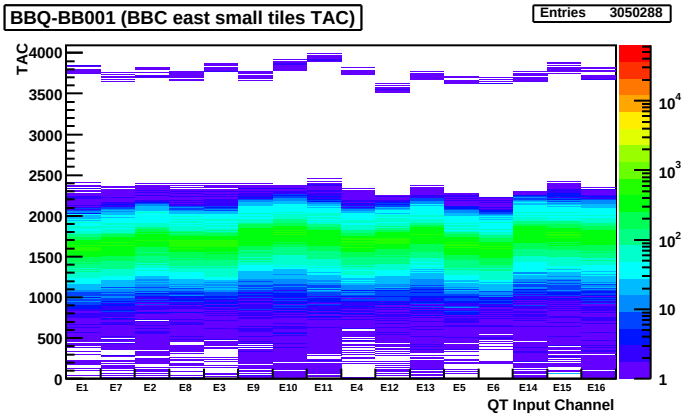

MIX-TF006
Entries 8007006
TOF MULT
TOF tray

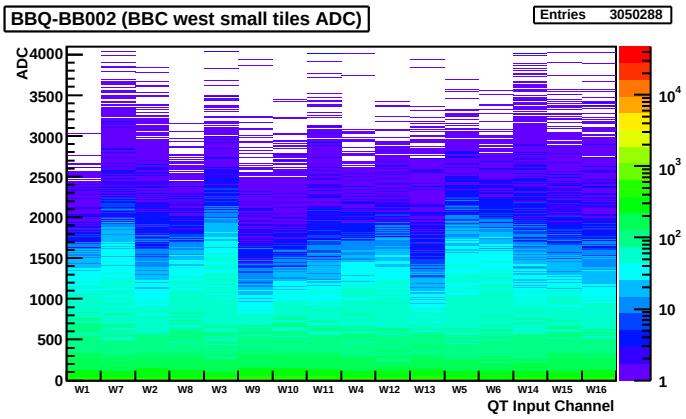

MIX-TF101
Entries 1143858
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
$10^4$
$10^3$

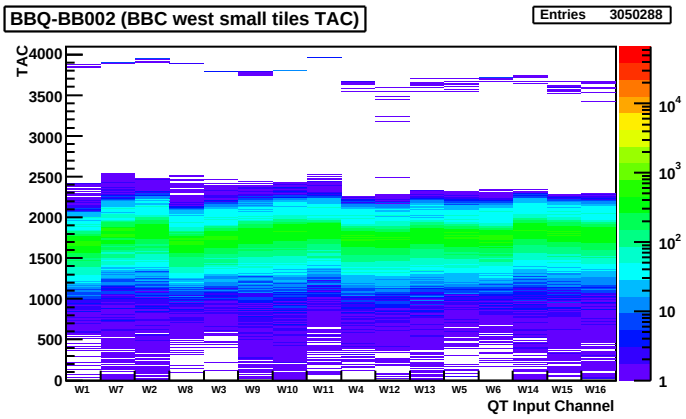

L1-TF201
Entries 190643
$10^4$
$10^3$
$10^2$
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

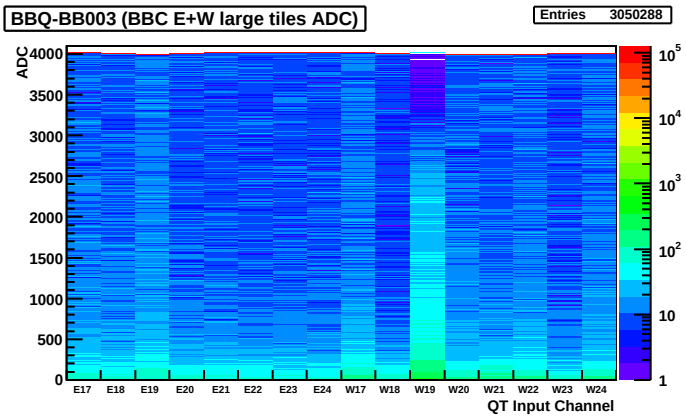

L1-TF201
Entries 1143858
Threshold bits
1
0
165945
164815
163738
165900
163991
162881
24698
25828
26905
24743
26652
27762
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
$10^5$

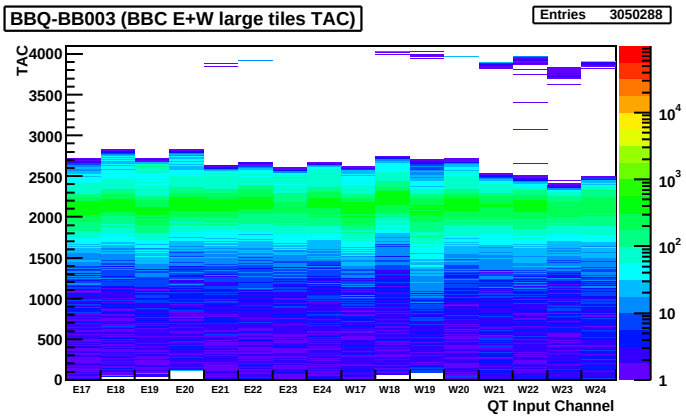

BBQ-BB001 (BBC east small tiles ADC)
Entries 3050288
ADC
QT Input Channel

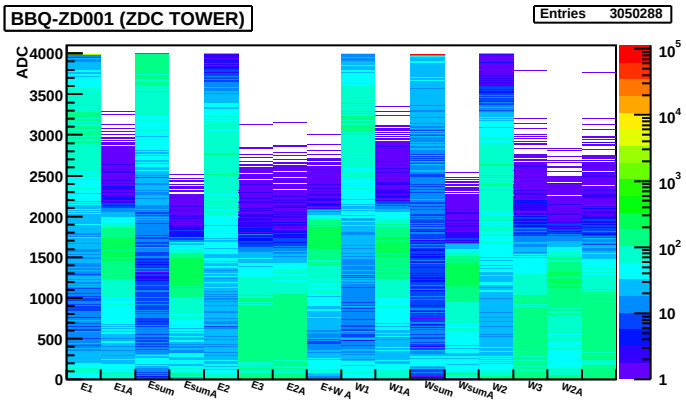

BBQ-BB001 (BBC east small tiles TAC)
Entries 3050288
TAC
QT Input Channel

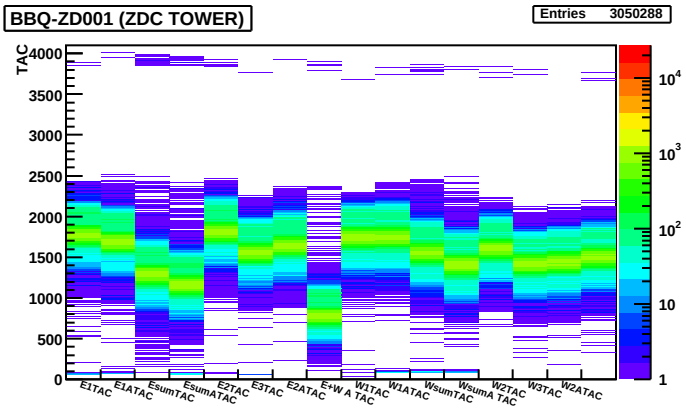

BBQ-BB002 (BBC west small tiles ADC)
Entries 3050288
ADC
QT Input Channel

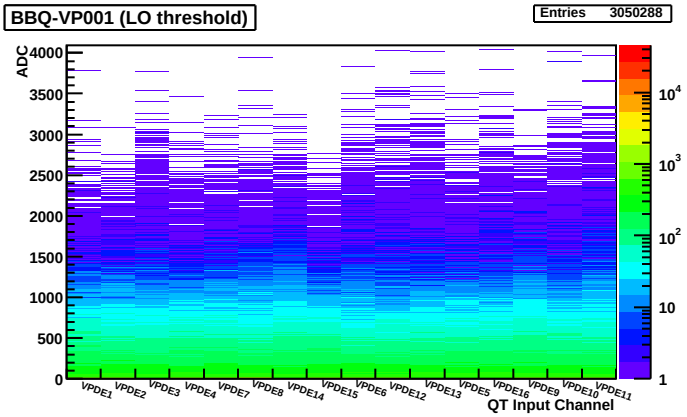

BBQ-BB002 (BBC west small tiles TAC)
Entries 3050288
TAC
QT Input Channel

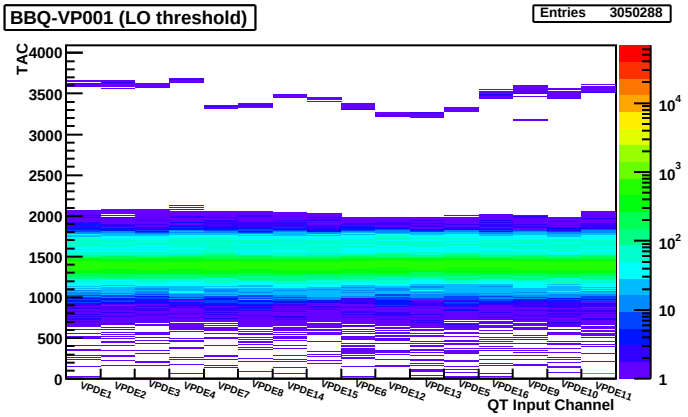

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3050288
ADC
QT Input Channel

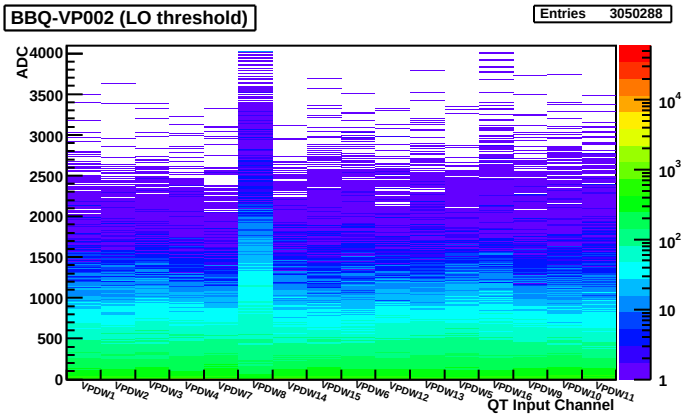

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3050288
TAC
QT Input Channel

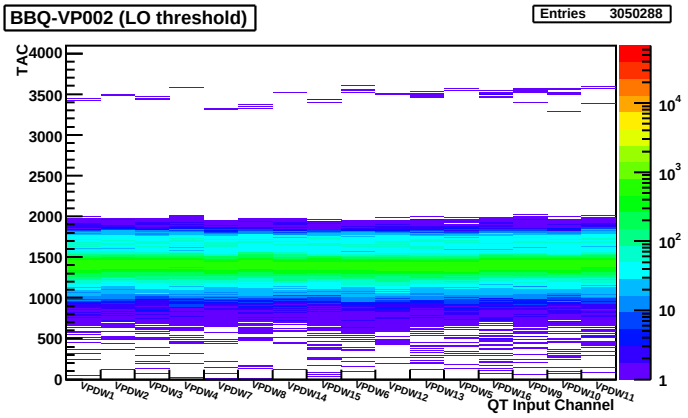

BBQ-ZD001 (ZDC TOWER)
Entries 3050288
ADC

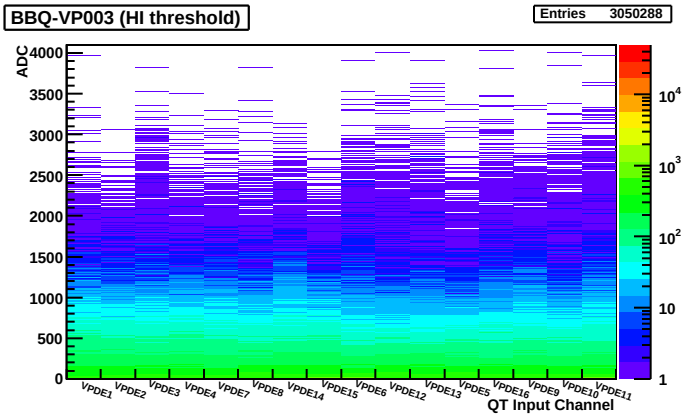

BBQ-ZD001 (ZDC TOWER)
Entries 3050288
TAC

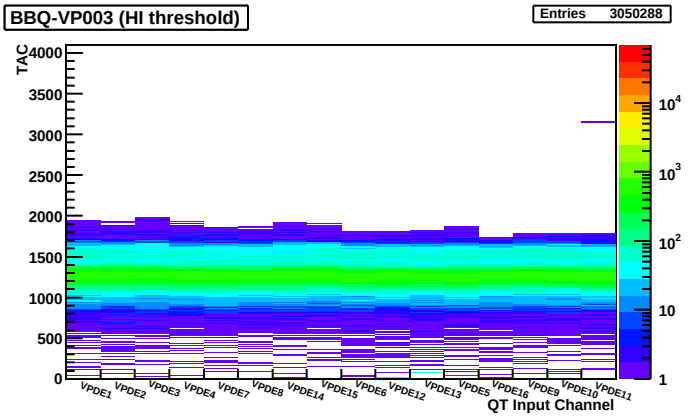

BBQ-VP001 (LO threshold)
Entries 3050288
ADC
QT Input Channel

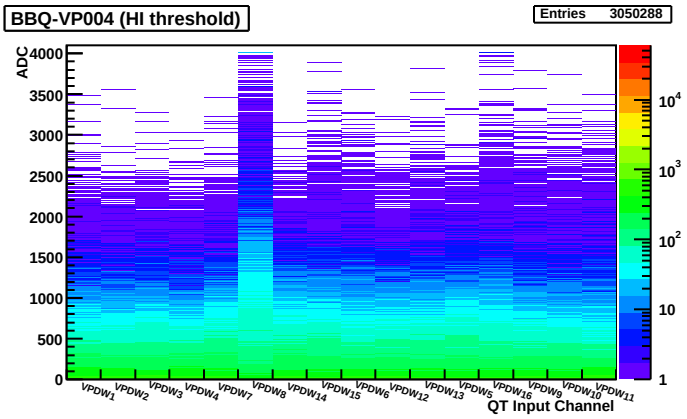

BBQ-VP001 (LO threshold)
Entries 3050288
TAC
QT Input Channel

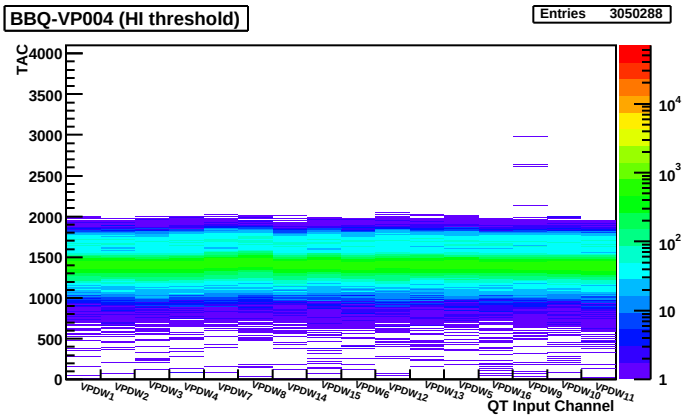

BBQ-VP002 (LO threshold)
Entries 3050288
ADC
QT Input Channel

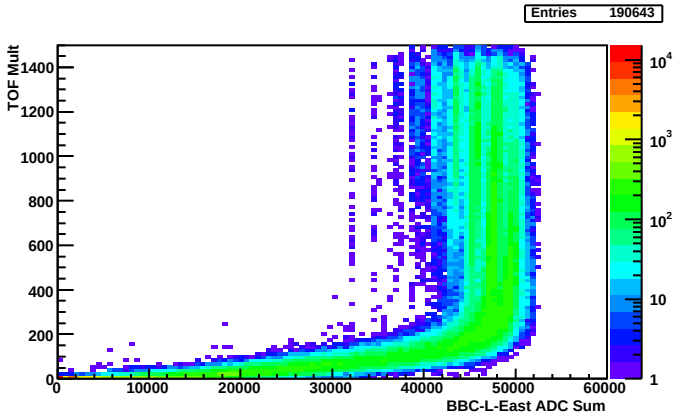

BBQ-VP002 (LO threshold)
Entries 3050288
TAC
QT Input Channel

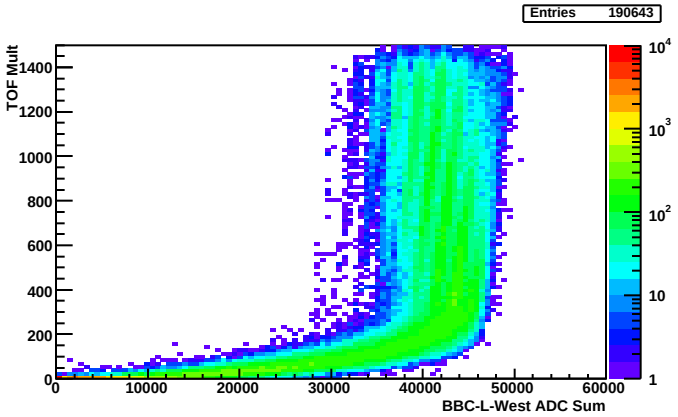

BBQ-VP003 (HI threshold)
Entries 3050288
ADC
QT Input Channel

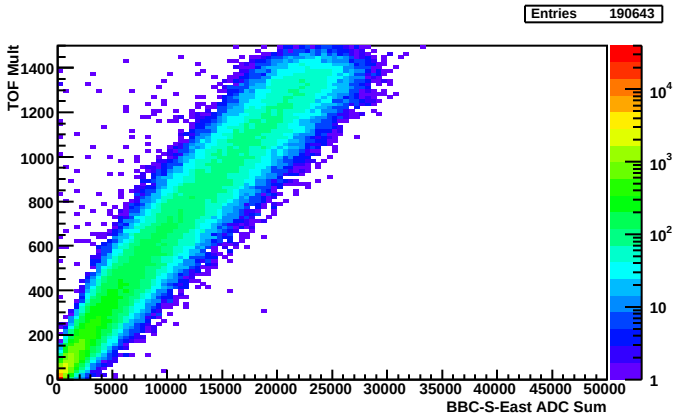

BBQ-VP003 (HI threshold)
Entries 3050288
TAC
QT Input Channel

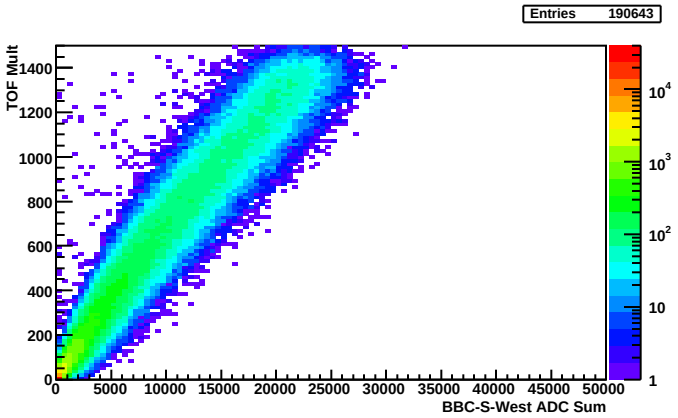

BBQ-VP004 (HI threshold)
Entries 3050288
ADC
QT Input Channel

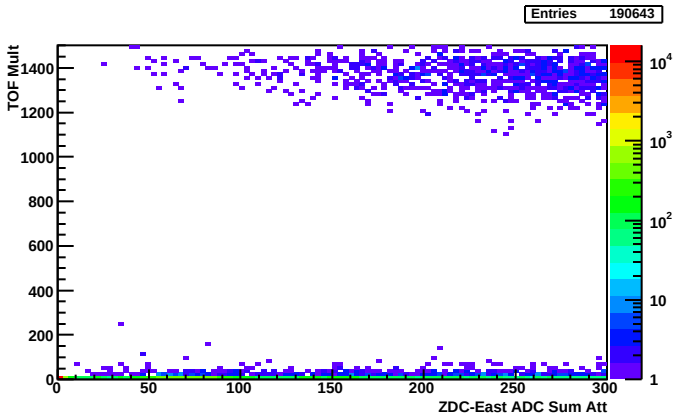

BBQ-VP004 (HI threshold)
Entries 3050288
TAC
QT Input Channel

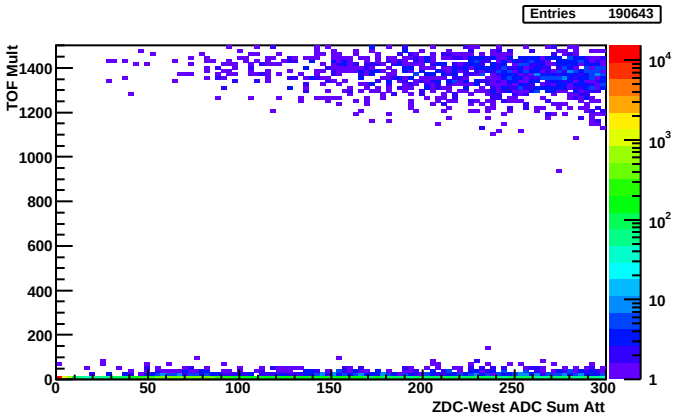

Entries 190643
TOF Mult
BBC-L-East ADC Sum

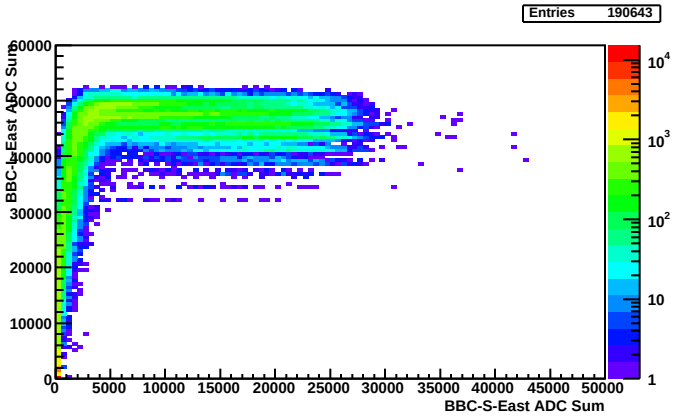

Entries 190643
TOF Mult
BBC-L-West ADC Sum

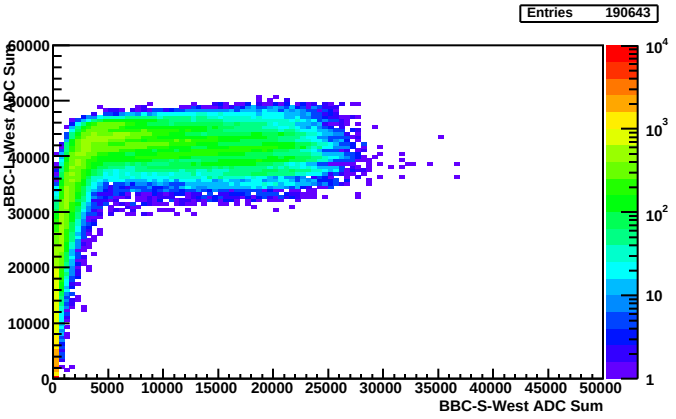

Entries 190643
TOF Mult
BBC-S-East ADC Sum

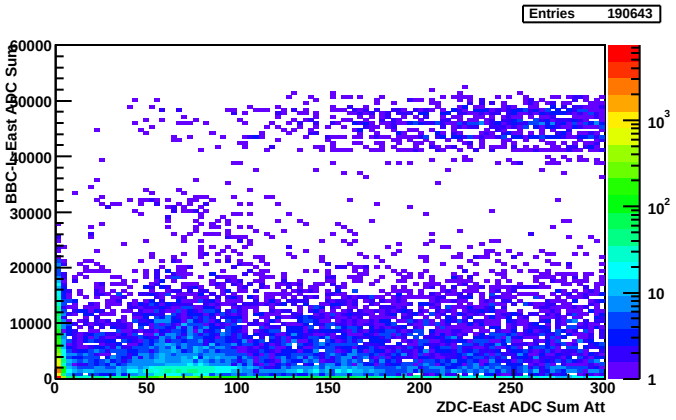

Entries 190643
TOF Mult
BBC-S-West ADC Sum

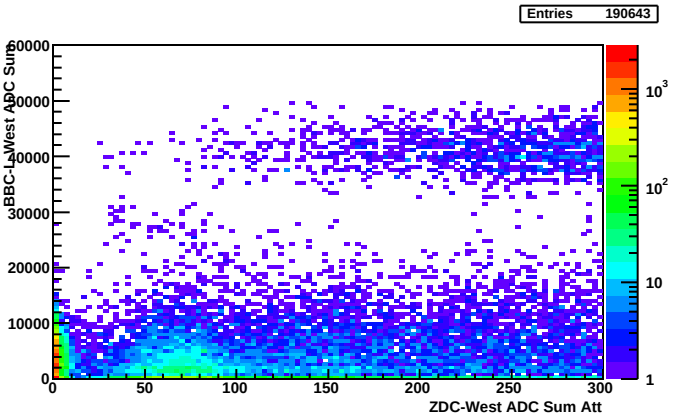

Entries 190643
TOF Mult
ZDC-East ADC Sum Att


Entries 190643
TOF Mult
ZDC-West ADC Sum Att


Entries 190643
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 190643
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 190643
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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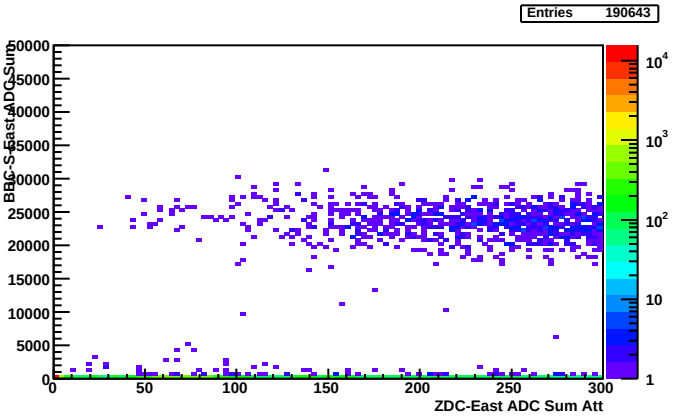
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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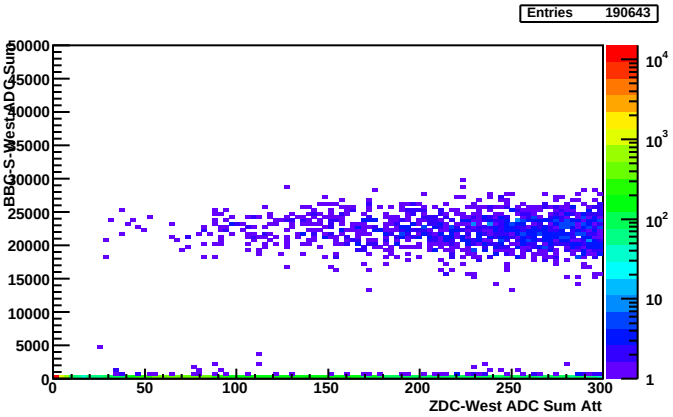
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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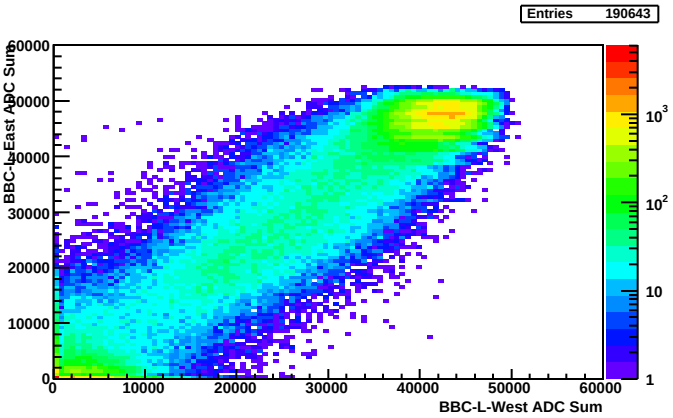
BBC-S-West ADC Sum
ZDC-West ADC Sum Att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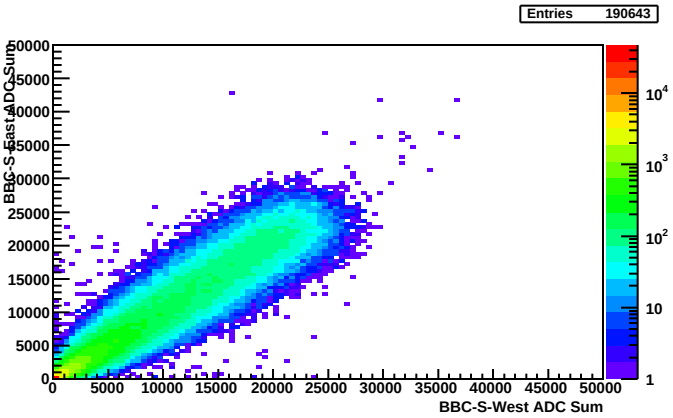
BBC-L-East ADC Sum
BBC-L-West ADC Sum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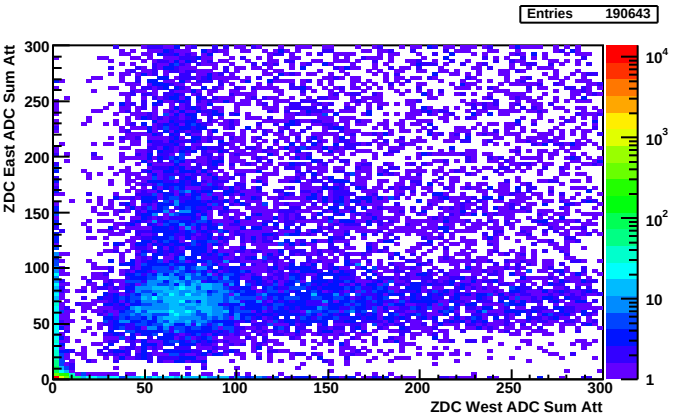
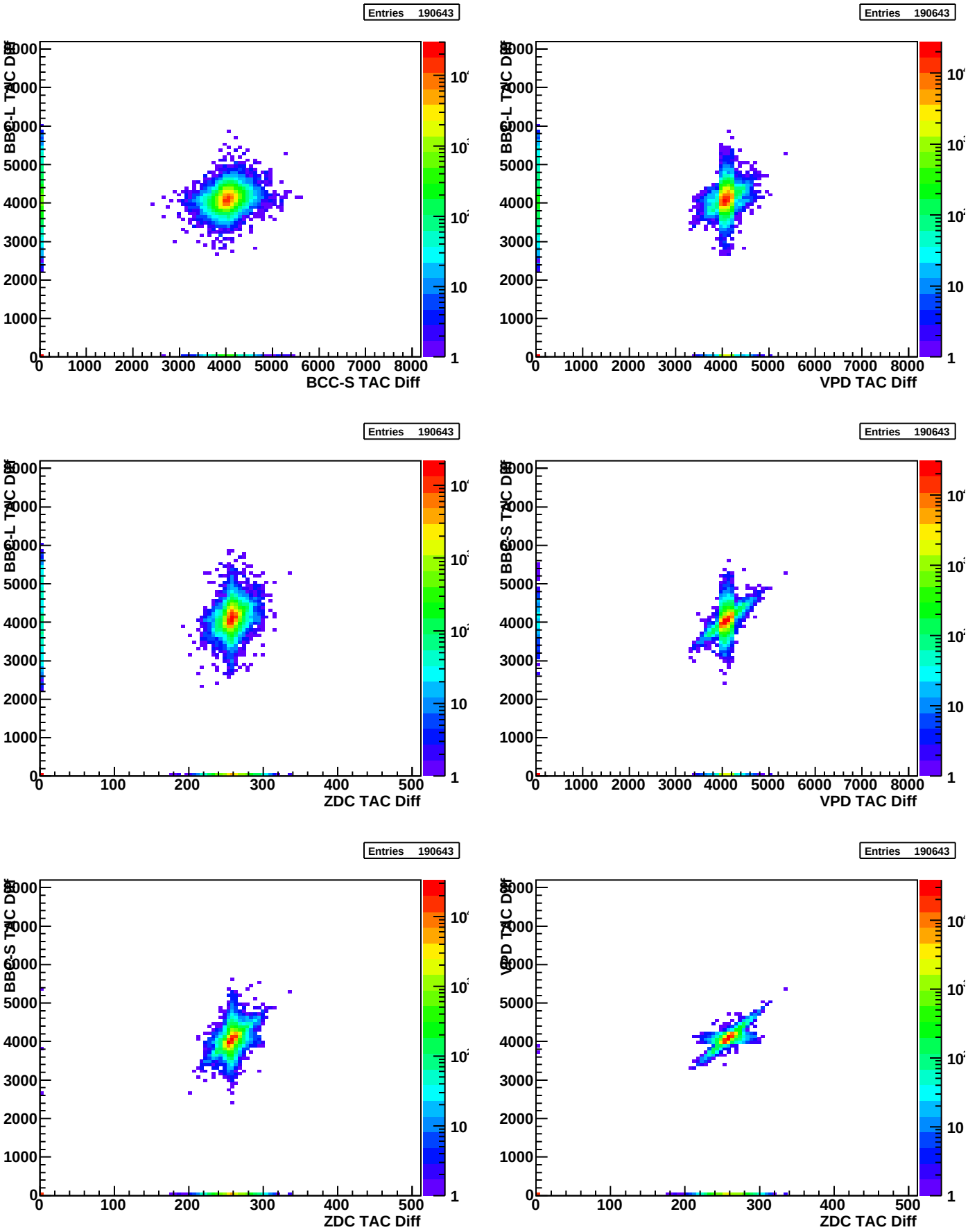
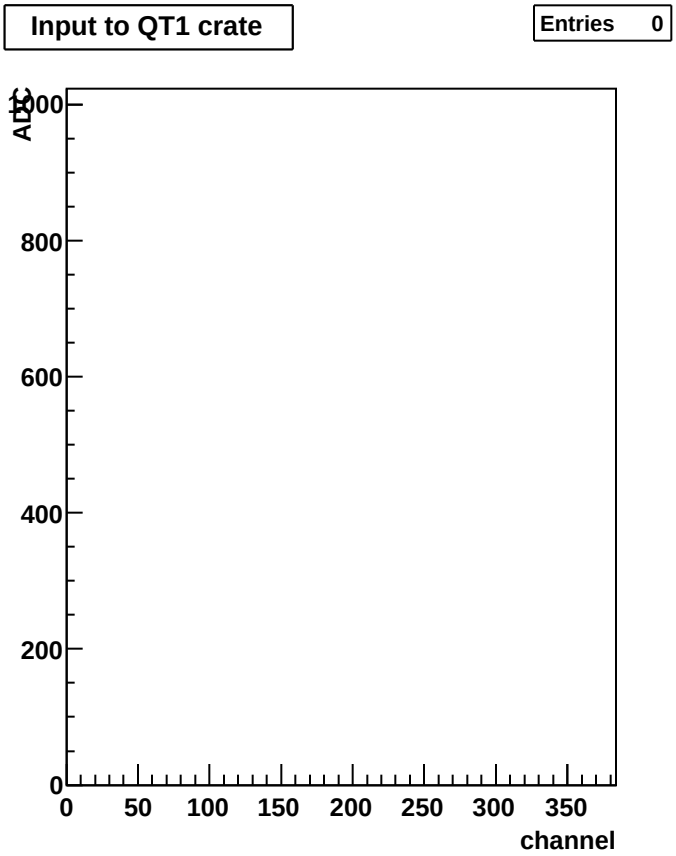
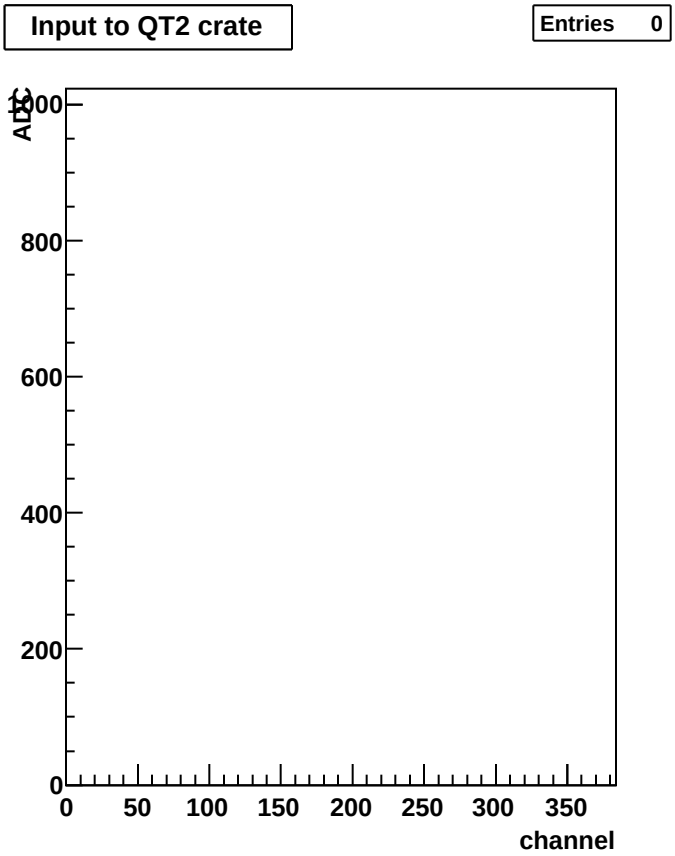
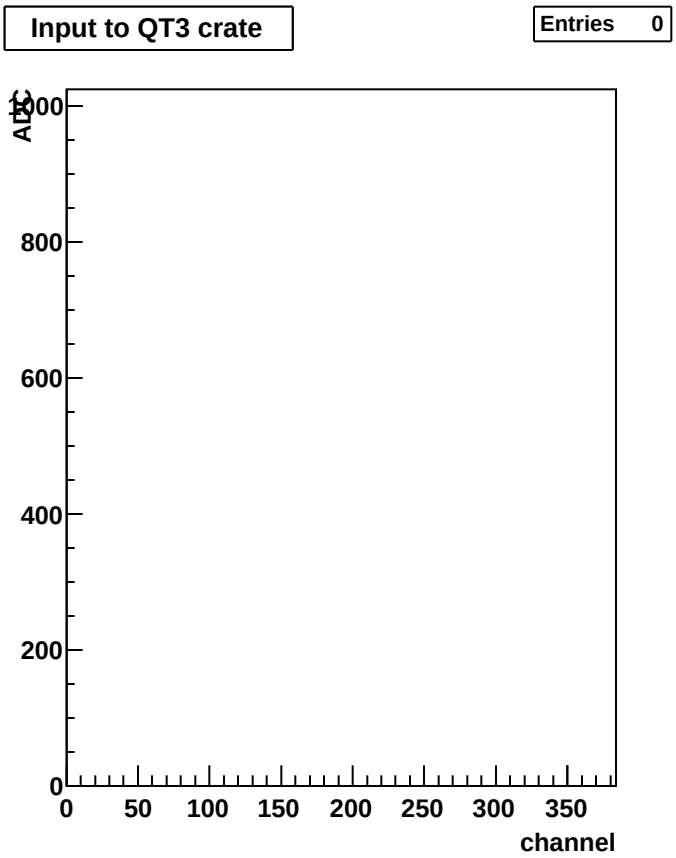
BBC-S-East ADC Sum
BBC-S-West ADC Sum

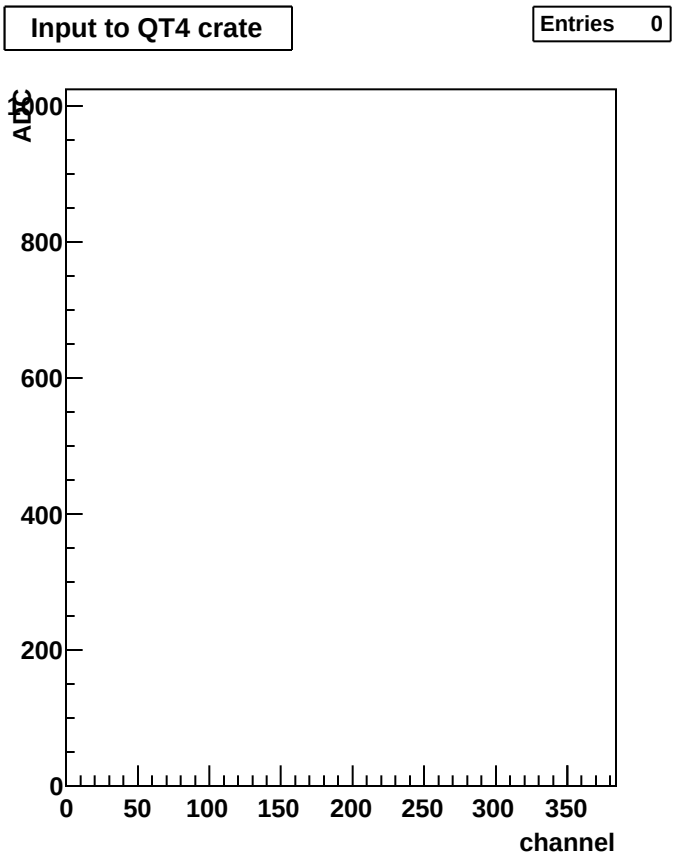

Entries 190643
ZDC East ADC Sum Att
ZDC West ADC Sum Att

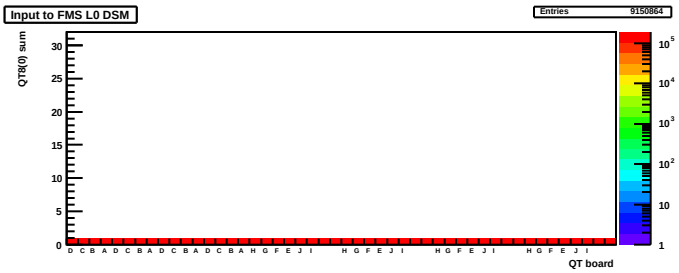

Entries 190643
BBC-L TAC Diff
BCC-S TAC Diff
Entries 190643
BBC-L TAC Diff
VPD TAC Diff
Entries 190643
BBC-L TAC Diff
ZDC TAC Diff
Entries 190643
BBC-S TAC Diff
VPD TAC Diff
Entries 190643
BBC-S TAC Diff
ZDC TAC Diff
Entries 190643
VPD TAC Diff
ZDC TAC Diff

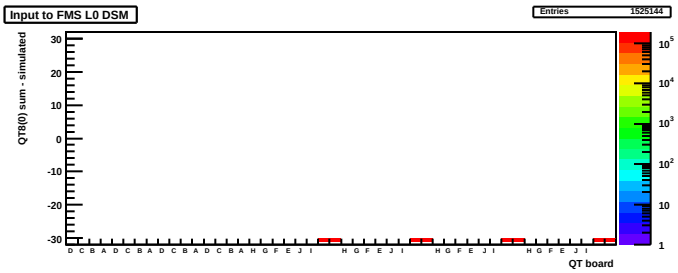

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

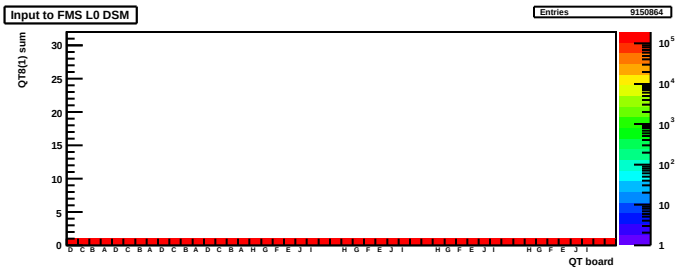

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

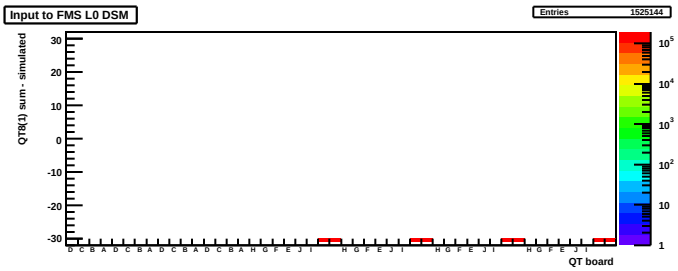

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

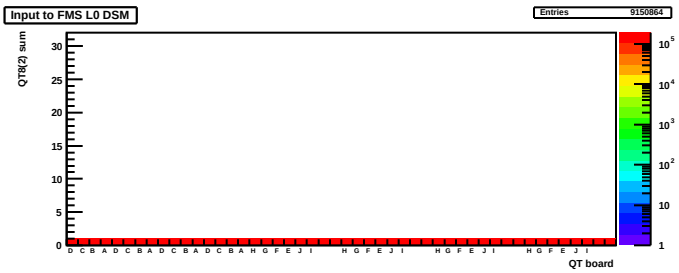

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

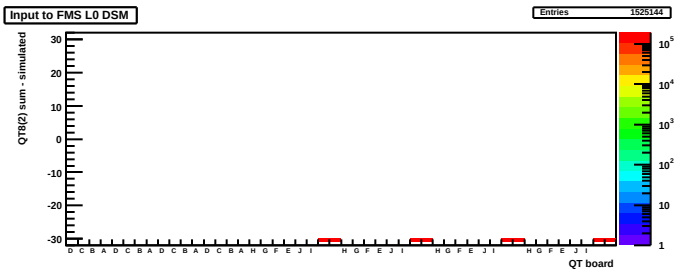

Input to FMS L0 DSM
Entries 9150864
QT8(0) sum
QT board

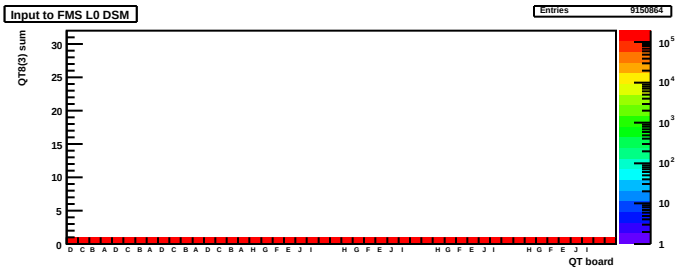

Input to FMS L0 DSM
Entries 1525144
QT8(0) sum - simulated
QT board

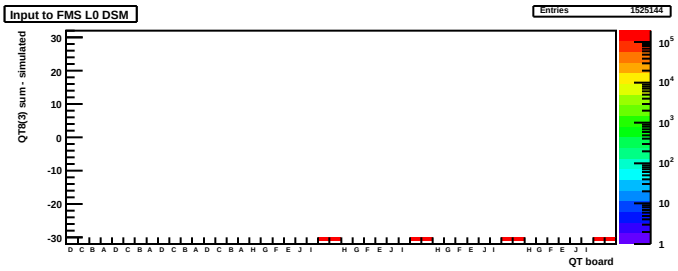

Input to FMS L0 DSM
Entries 9150864
QT8(1) sum
QT board

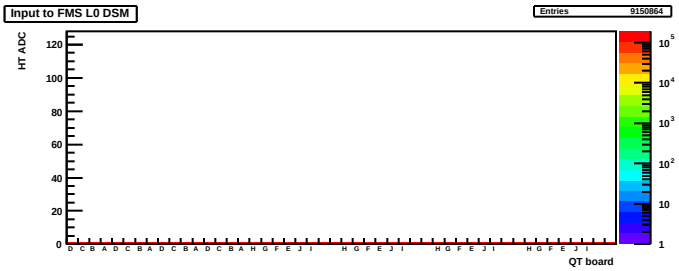

Input to FMS L0 DSM
Entries 1525144
QT8(1) sum - simulated
QT board

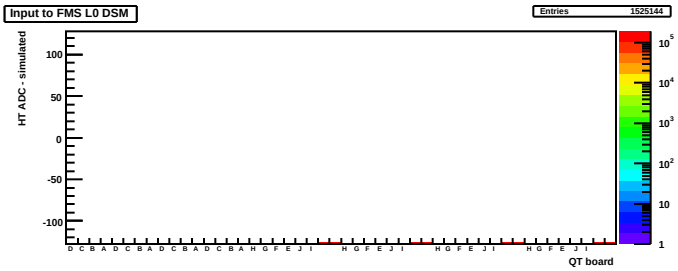

Input to FMS L0 DSM
Entries 9150864
QT8(2) sum
QT board

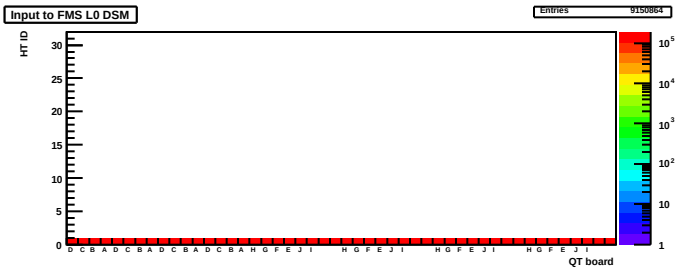

Input to FMS L0 DSM
Entries 1525144
QT8(2) sum - simulated
QT board

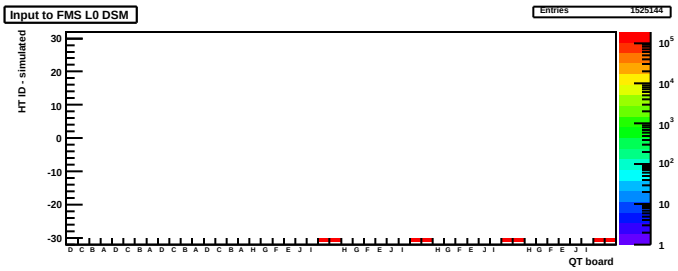

Input to FMS L0 DSM
Entries 9150864
QT8(3) sum
QT board

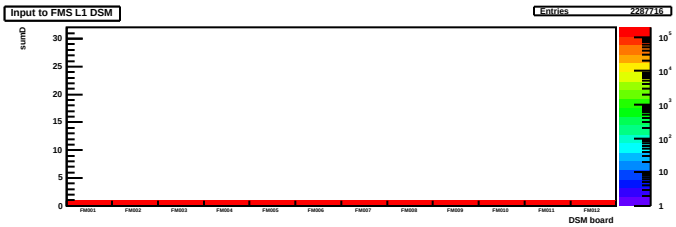

Input to FMS L0 DSM
Entries 1525144
QT8(3) sum - simulated
QT board

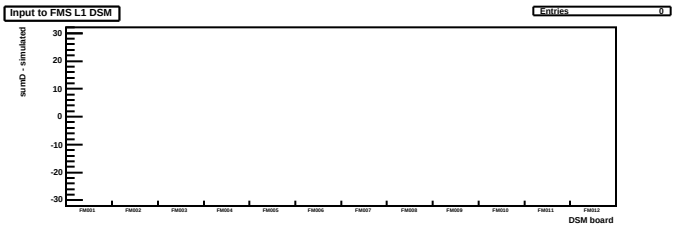

Input to FMS L0 DSM
Entries 9150864
HT ADC
QT board

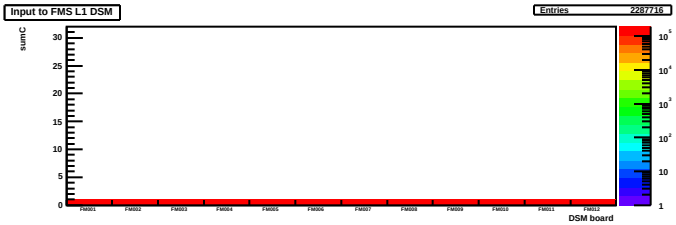

Input to FMS L0 DSM
Entries 1525144
HT ADC - simulated
QT board

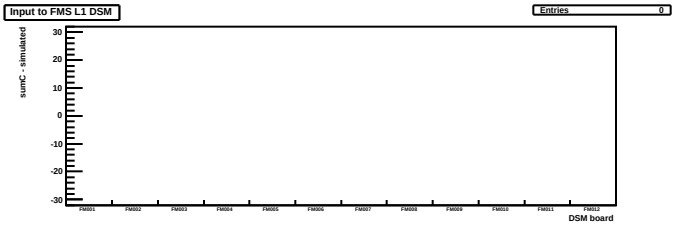

Input to FMS L0 DSM
Entries 9150864
HT ID
QT board

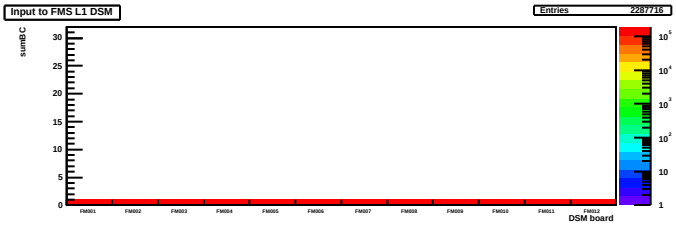

Input to FMS L0 DSM
Entries 1525144
HT ID - simulated
QT board

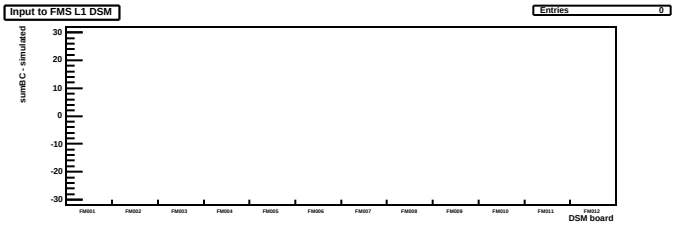

Input to FMS L1 DSM
Entries 2287716
sumD
DSM board

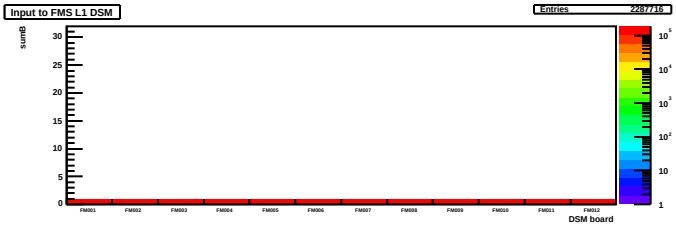

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

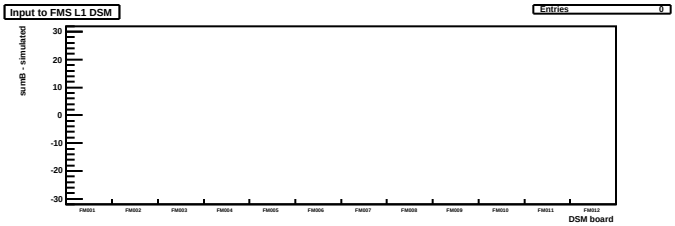

Input to FMS L1 DSM
Entries 2287716
sumC
DSM board

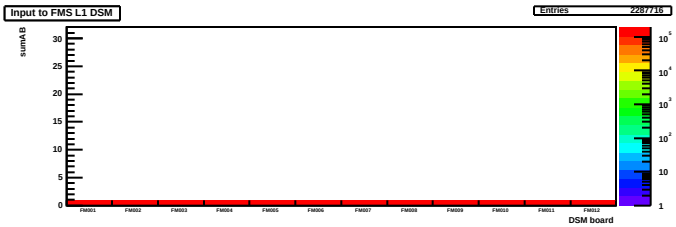

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

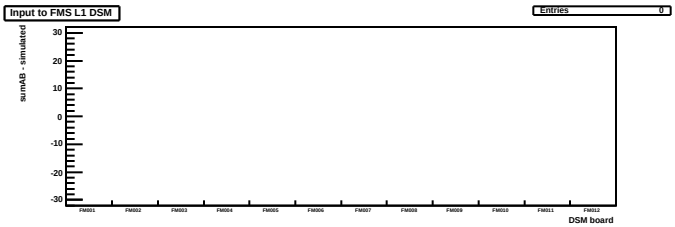

Input to FMS L1 DSM
Entries 2287716
sumBC
DSM board

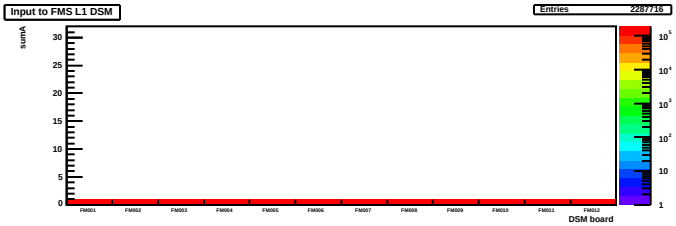

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

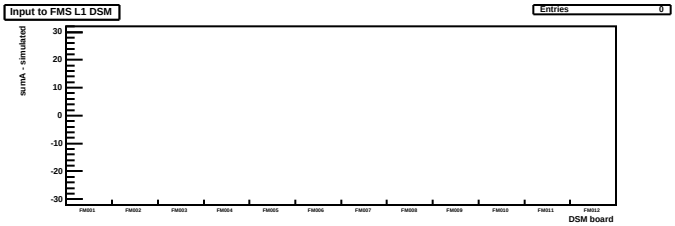

Input to FMS L1 DSM
Entries 2287716
sumB
DSM board

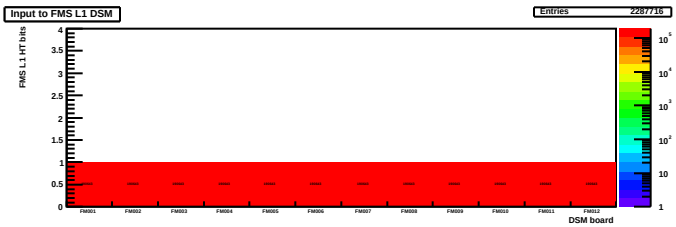

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

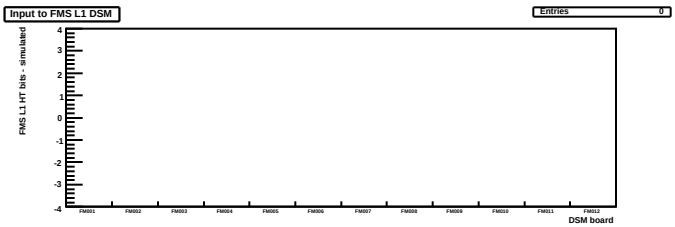

Input to FMS L1 DSM
Entries 2287716
sumAB
DSM board

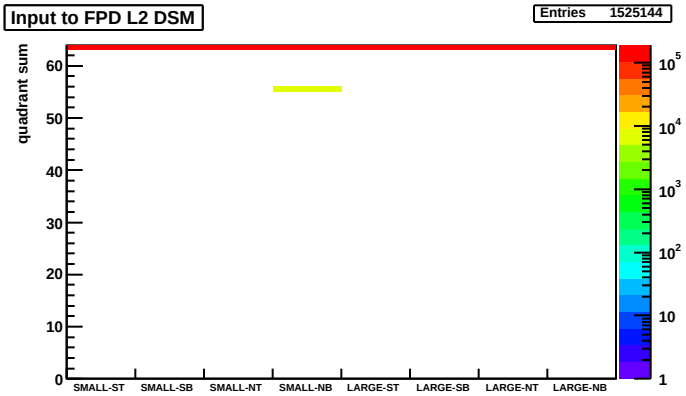

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

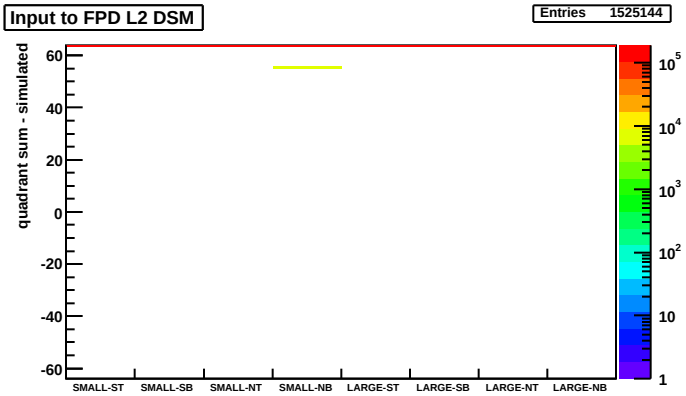

Input to FMS L1 DSM
Entries 2287716
sumA
DSM board

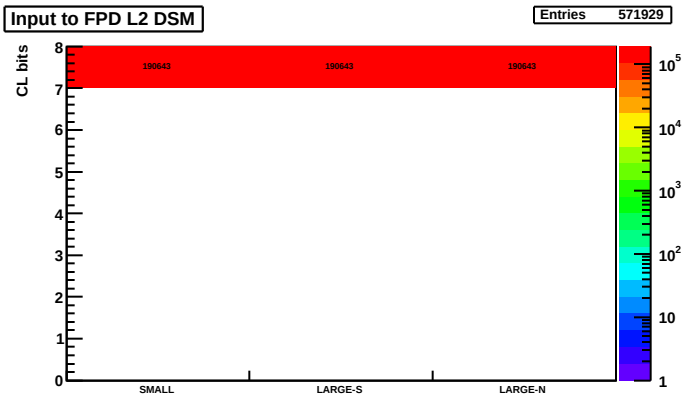

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

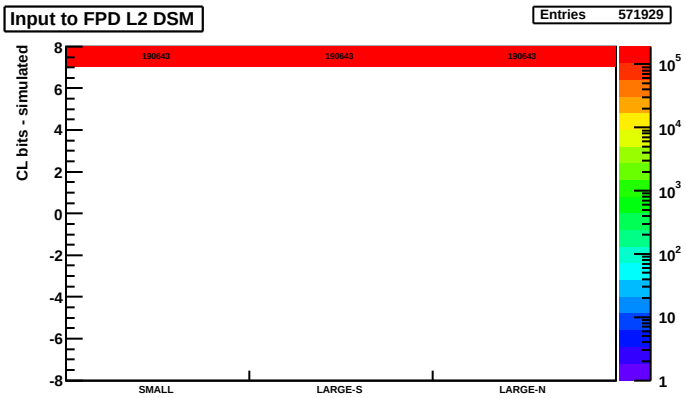

Input to FMS L1 DSM
Entries 2287716
FMS L1 HT bits
DSM board

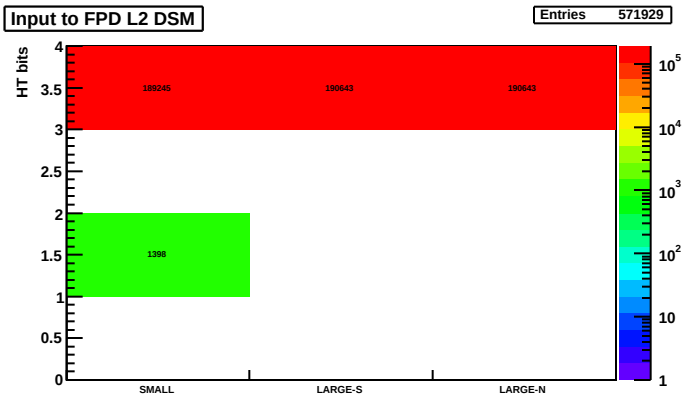

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

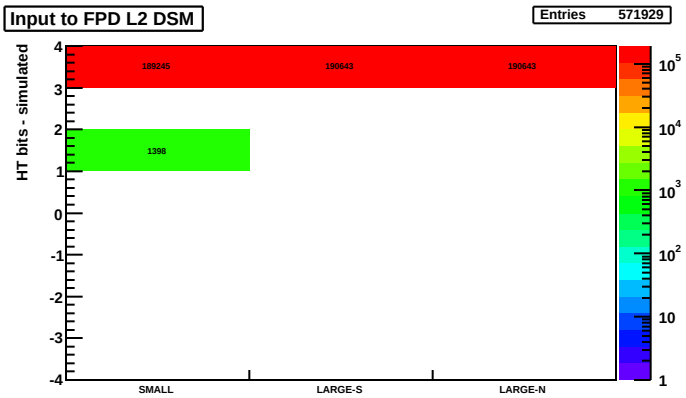

Input to FPD L2 DSM
Entries 1525144
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

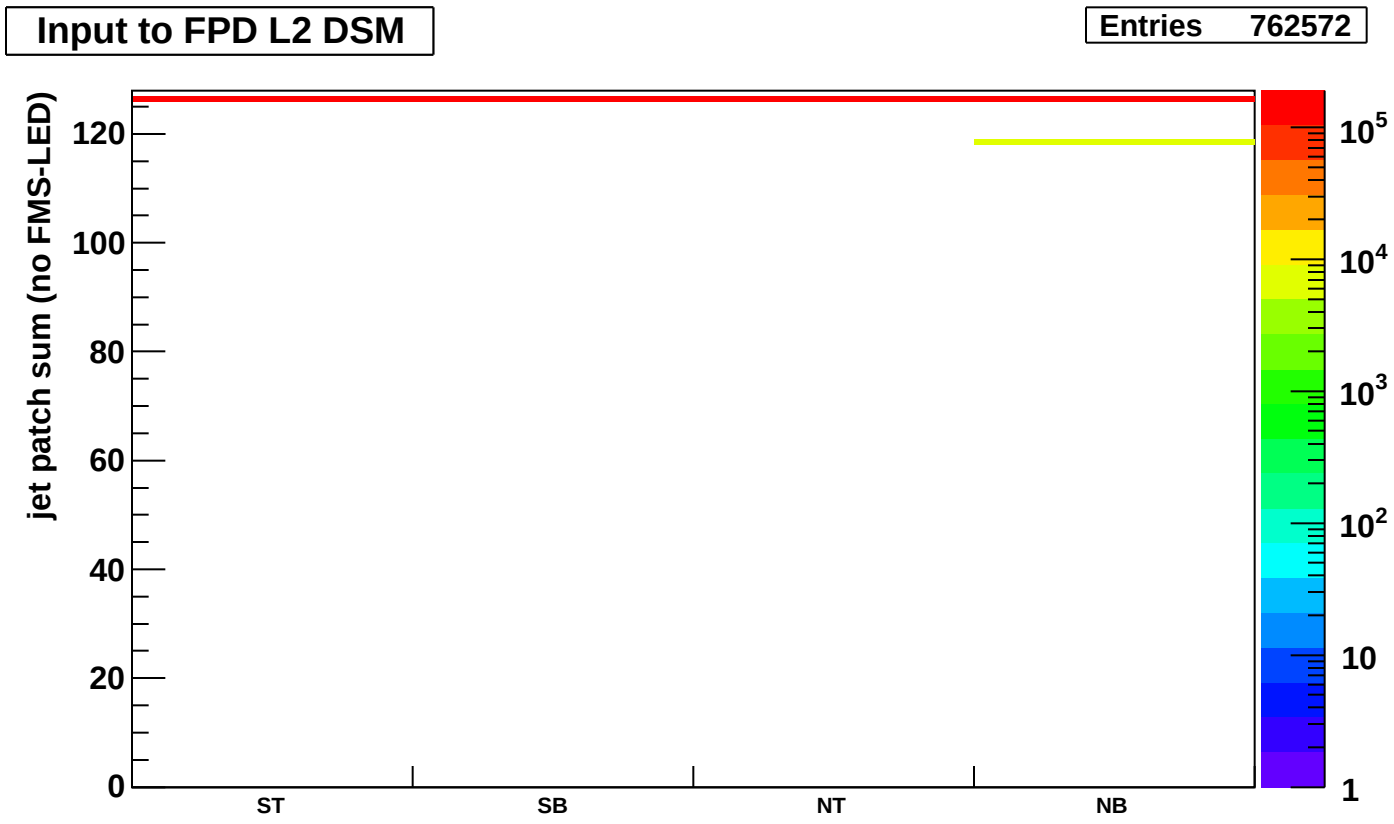

Input to FPD L2 DSM
Entries 1525144
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

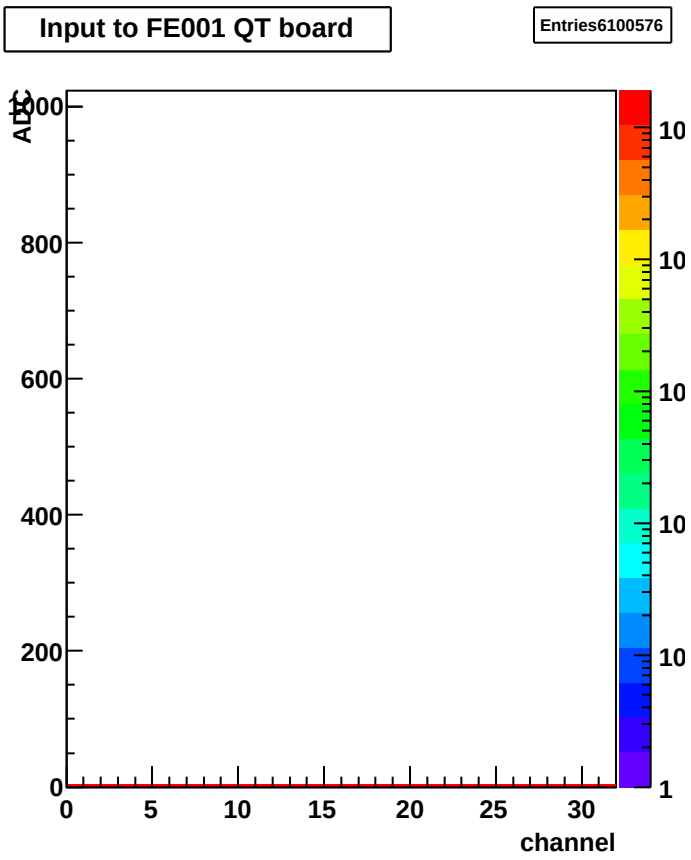

Input to FPD L2 DSM
Entries 571929
CL bits
190643
190643
190643
SMALL
LARGE-S
LARGE-N

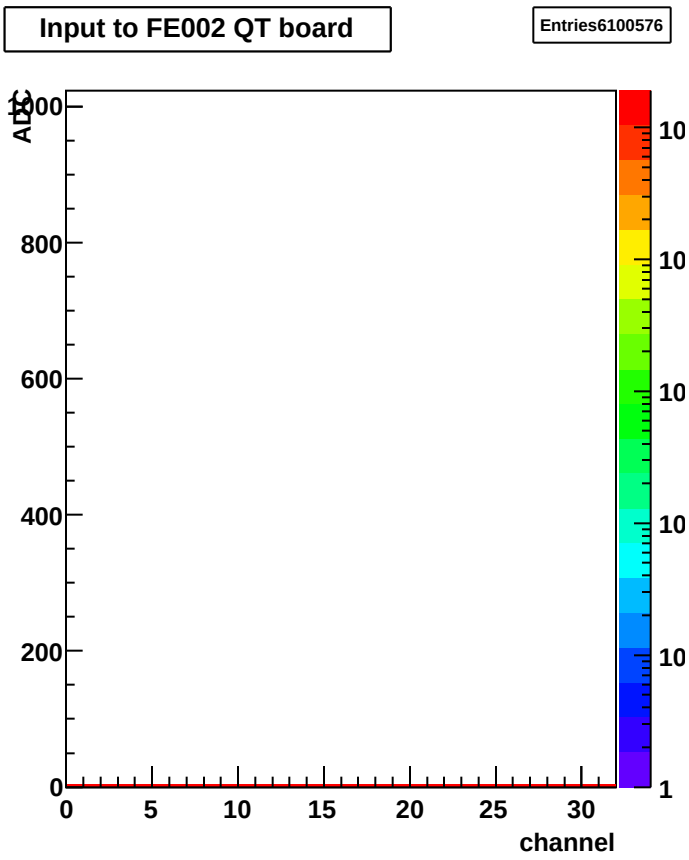

Input to FPD L2 DSM
Entries 571929
CL bits - simulated
190643
190643
190643
SMALL
LARGE-S
LARGE-N

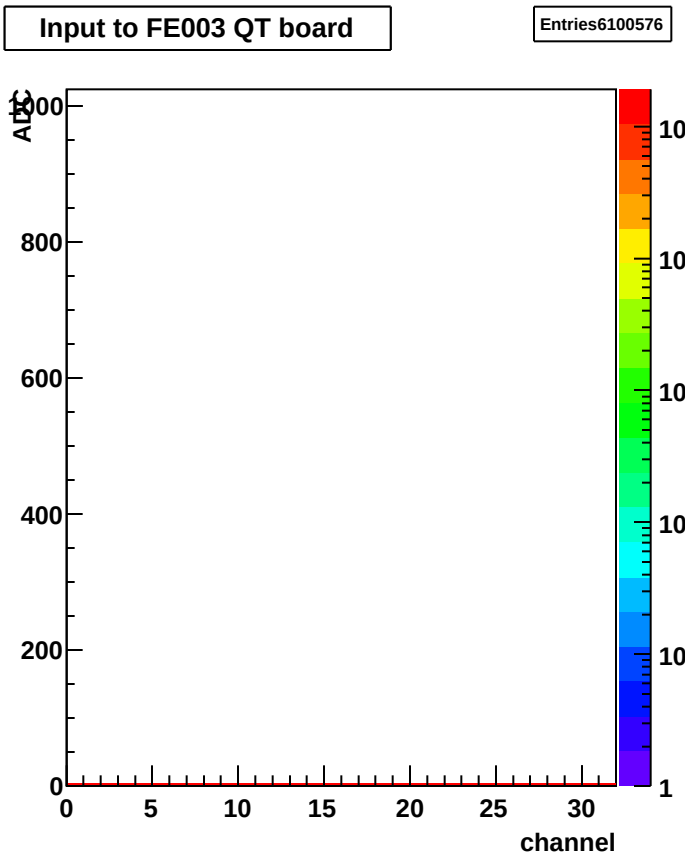

Input to FPD L2 DSM
Entries 571929
HT bits
189245
190643
190643
1398
SMALL
LARGE-S
LARGE-N

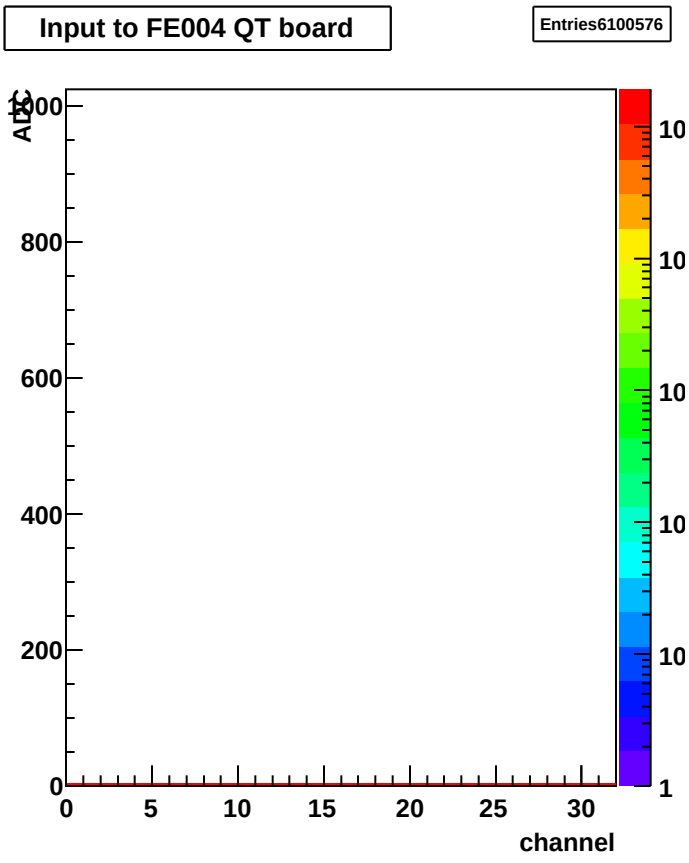

Input to FPD L2 DSM
Entries 571929
HT bits - simulated
189245
190643
190643
1398
SMALL
LARGE-S
LARGE-N

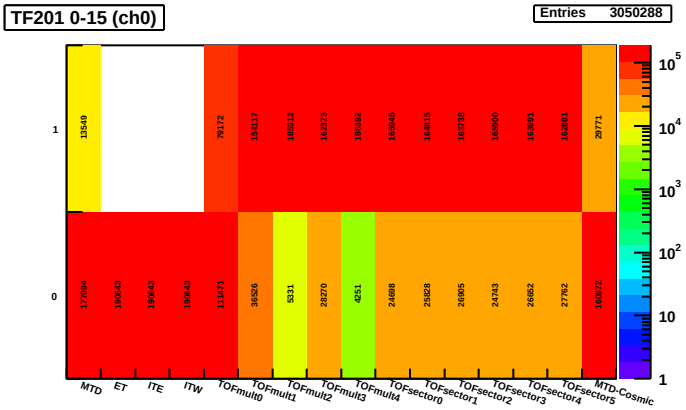

Input to FPD L2 DSM
Entries 762572
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
$10^2$
$10^3$
$10^4$
$10^5$

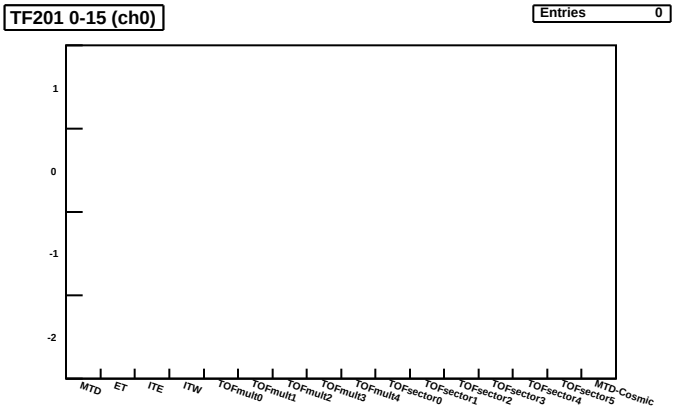

Input to FE001 QT board
Entries6100576
ADC
channel

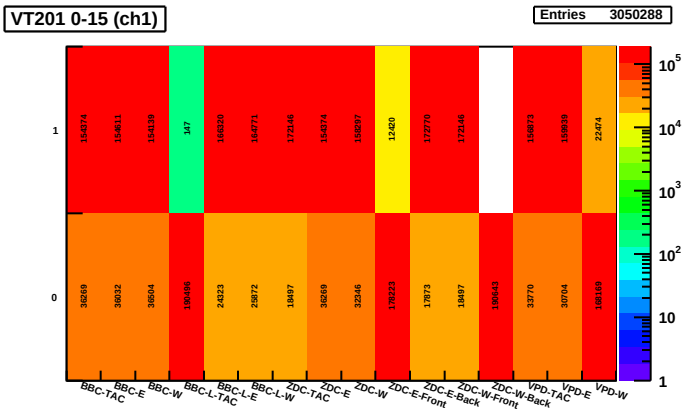

Input to FE002 QT board
Entries6100576
ADC
channel

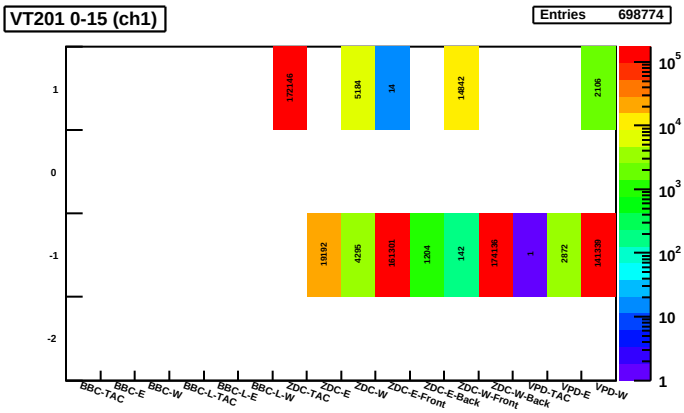

Input to FE003 QT board
Entries6100576
ADC
channel

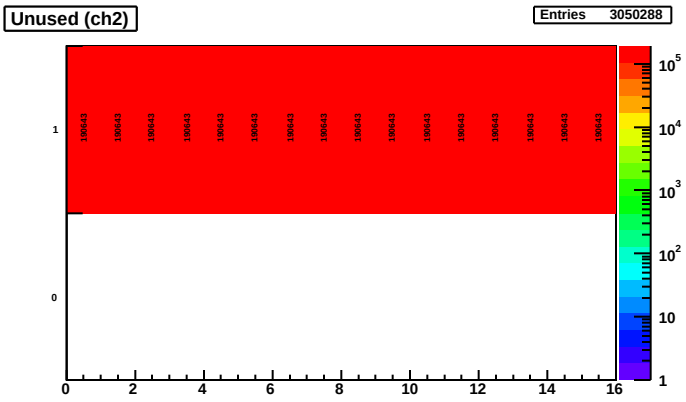

Input to FE004 QT board
Entries6100576
ADC
channel

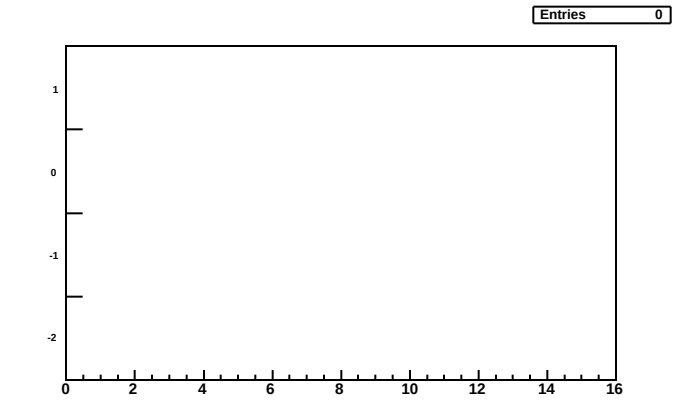

TF201 0-15 (ch0)
Entries 3050288
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

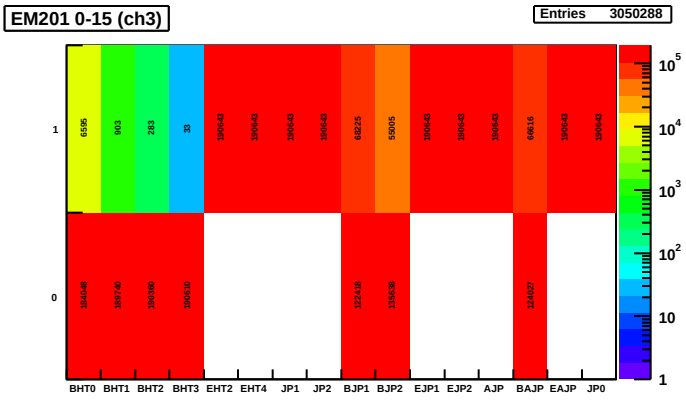

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

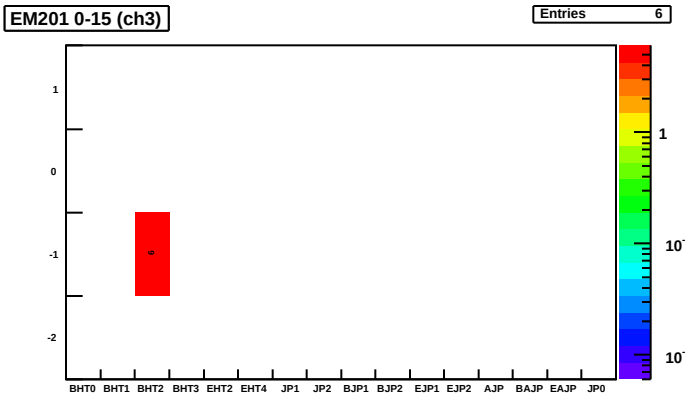

VT201 0-15 (ch1)
Entries 3050288
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 698774
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

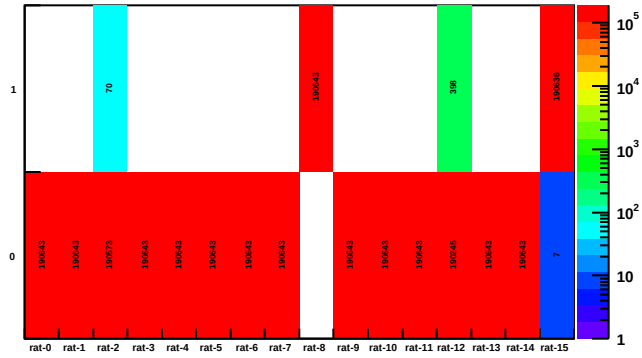

Unused (ch2)
Entries 3050288

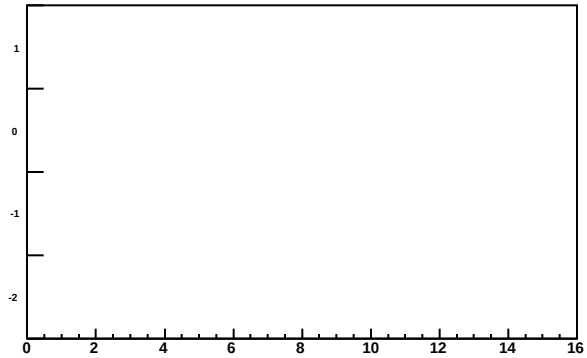

Entries 0


EM201 0-15 (ch3)
Entries 3050288
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

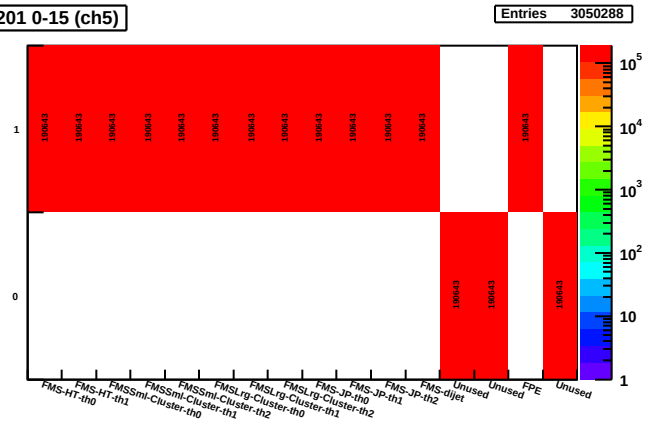

EM201 0-15 (ch3)
Entries 6
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

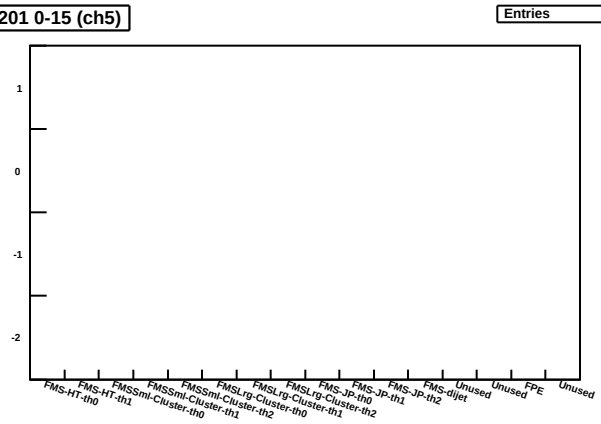


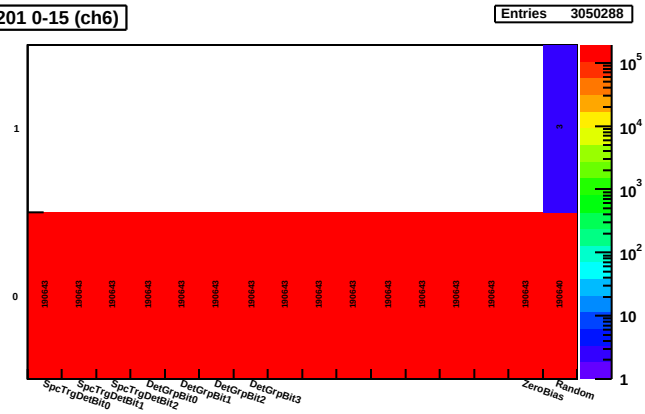

FP201 0-15 (ch5)

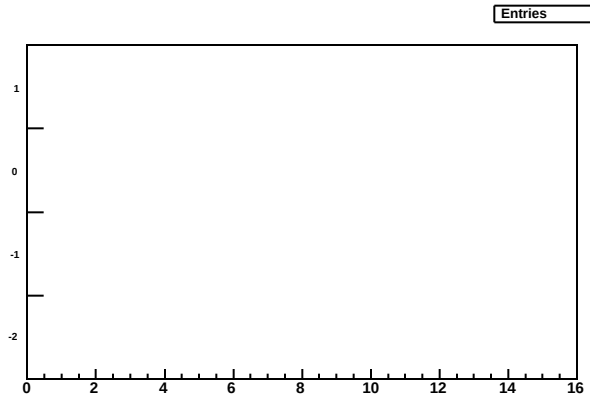


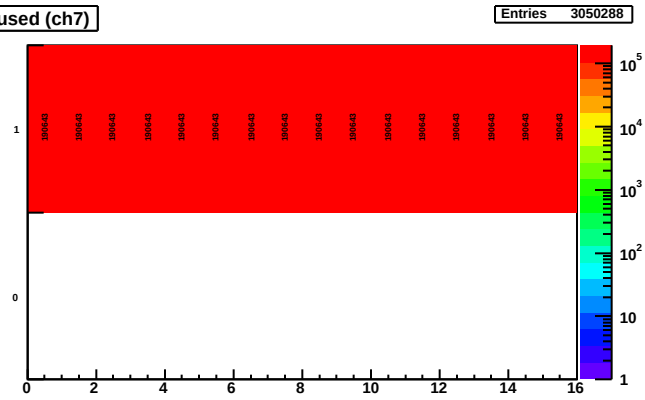
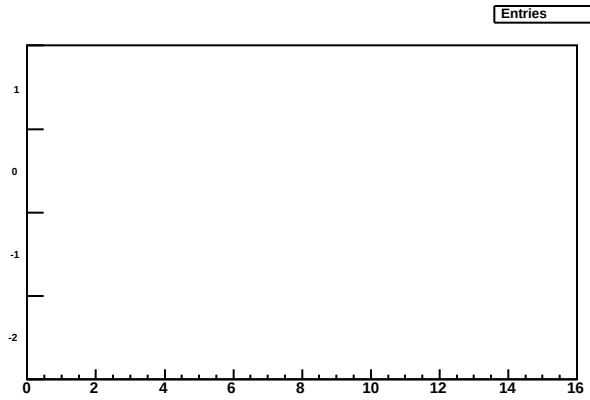

FP201 0-15 (ch5)




ST201 0-15 (ch6)




Unused (ch7)