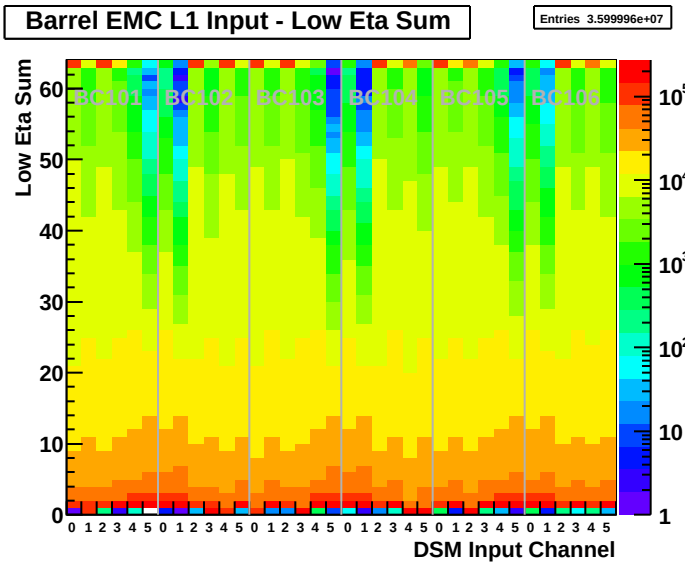
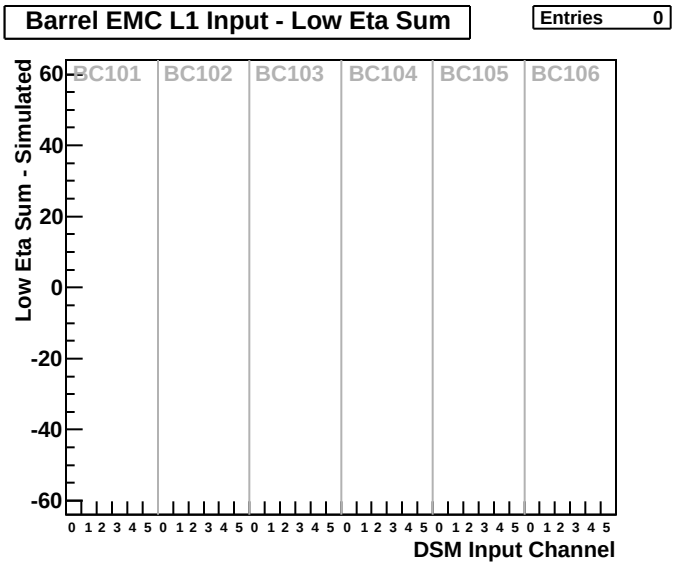
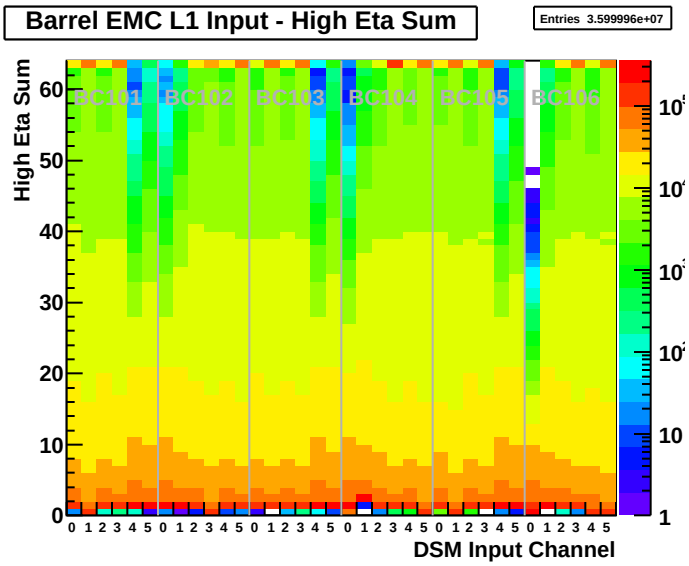
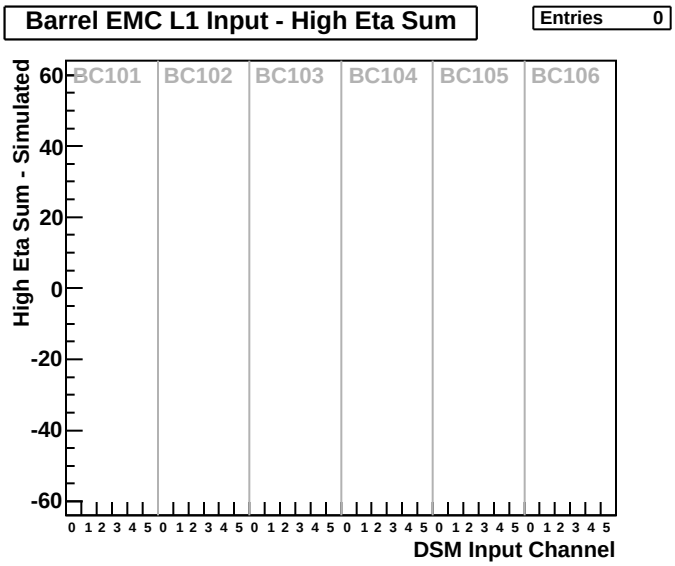
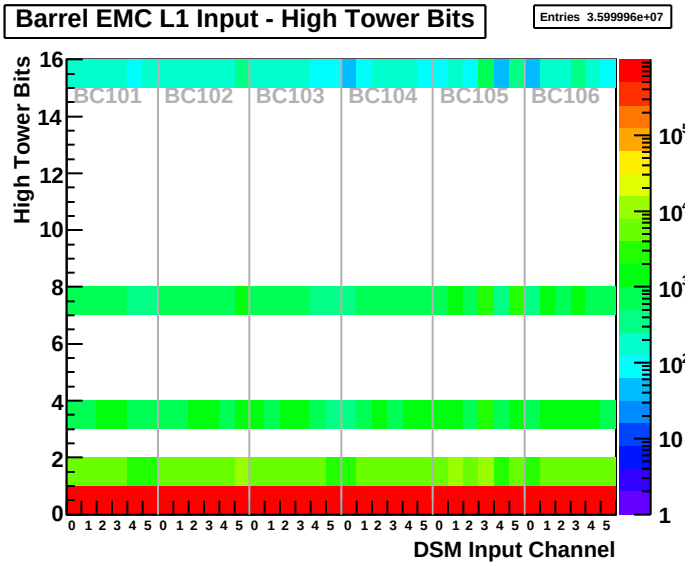
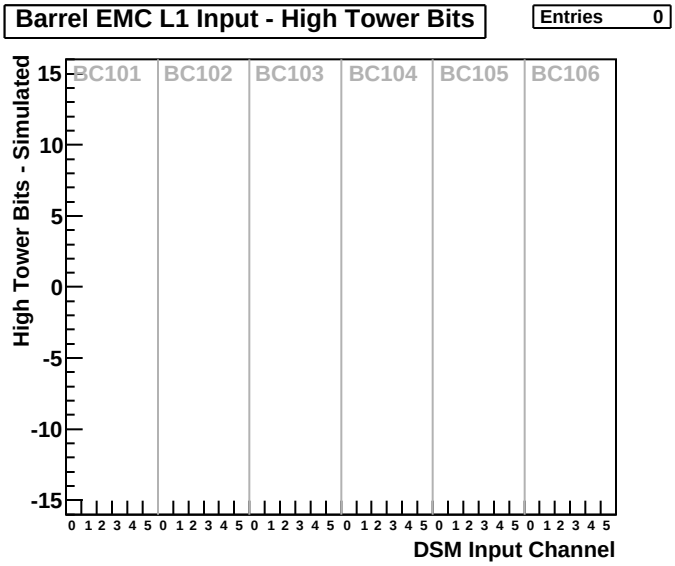

Barrel EMC L1 Input - Low Eta Sum
Entries 3.599996e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

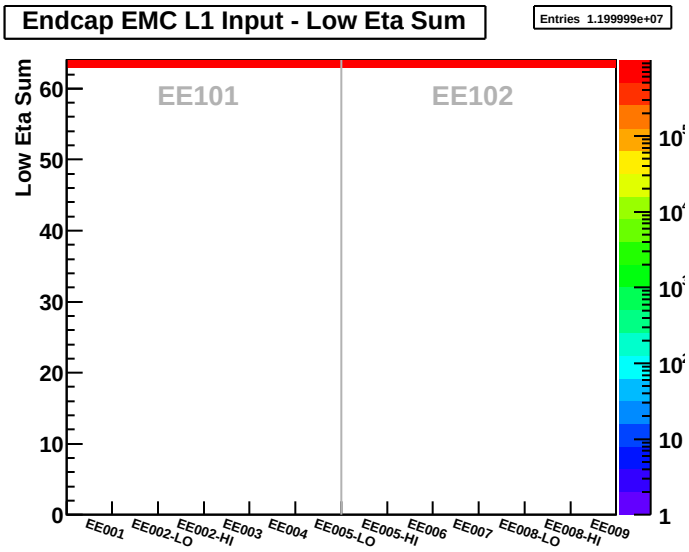

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

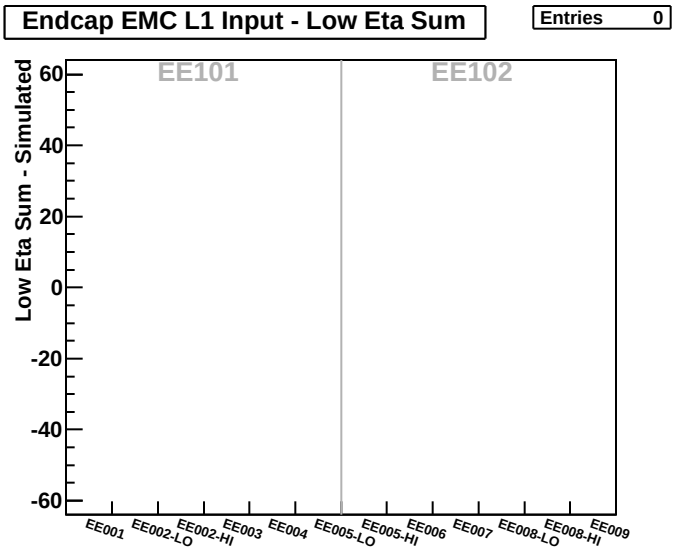

Barrel EMC L1 Input - High Eta Sum
Entries 3.599996e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

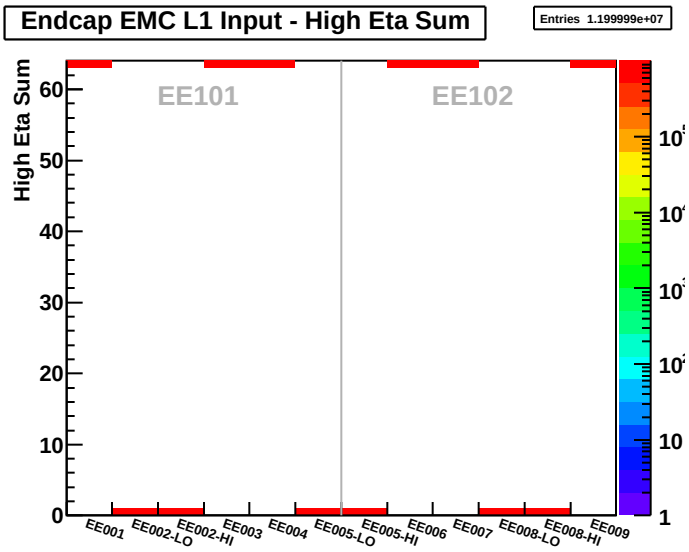

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

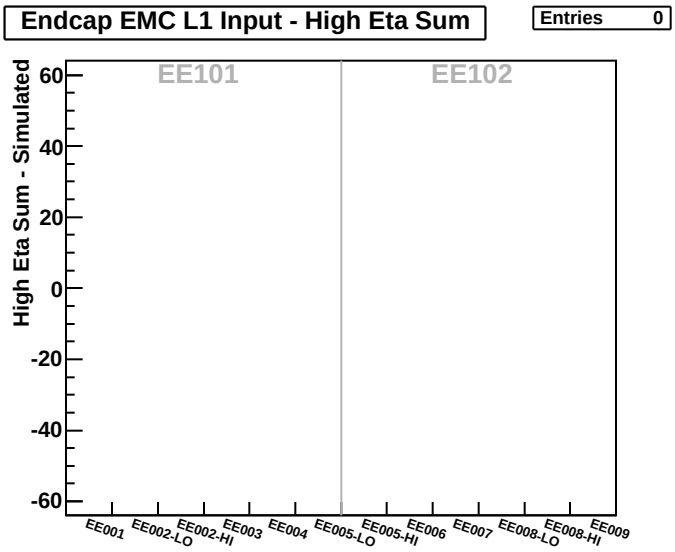

Barrel EMC L1 Input - High Tower Bits
Entries 3.599996e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

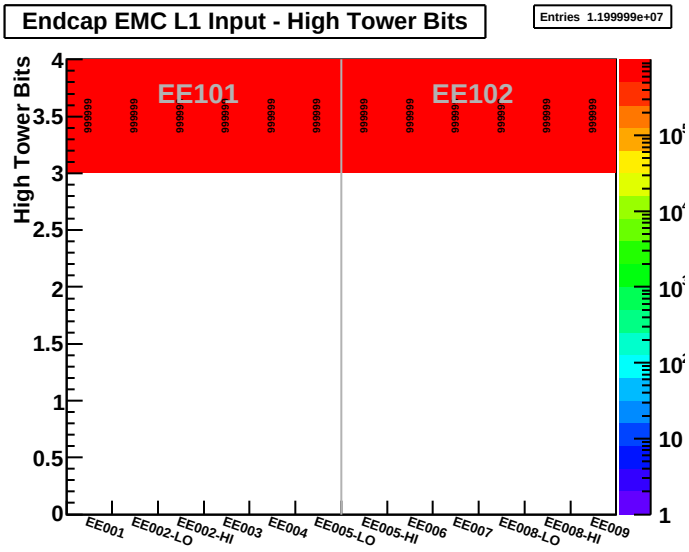

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

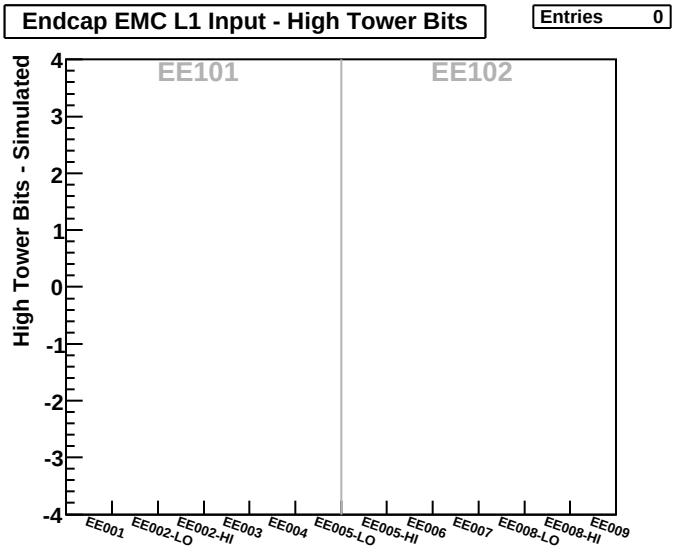

Endcap EMC L1 Input - Low Eta Sum
Entries 1.199999e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

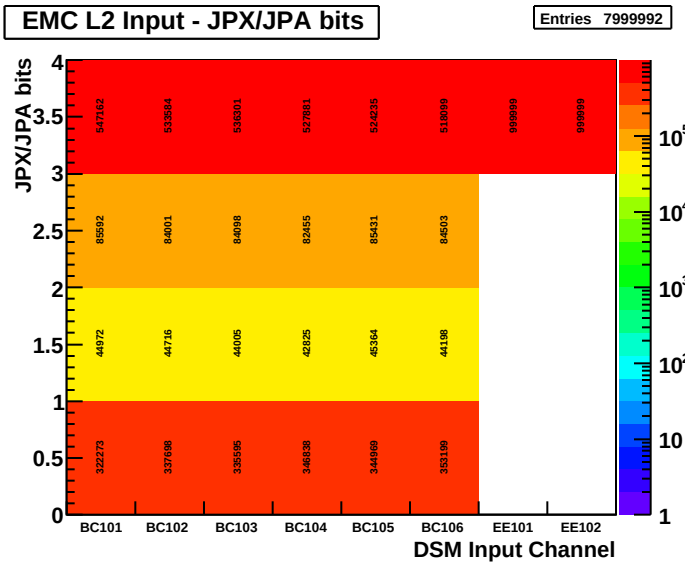

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

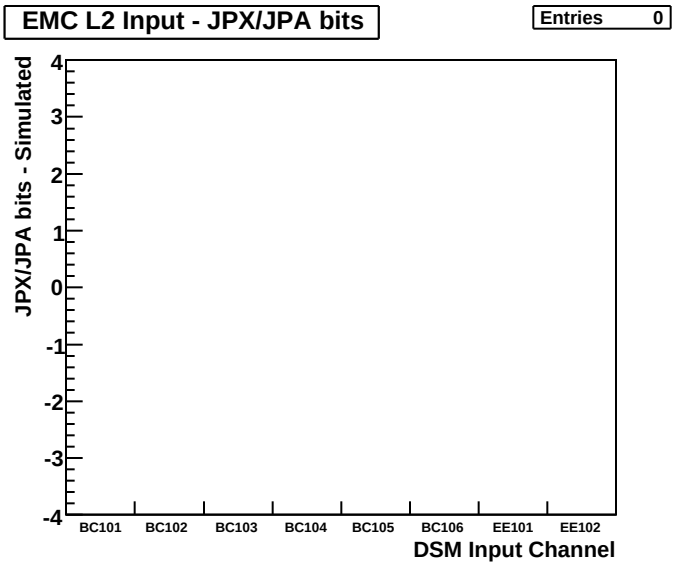

Endcap EMC L1 Input - High Eta Sum
Entries 1.199999e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

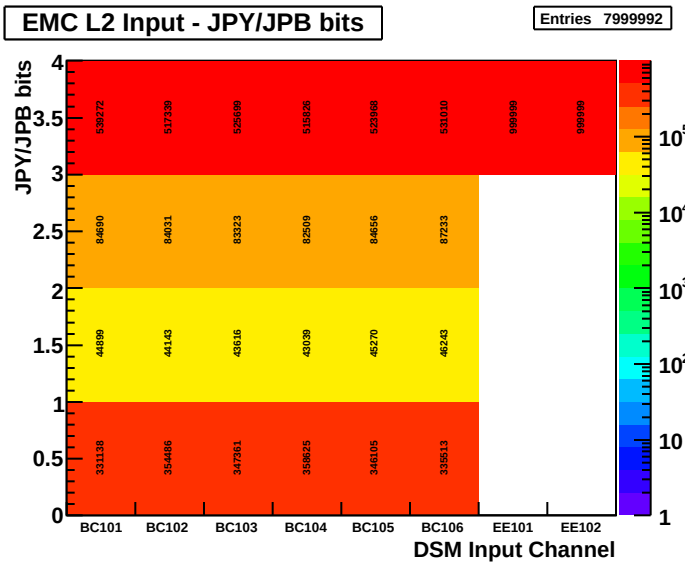

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

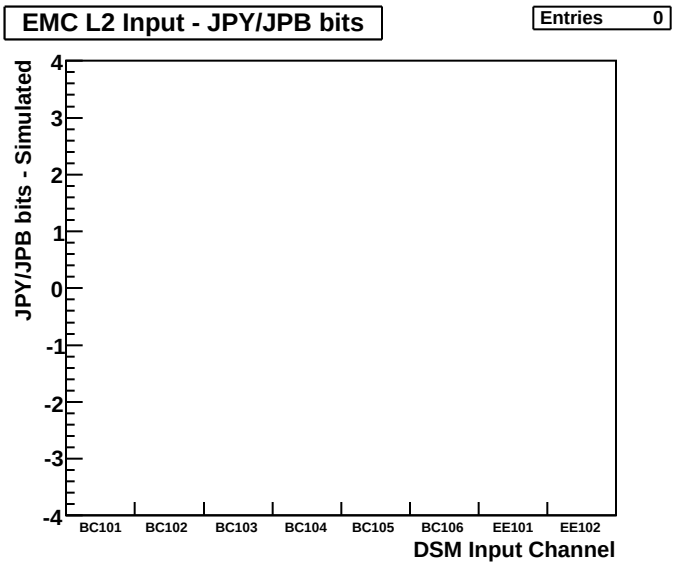

Endcap EMC L1 Input - High Tower Bits
Entries 1.199999e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

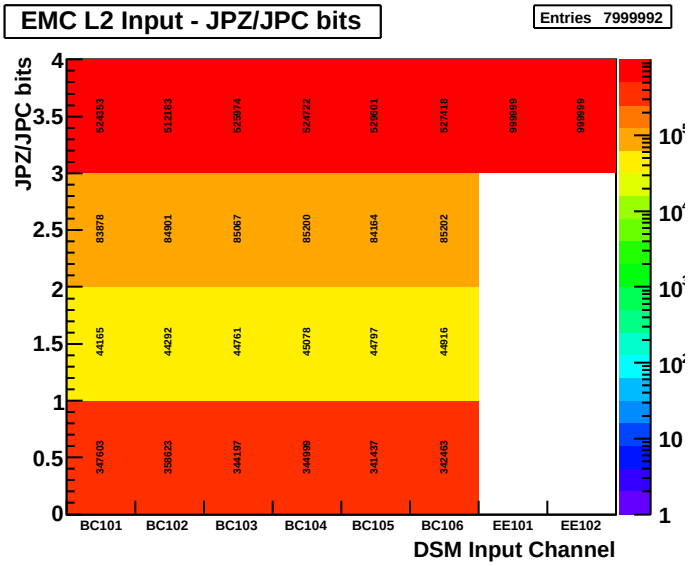

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

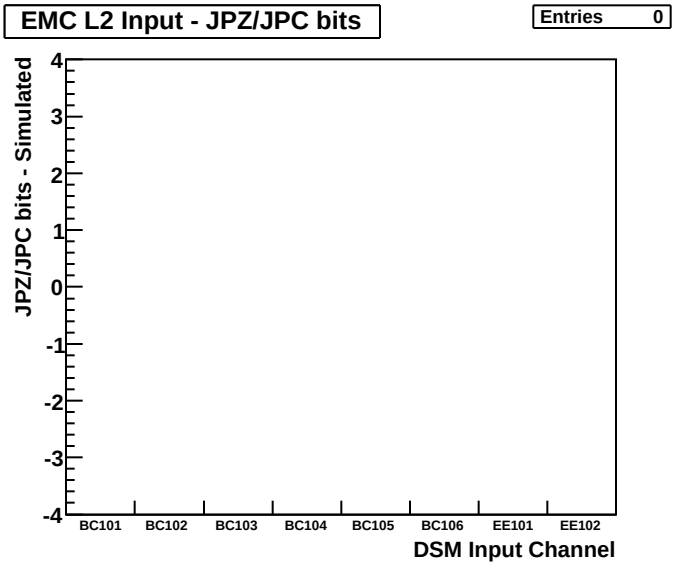

EMC L2 Input - JPX/JPA bits
Entries 7999992
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
547162 533684 536301 527681 524235 518099 999999 999999
85592 84001 84098 82455 85431 84503
44972 44716 44005 42825 45364 44198
322273 337698 335595 346838 344969 353199

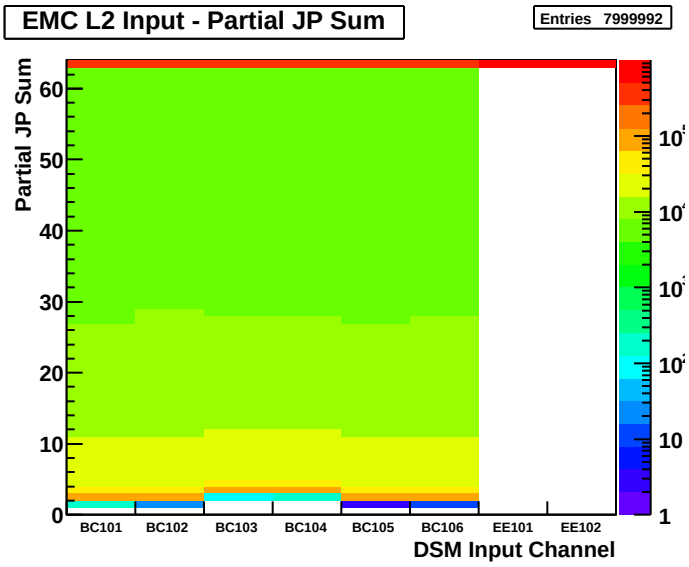

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

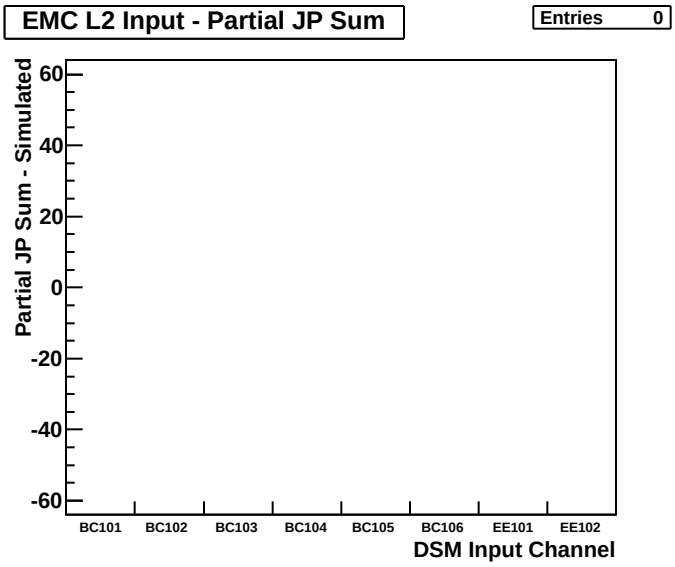

EMC L2 Input - JPY/JPB bits
Entries 7999992
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
538272 517339 525689 515826 523968 531010 999999 999999
84690 84031 83323 82509 84656 87233
44899 44143 43616 43039 45270 46243
331138 354486 347361 358625 346105 335513

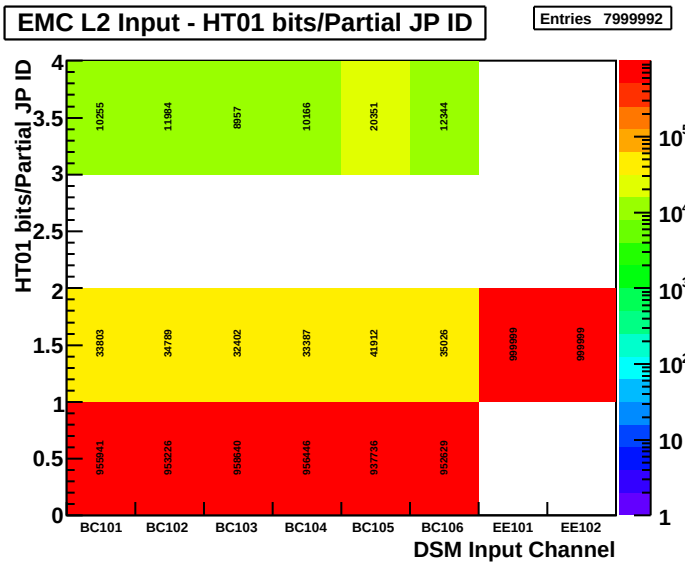

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

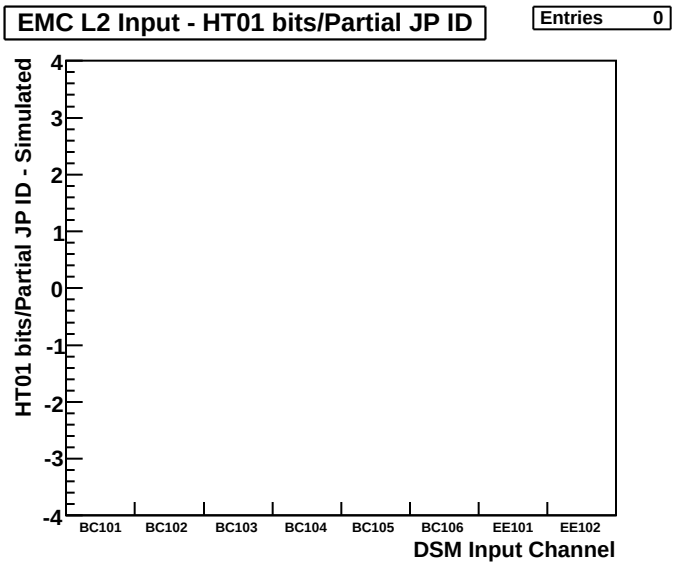

EMC L2 Input - JPZ/JPC bits
Entries 7999992
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
524353 512183 528974 524722 529601 527418 999999 999999
83878 84901 85067 85200 84164 85202
44165 44292 44761 45078 44797 44916
347603 358623 344197 344999 341437 342463

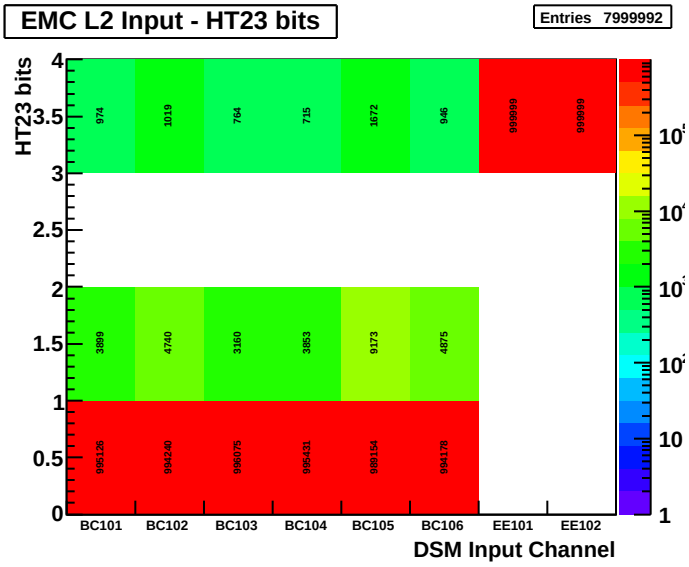

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

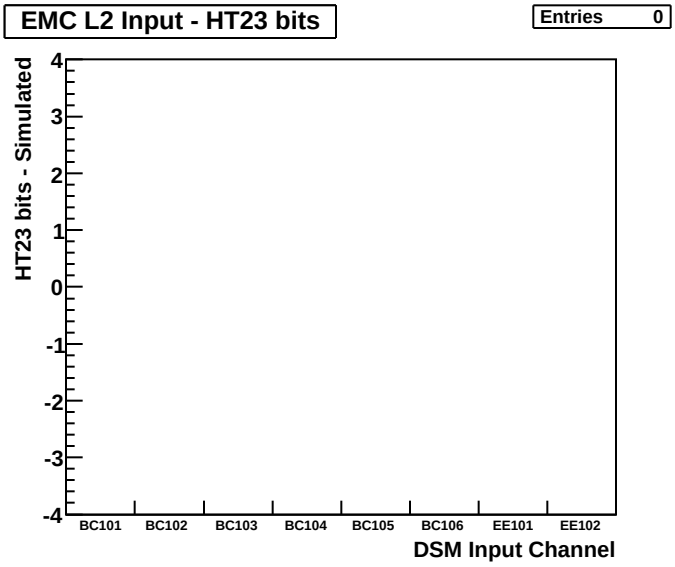

EMC L2 Input - Partial JP Sum
Entries 7999992
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

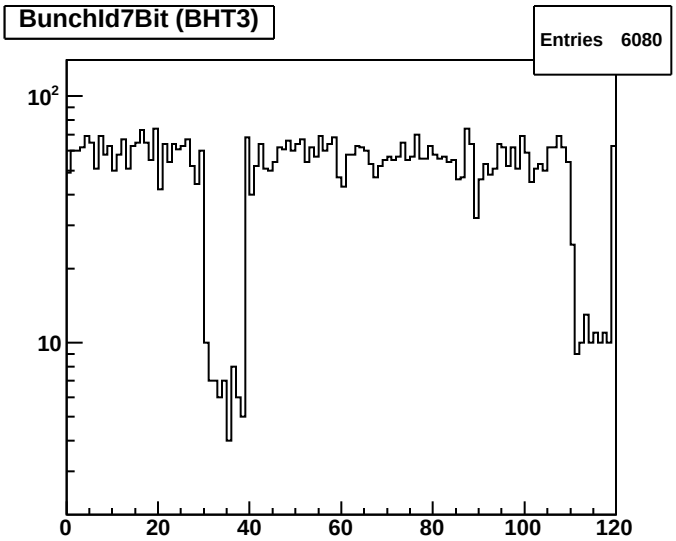

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

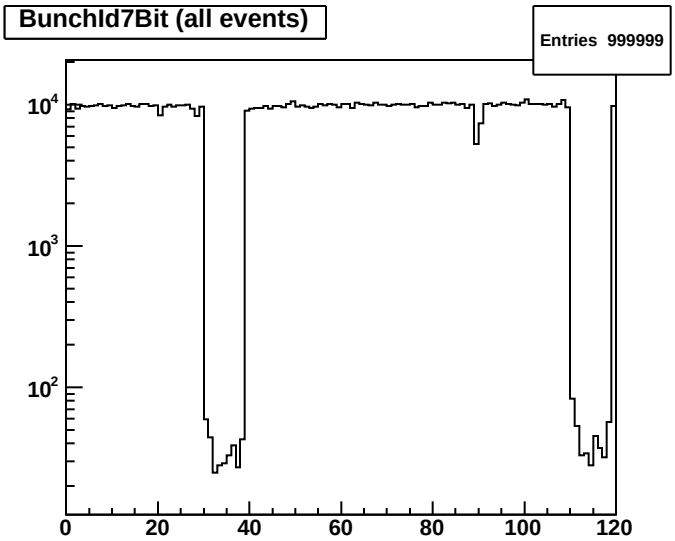

EMC L2 Input - HT01 bits/Partial JP ID
Entries 7999992
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

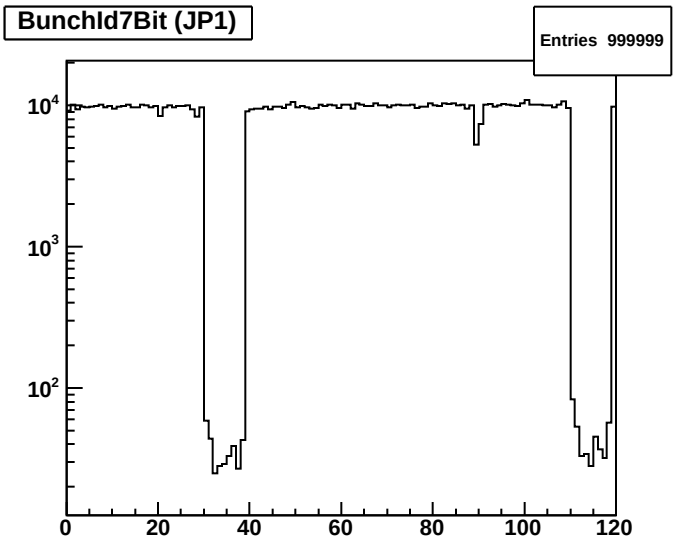

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

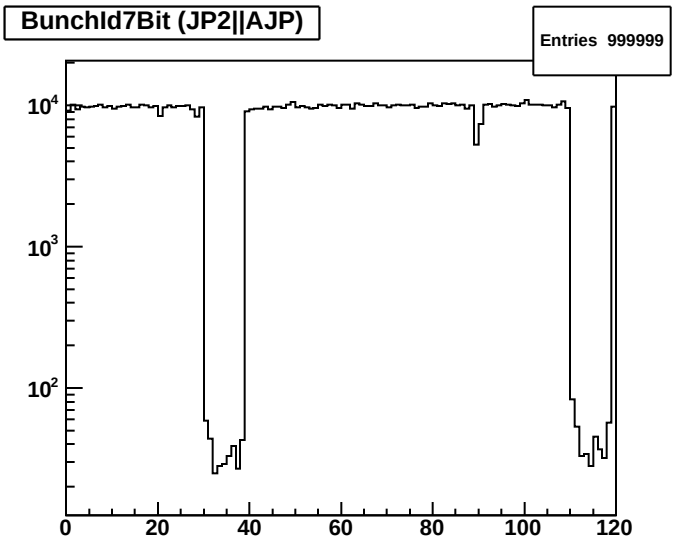

EMC L2 Input - HT23 bits
Entries 7999992
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

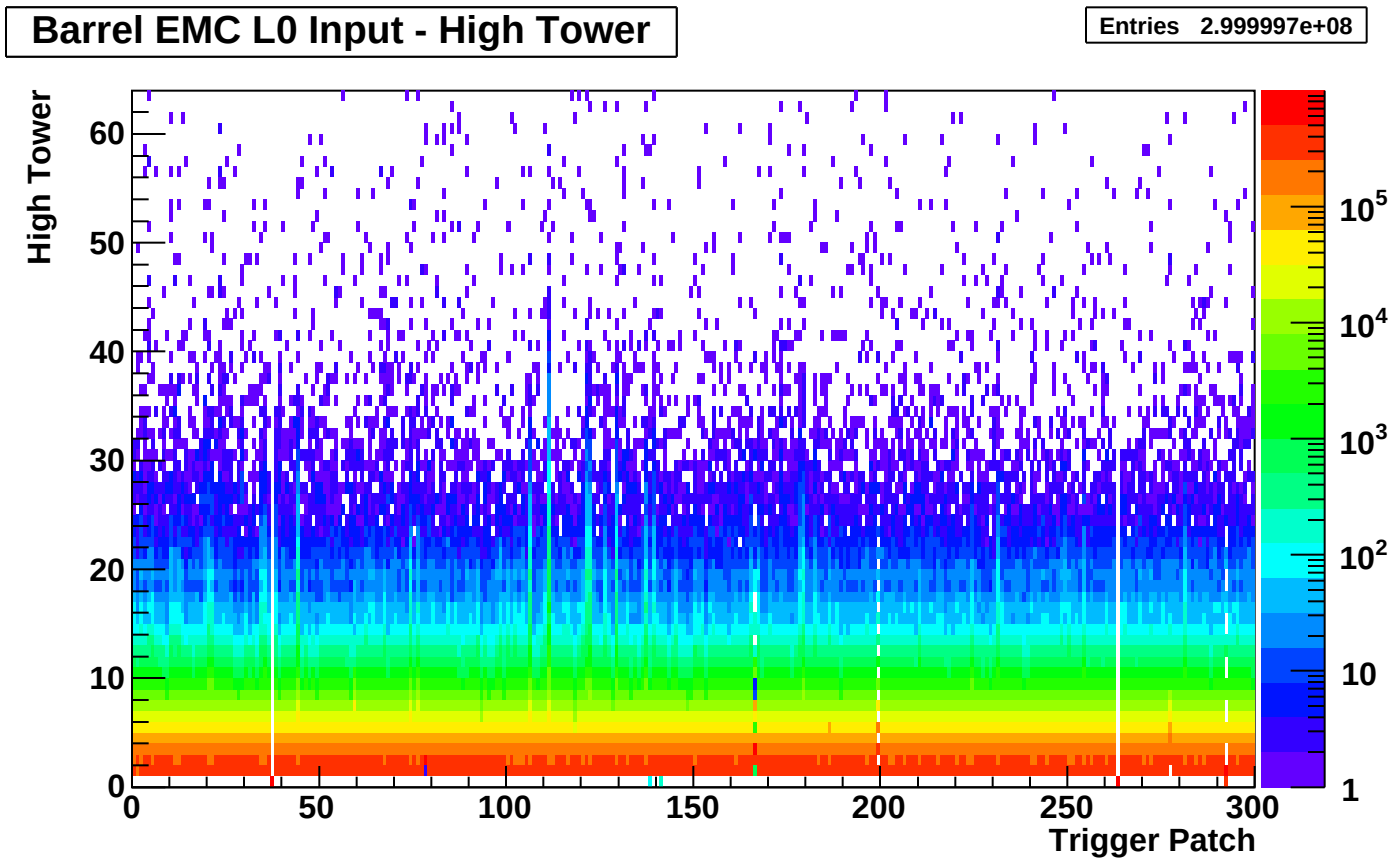

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

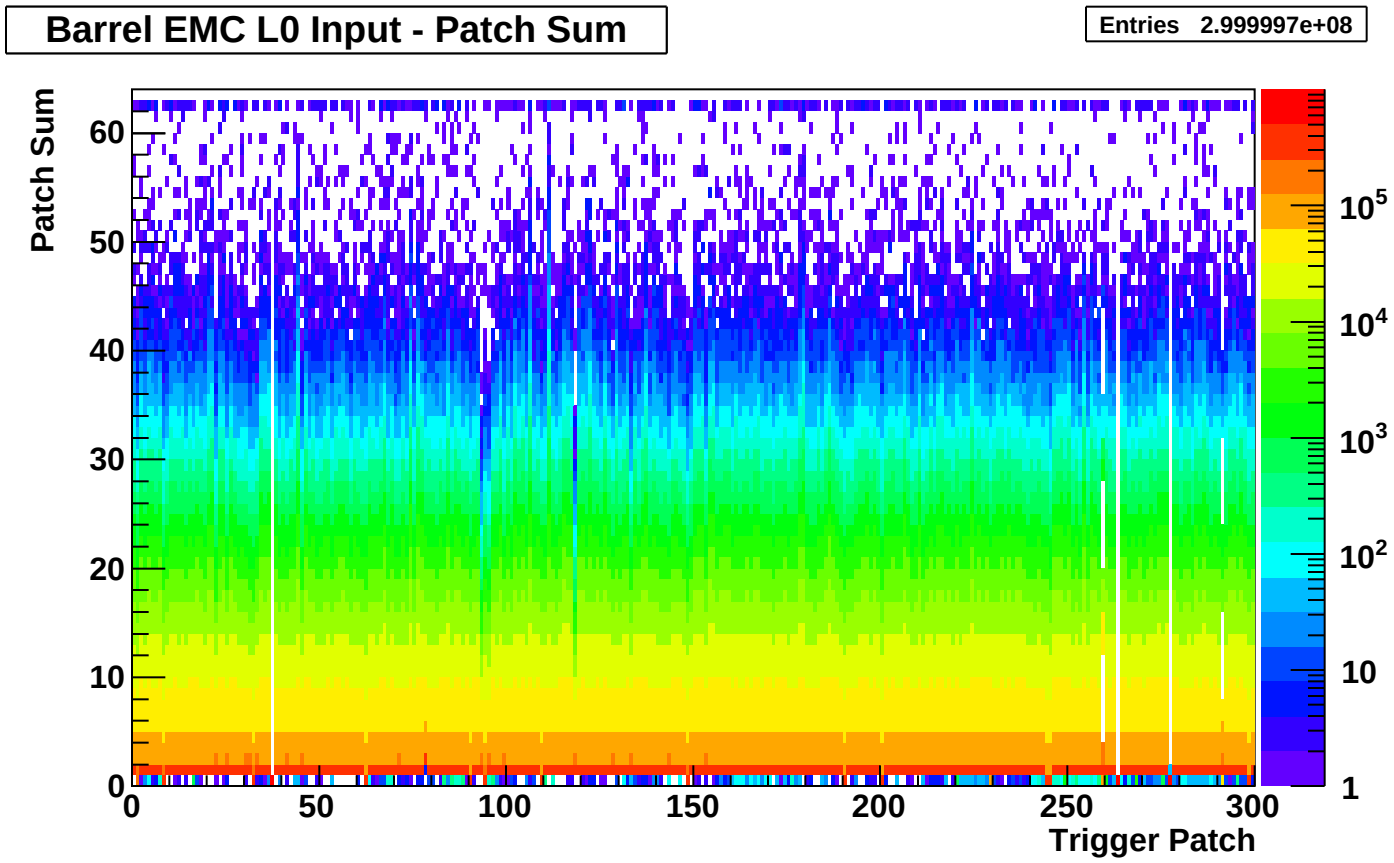

BunchId7Bit (BHT3)
Entries 6080
$10^2$
10
0
20
40
60
80
100
120

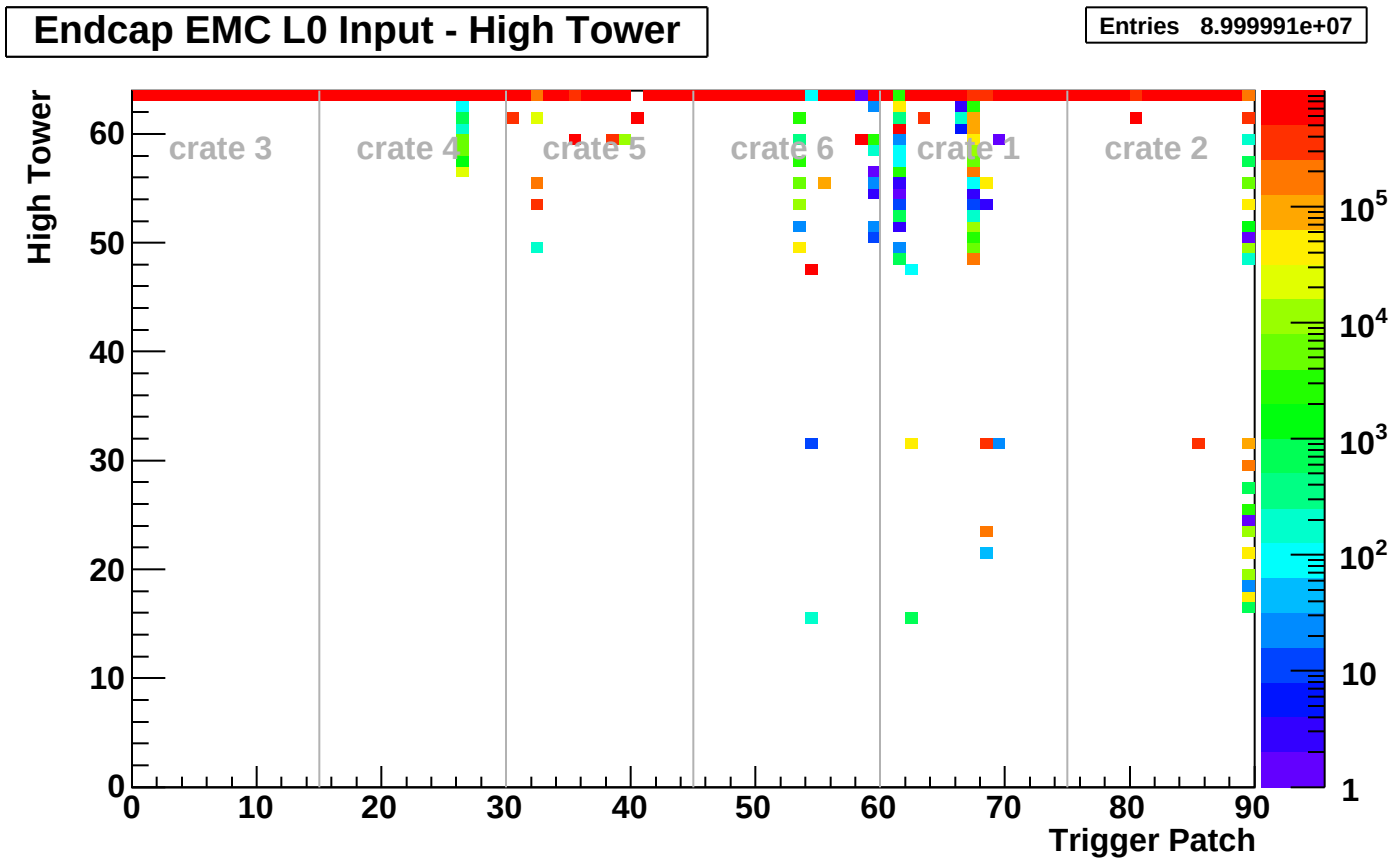

BunchId7Bit (all events)
Entries 999999
$10^4$
$10^3$
$10^2$
0
20
40
60
80
100
120

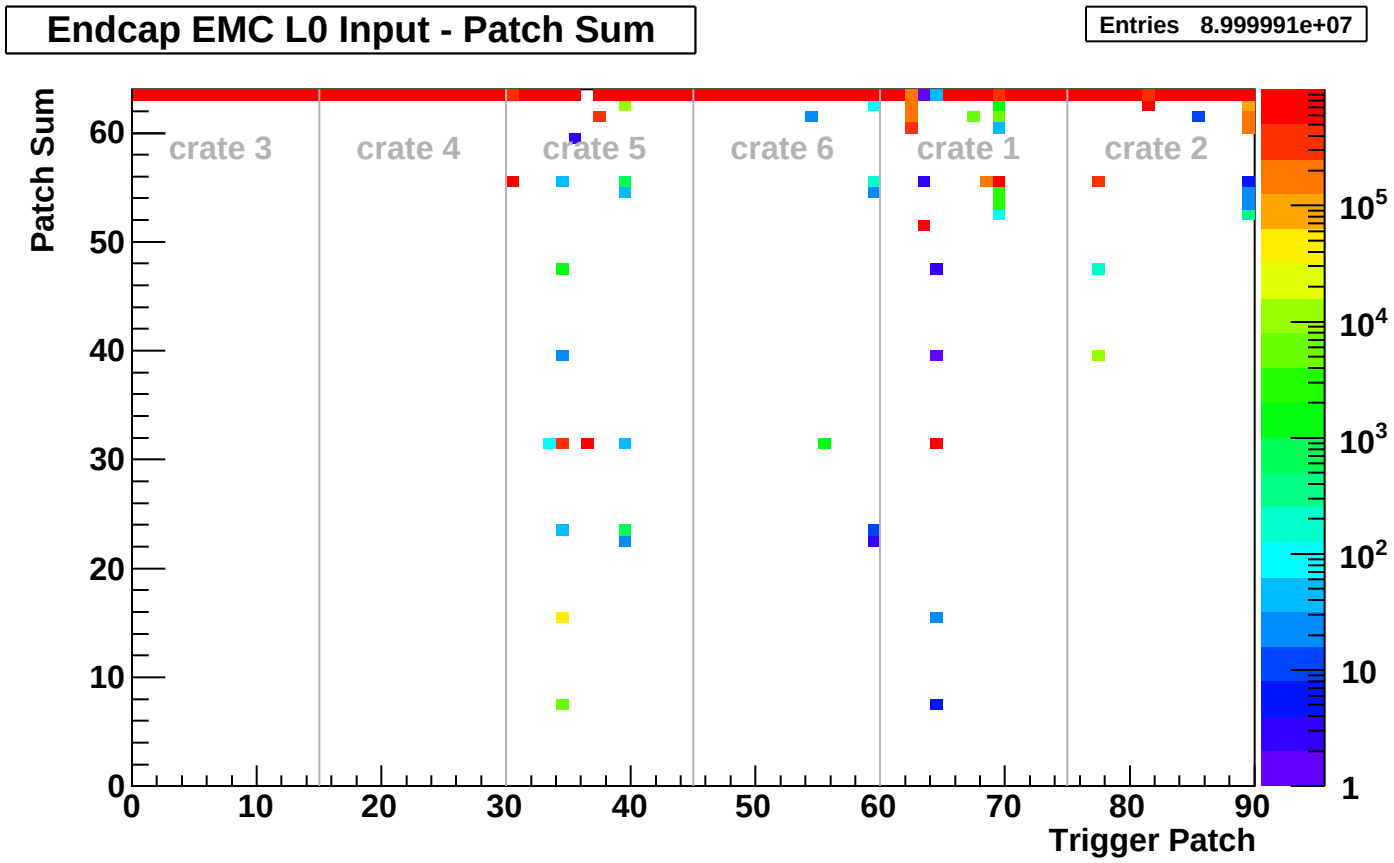

BunchId7Bit (JP1)
Entries 999999
$10^4$
$10^3$
$10^2$
0
20
40
60
80
100
120

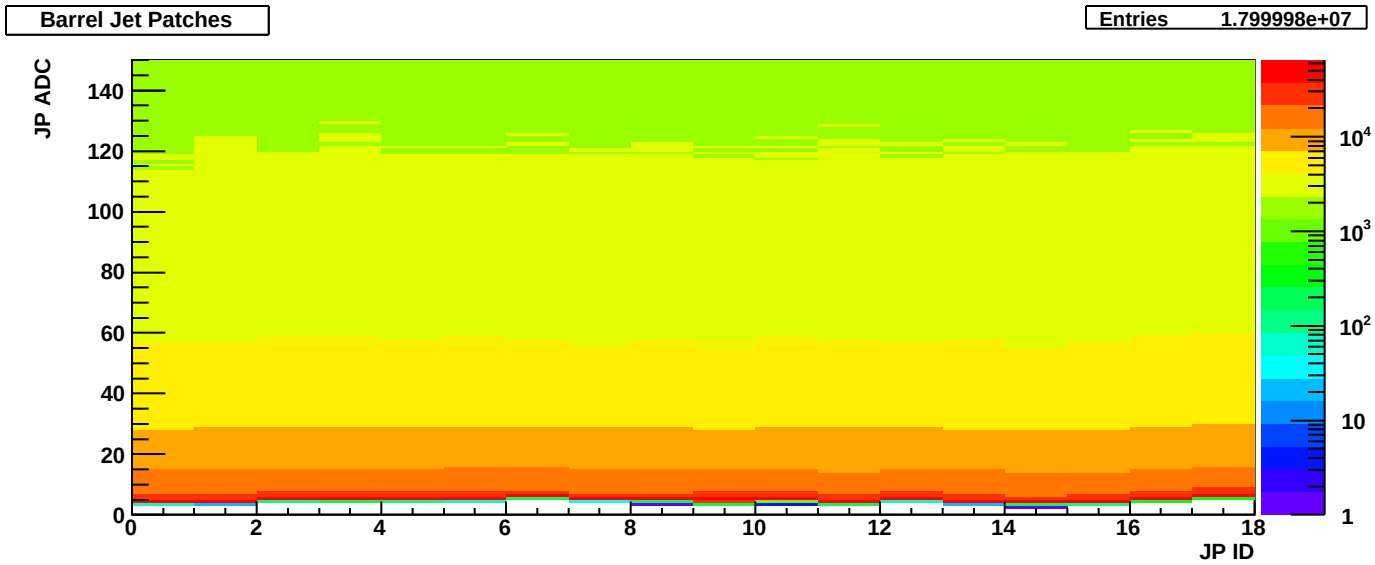

BunchId7Bit (JP2||AJP)
Entries 999999
$10^4$
$10^3$
$10^2$
0
20
40
60
80
100
120

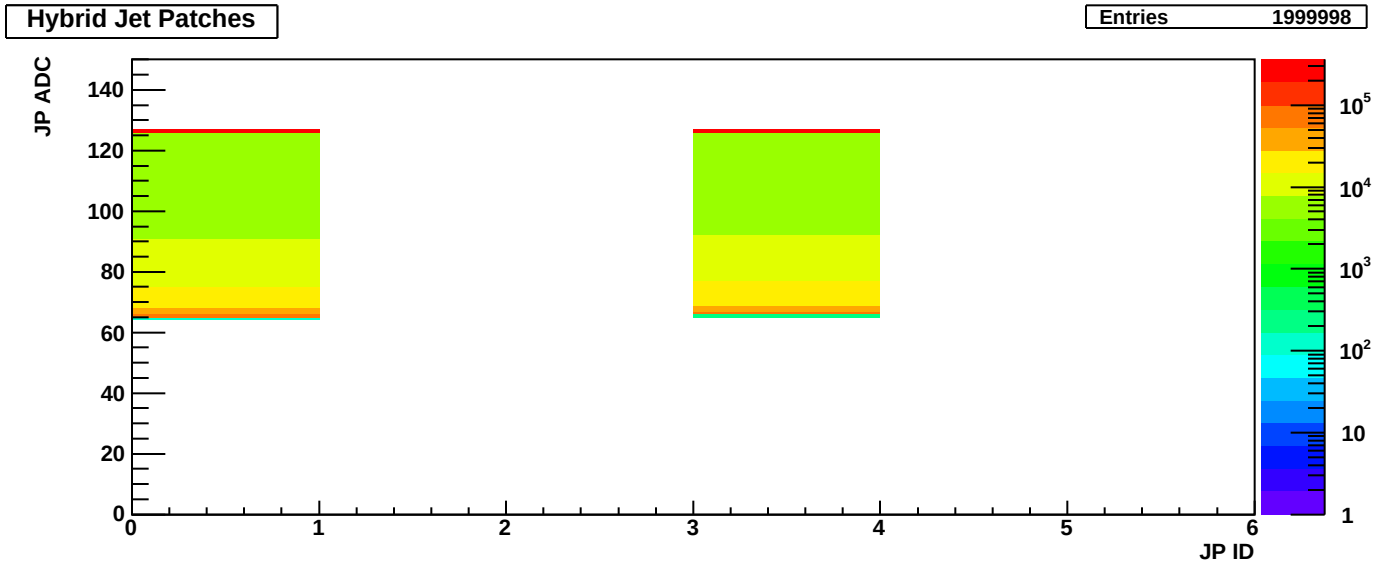

Barrel EMC L0 Input - High Tower
Entries 2.999997e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

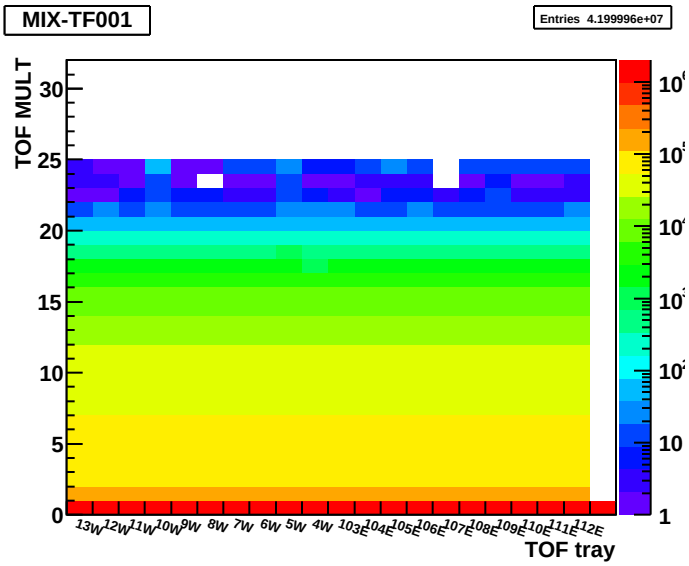

Barrel EMC L0 Input - Patch Sum
Entries 2.999997e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
$10^2$
$10^3$
$10^4$
$10^5$

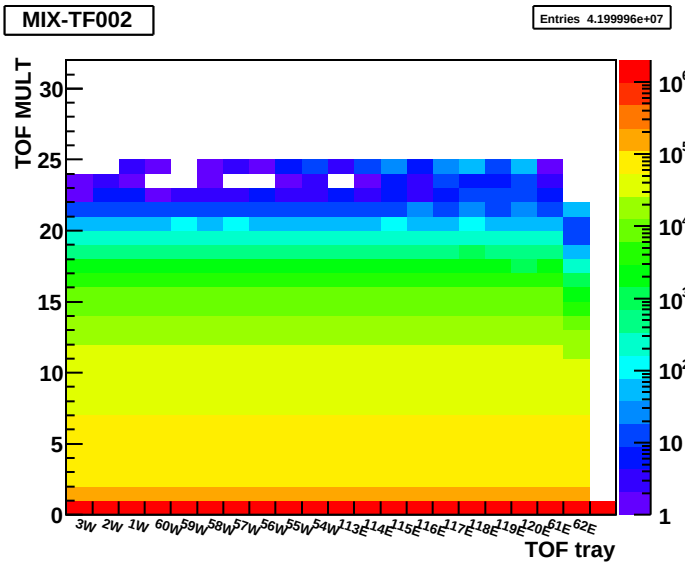

Endcap EMC L0 Input - High Tower
Entries 8.999991e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

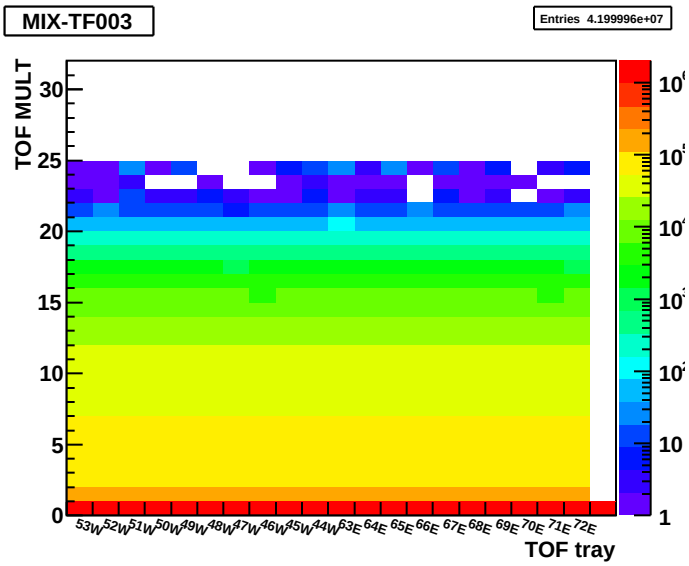

Endcap EMC L0 Input - Patch Sum
Entries 8.999991e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

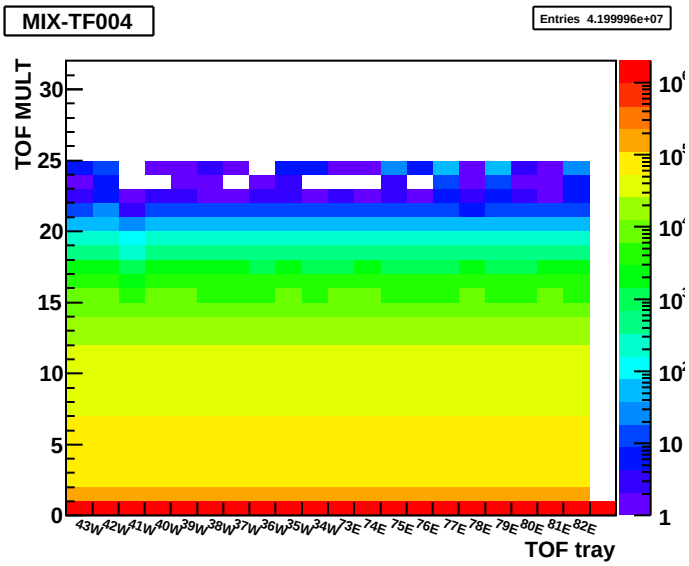

Barrel Jet Patches
Entries 1.799998e+07
JP ADC
JP ID

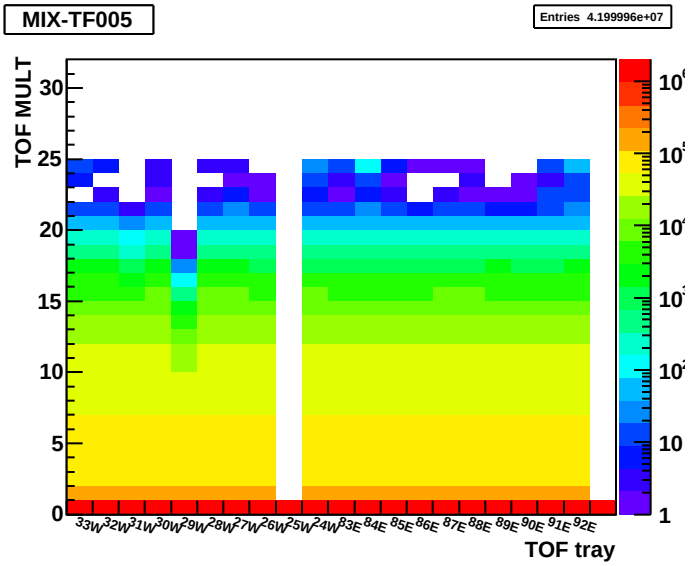

Hybrid Jet Patches
Entries 1999998
JP ADC
JP ID

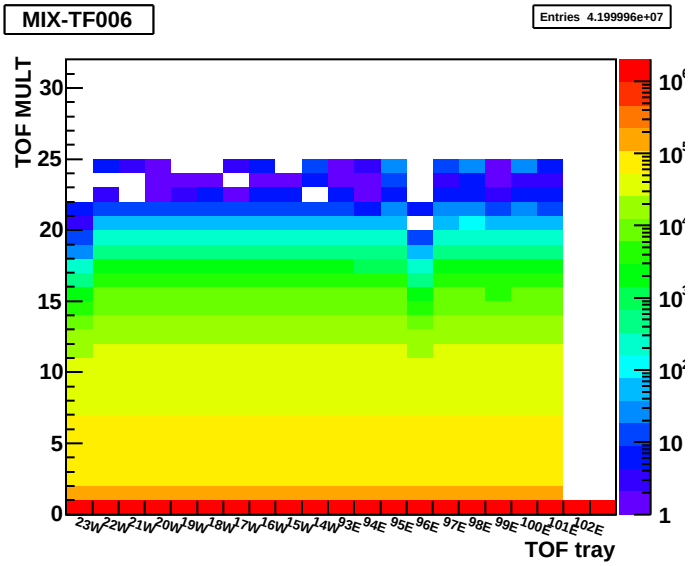

MIX-TF001
Entries 4.199996e+07
TOF MULT
TOF tray

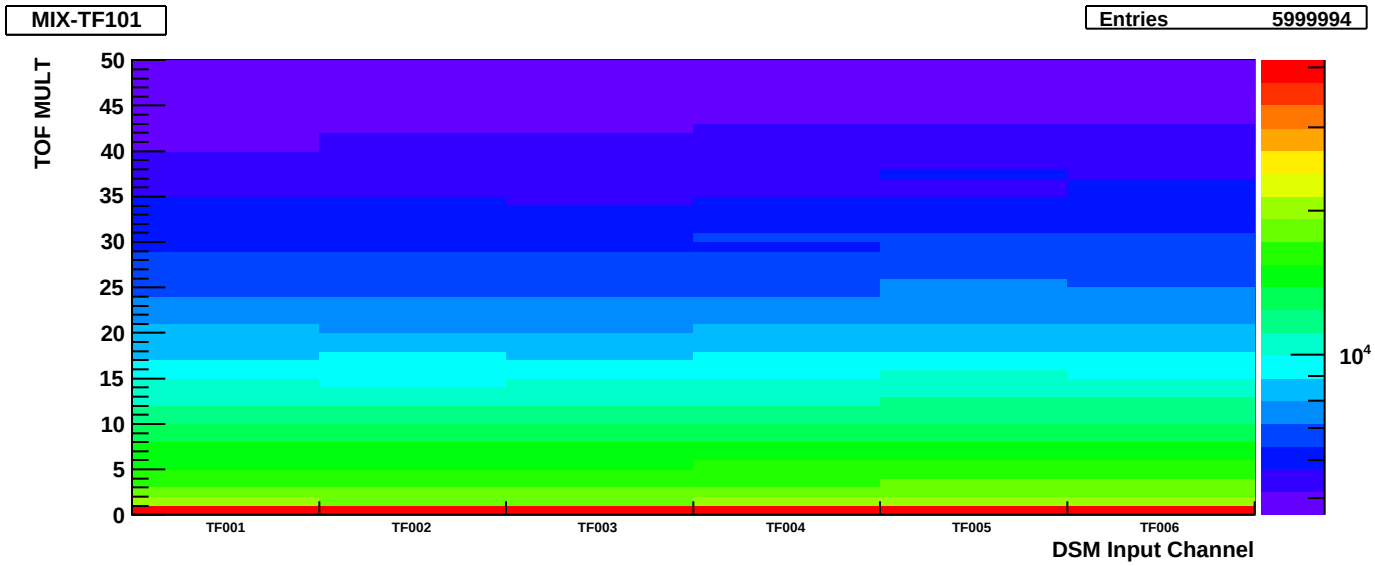

MIX-TF002
Entries 4.199996e+07
TOF MULT
TOF tray

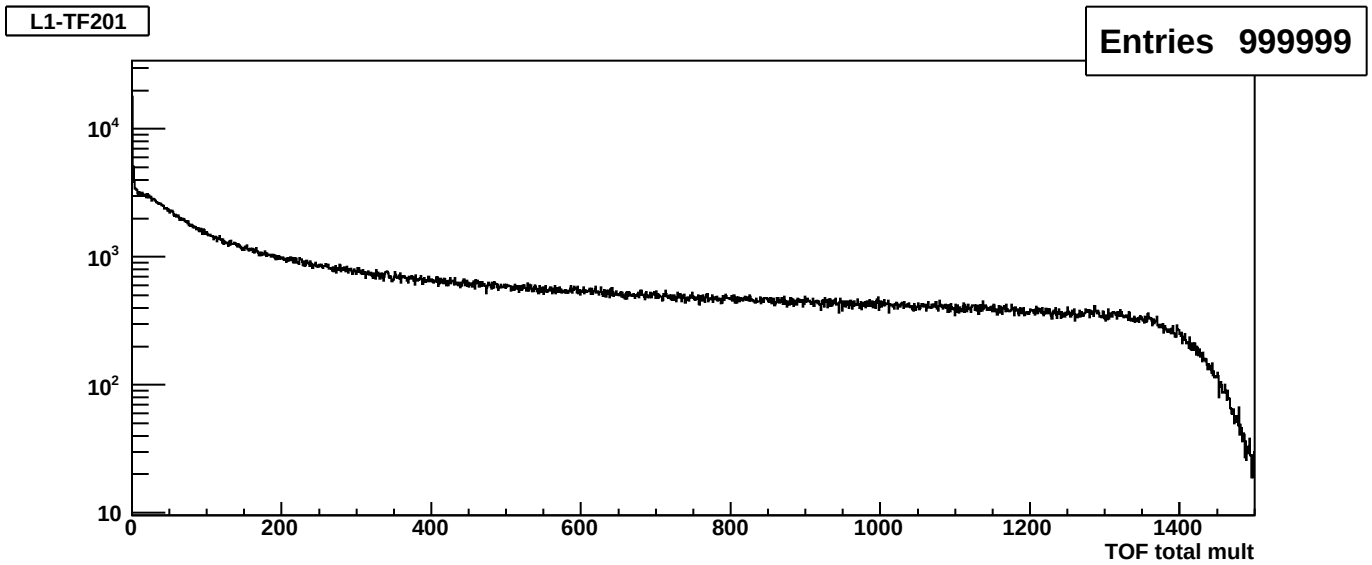

MIX-TF003
Entries 4.199996e+07
TOF MULT
TOF tray

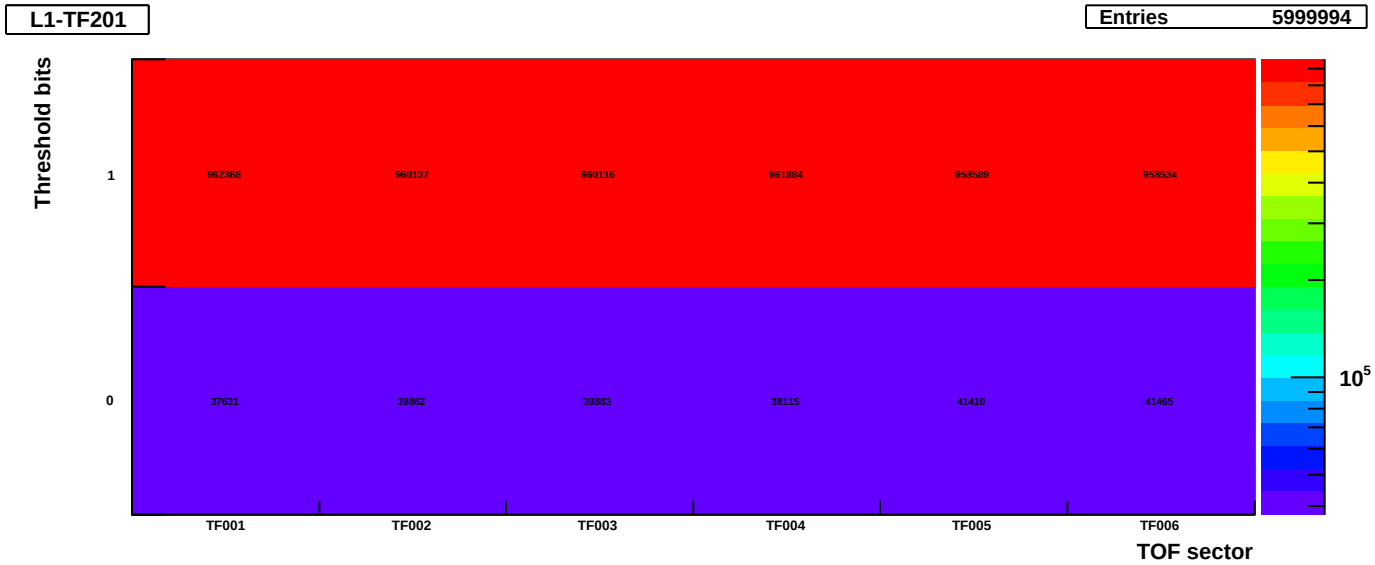

MIX-TF004
Entries 4.199996e+07
TOF MULT
TOF tray

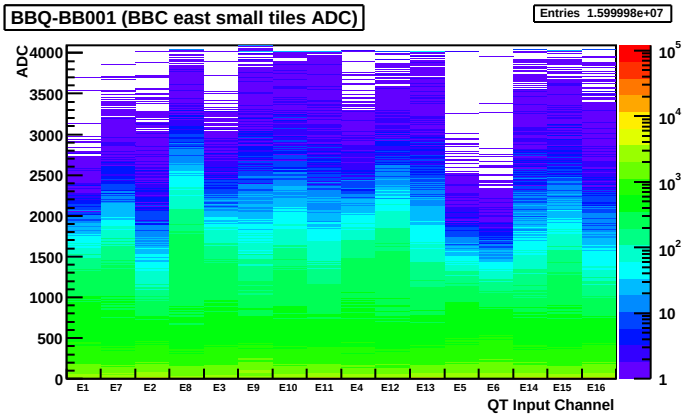

MIX-TF005
Entries 4.199996e+07
TOF MULT
TOF tray

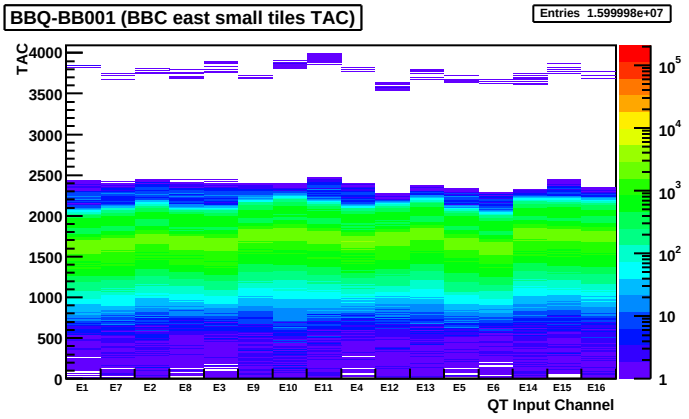

MIX-TF006
Entries 4.199996e+07
TOF MULT
TOF tray

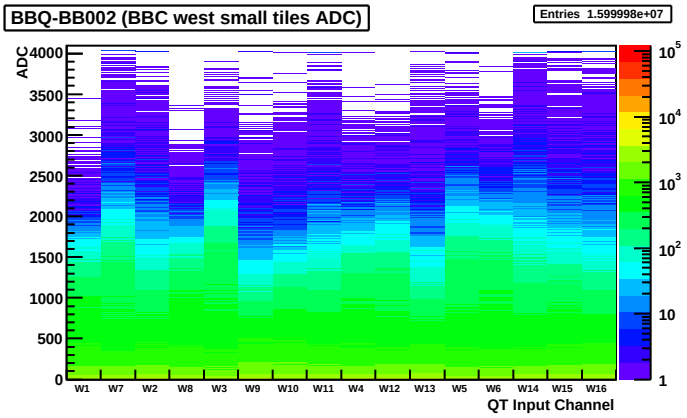

MIX-TF101
Entries 5999994
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
$10^4$

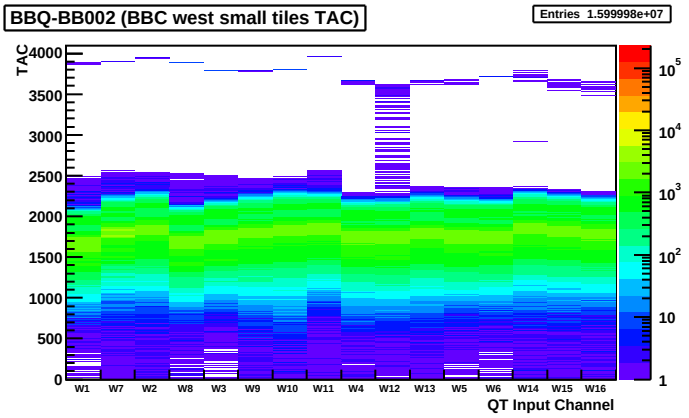

L1-TF201
Entries 999999
$10^4$
$10^3$
$10^2$
10
0
200
400
600
800
1000
1200
1400
TOF total mult

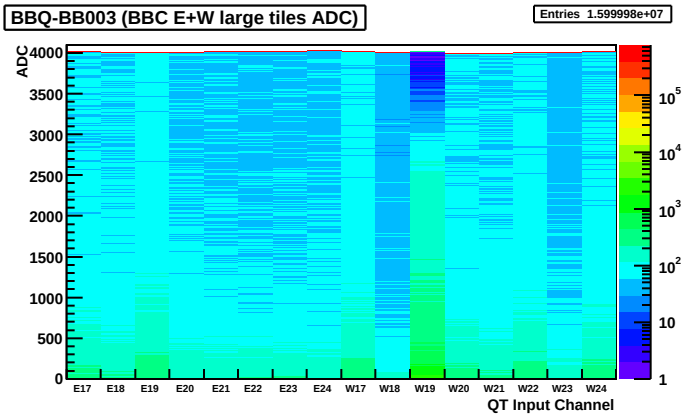

L1-TF201
Entries 5999994
Threshold bits
1
0
962368
960137
960116
961884
958589
958534
37631
39862
39883
38115
41410
41465
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
$10^5$

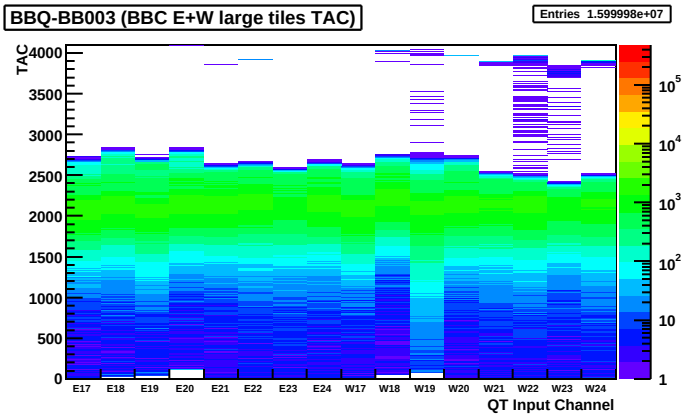

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.599998e+07
ADC
QT Input Channel

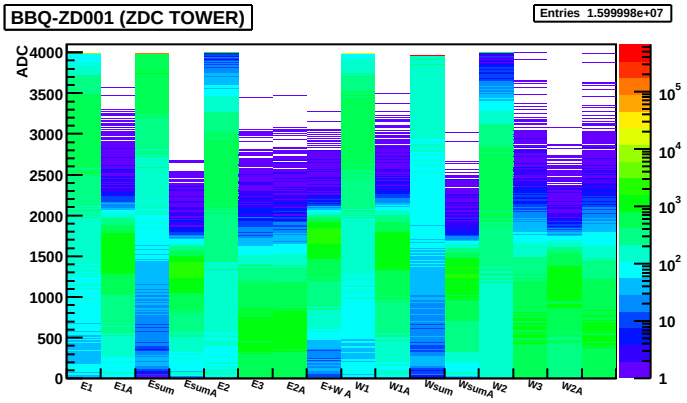

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.599998e+07
TAC
QT Input Channel

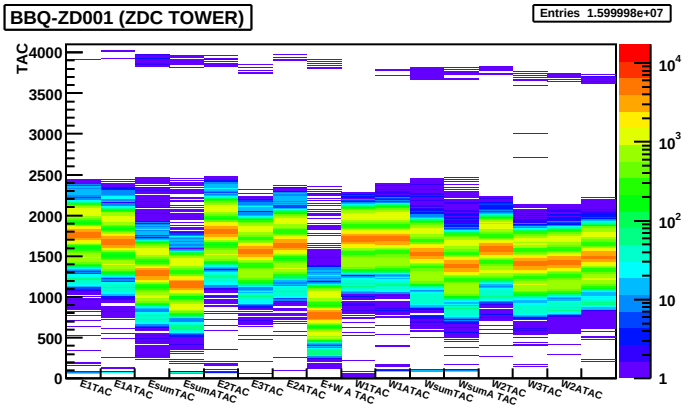

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.599998e+07
ADC
QT Input Channel

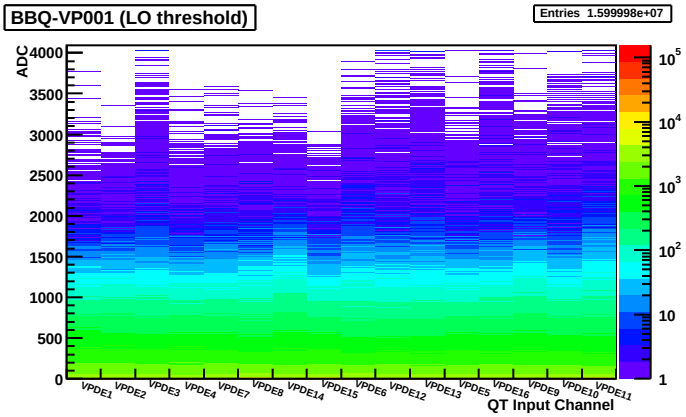

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.599998e+07
TAC
QT Input Channel

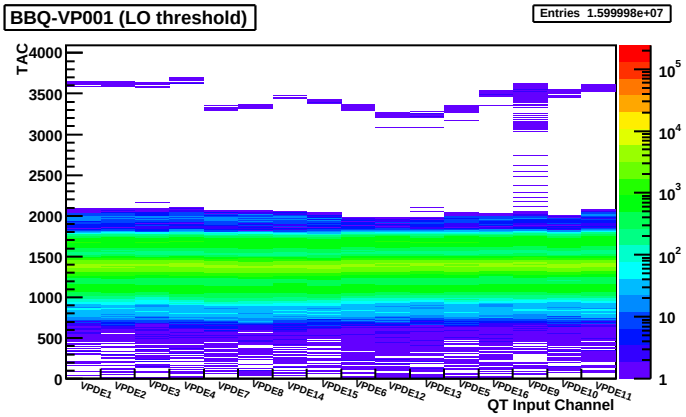

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.599998e+07
ADC
QT Input Channel

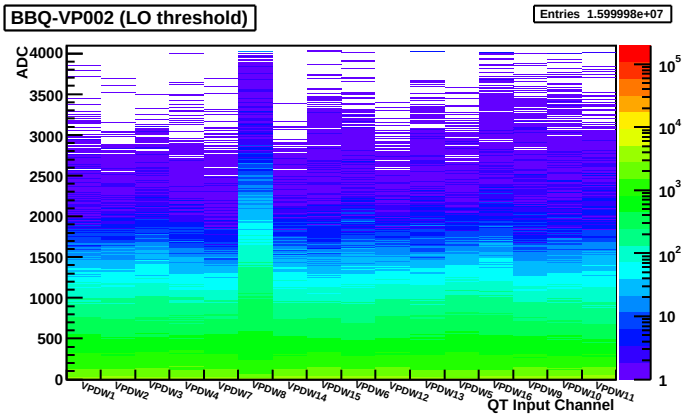

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.599998e+07
TAC
QT Input Channel

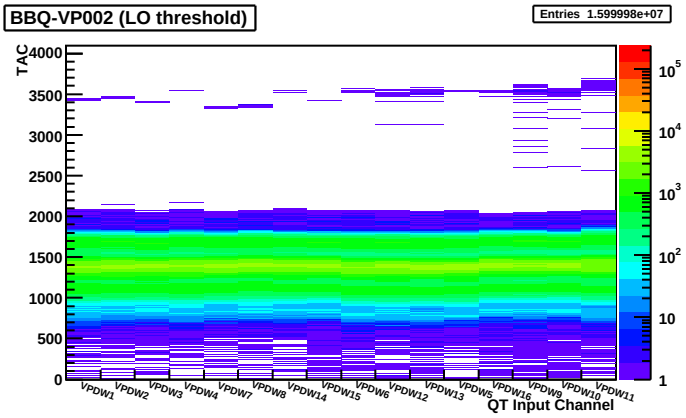

BBQ-ZD001 (ZDC TOWER)
Entries 1.599998e+07
ADC

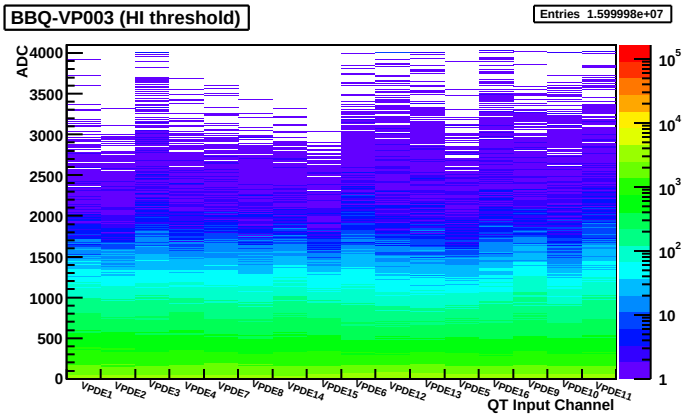

BBQ-ZD001 (ZDC TOWER)
Entries 1.599998e+07
TAC

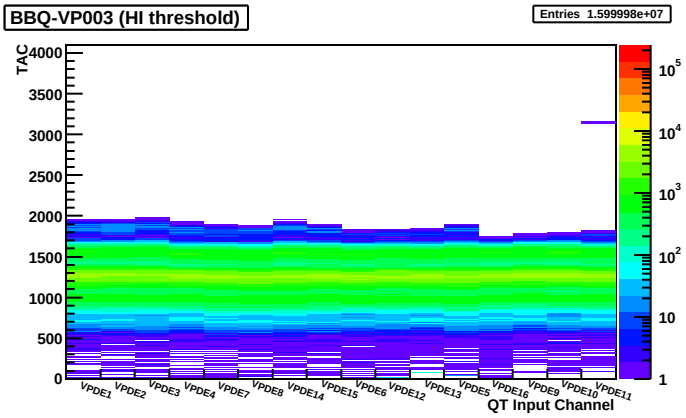

BBQ-VP001 (LO threshold)
Entries 1.599998e+07
ADC
QT Input Channel

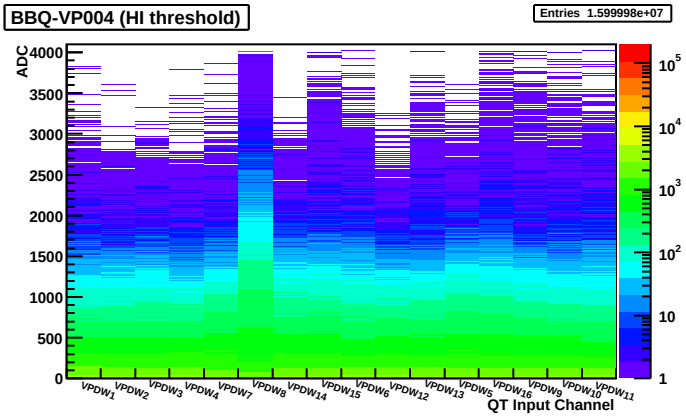

BBQ-VP001 (LO threshold)
Entries 1.599998e+07
TAC
QT Input Channel

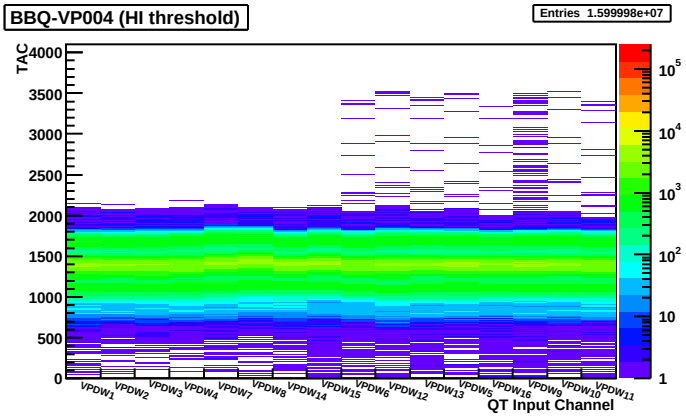

BBQ-VP002 (LO threshold)
Entries 1.599998e+07
ADC
QT Input Channel

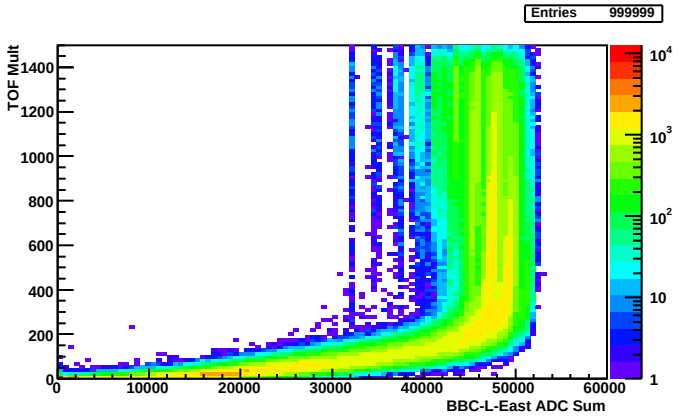

BBQ-VP002 (LO threshold)
Entries 1.599998e+07
TAC
QT Input Channel

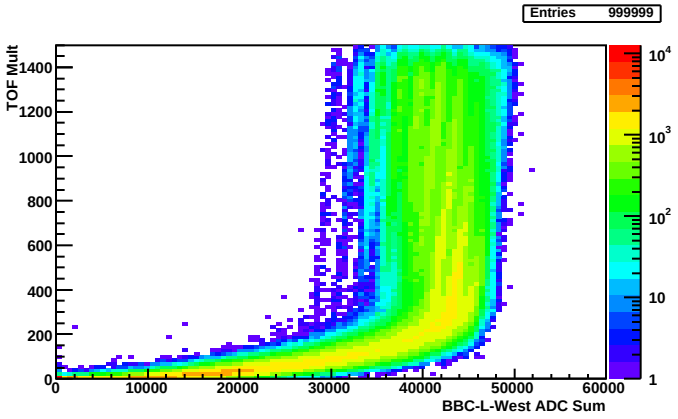

BBQ-VP003 (HI threshold)
Entries 1.599998e+07
ADC
QT Input Channel

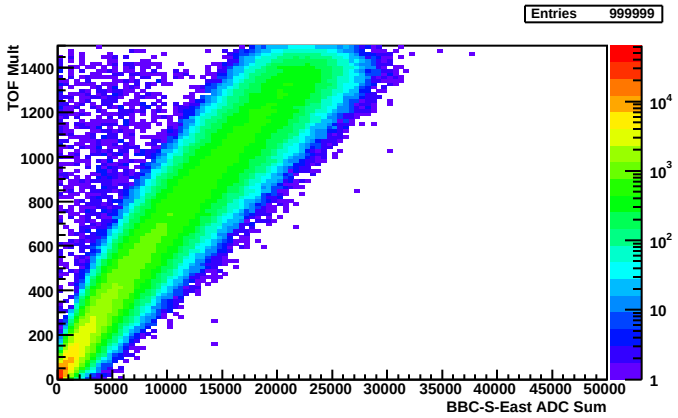

BBQ-VP003 (HI threshold)
Entries 1.599998e+07
TAC
QT Input Channel

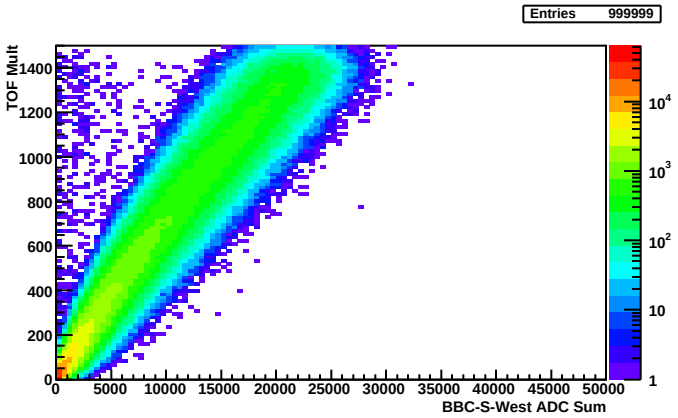

BBQ-VP004 (HI threshold)
Entries 1.599998e+07
ADC
QT Input Channel

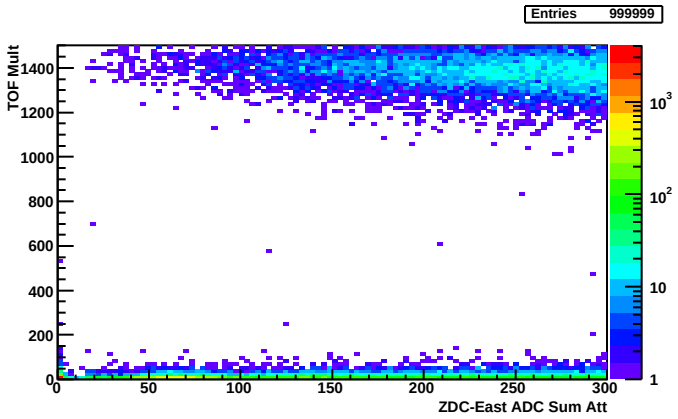

BBQ-VP004 (HI threshold)
Entries 1.599998e+07
TAC
QT Input Channel

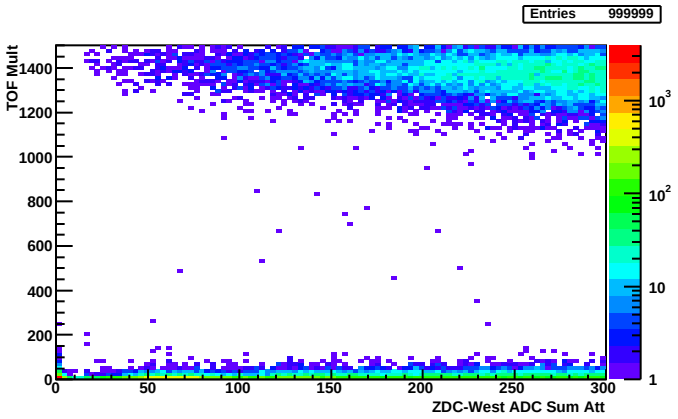

Entries 999999
TOF Mult
BBC-L-East ADC Sum

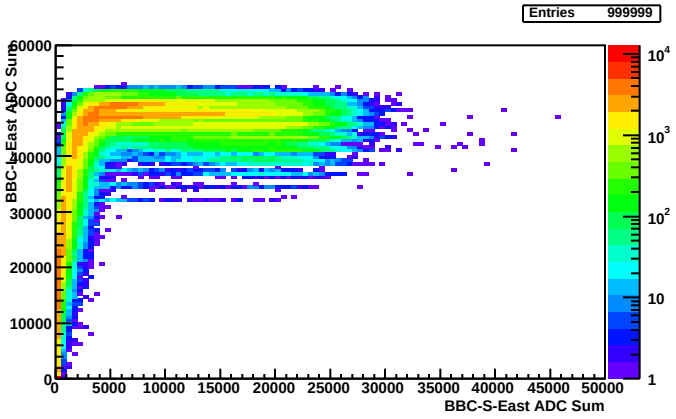

Entries 999999
TOF Mult
BBC-L-West ADC Sum

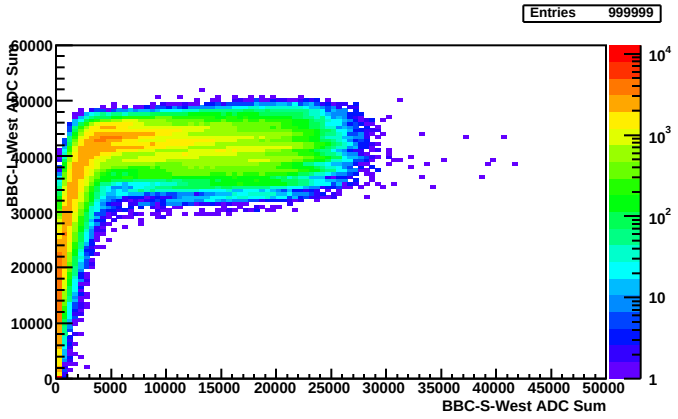

Entries 999999
TOF Mult
BBC-S-East ADC Sum

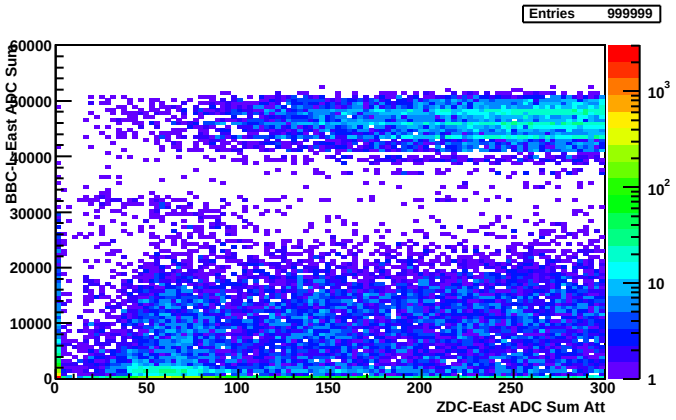

Entries 999999
TOF Mult
BBC-S-West ADC Sum

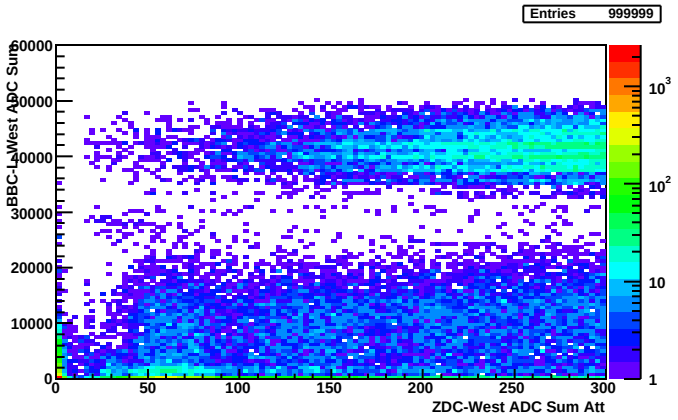

Entries 999999
TOF Mult
ZDC-East ADC Sum Att

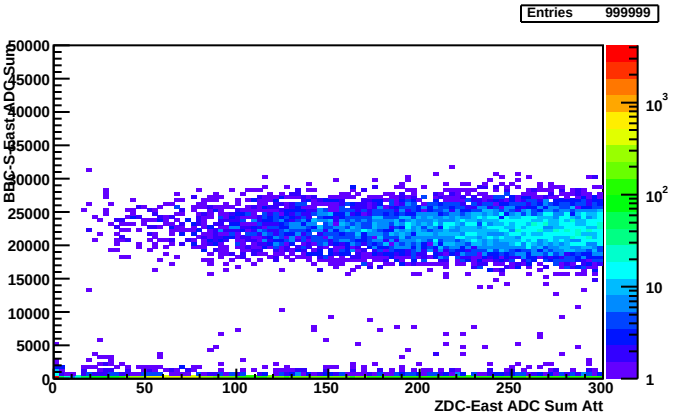

Entries 999999
TOF Mult
ZDC-West ADC Sum Att

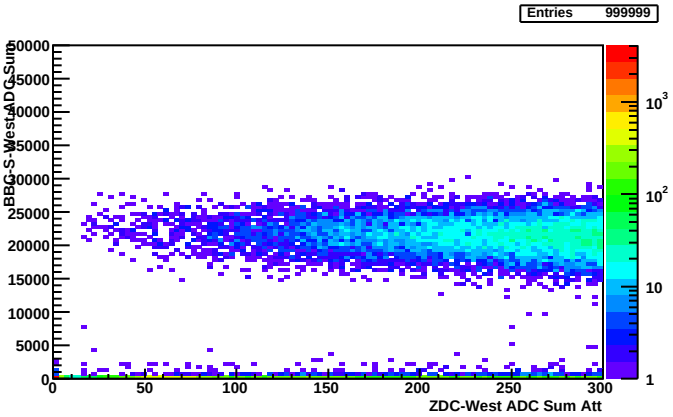

Entries 999999
BBC-L-East ADC Sum
BBC-S-East ADC Sum

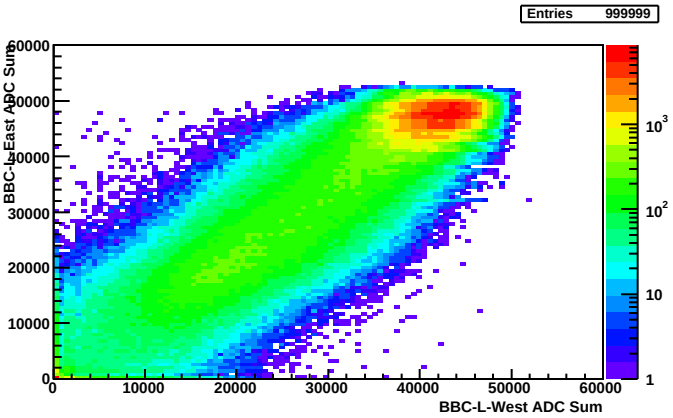

Entries 999999
BBC-L-West ADC Sum
BBC-S-West ADC Sum

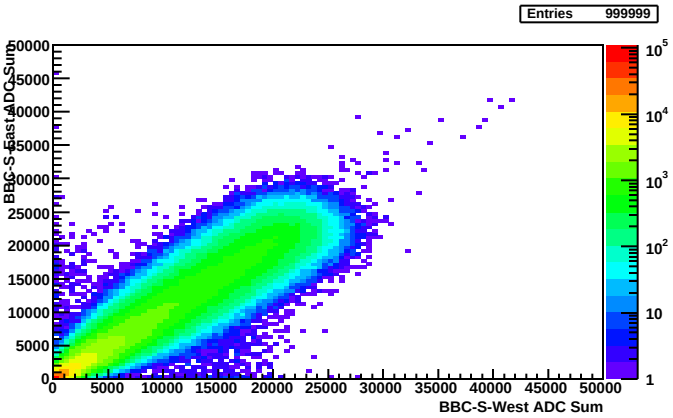

Entries 999999
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

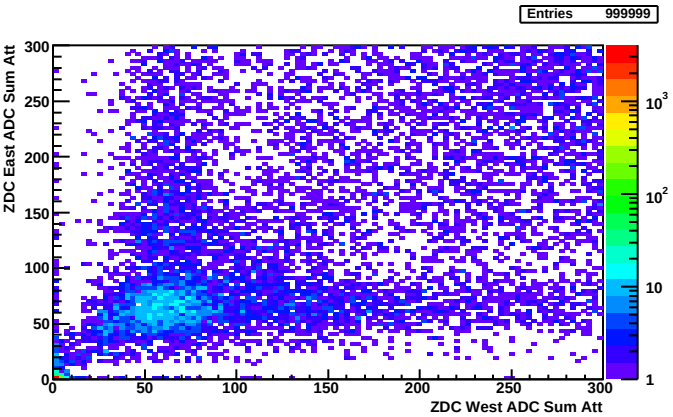

Entries 999999
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

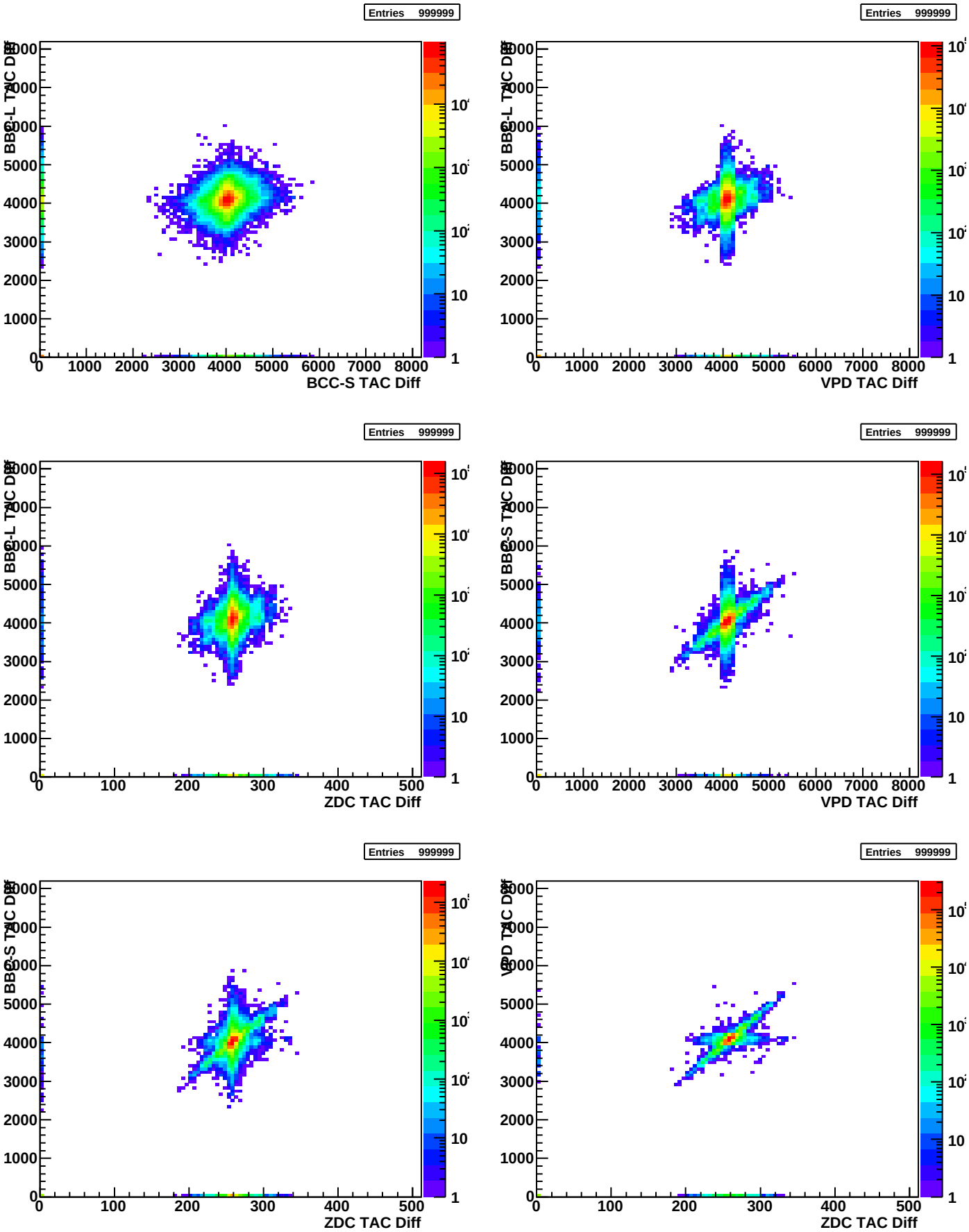

Entries 999999
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

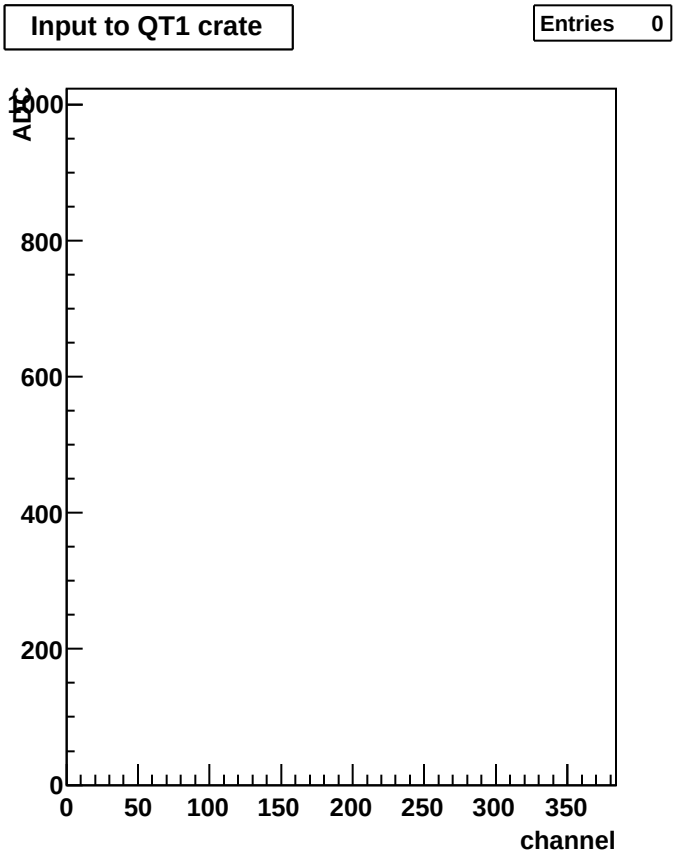

Entries 999999
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

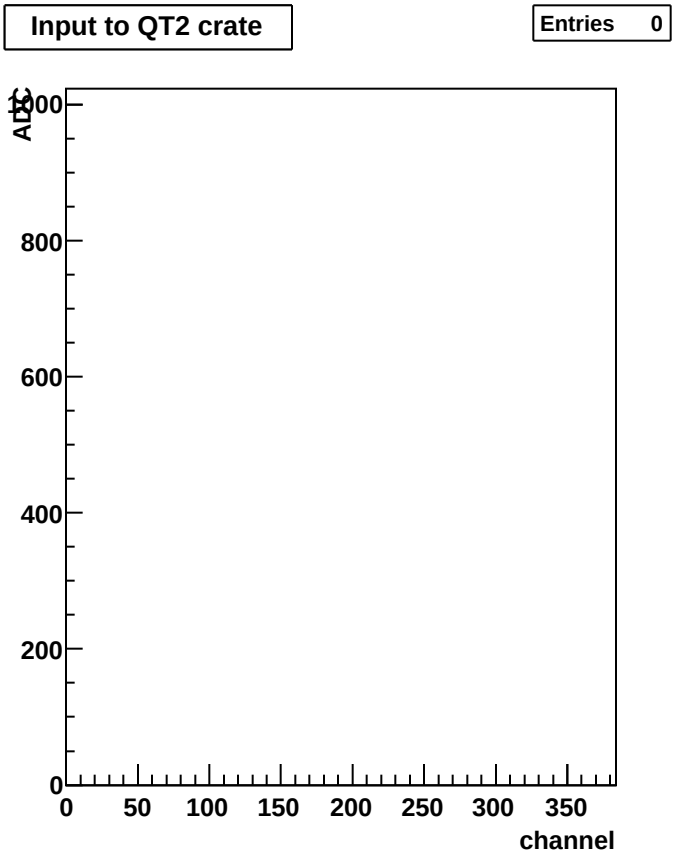

Entries 999999
BBC-L-East ADC Sum
BBC-L-West ADC Sum

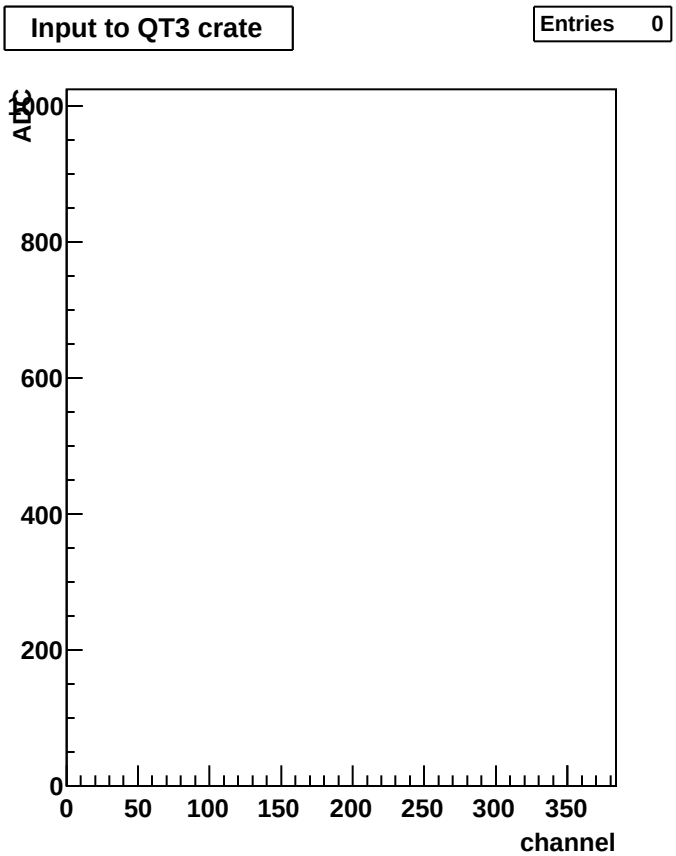

Entries 999999
BBC-S-East ADC Sum
BBC-S-West ADC Sum

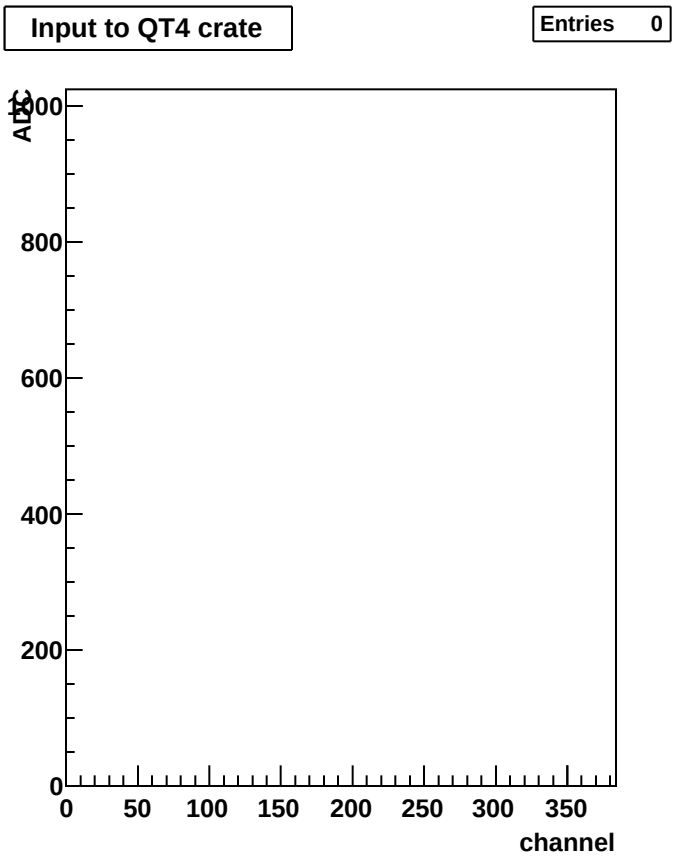

Entries 999999
ZDC East ADC Sum Att
ZDC West ADC Sum Att

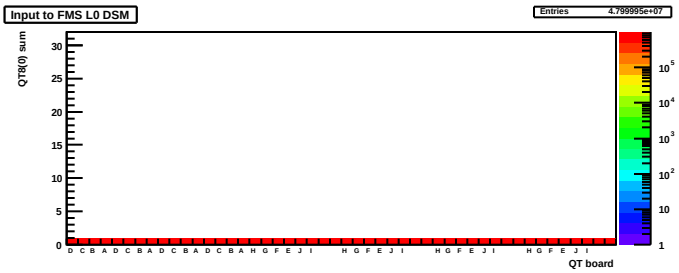

Entries 999999
BBC-L TAC Diff
BCC-S TAC Diff
Entries 999999
BBC-L TAC Diff
VPD TAC Diff
Entries 999999
BBC-L TAC Diff
ZDC TAC Diff
Entries 999999
BBC-S TAC Diff
VPD TAC Diff
Entries 999999
BBC-S TAC Diff
ZDC TAC Diff
Entries 999999
VPD TAC Diff
ZDC TAC Diff

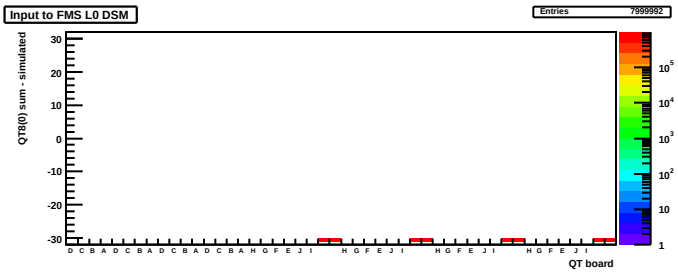

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

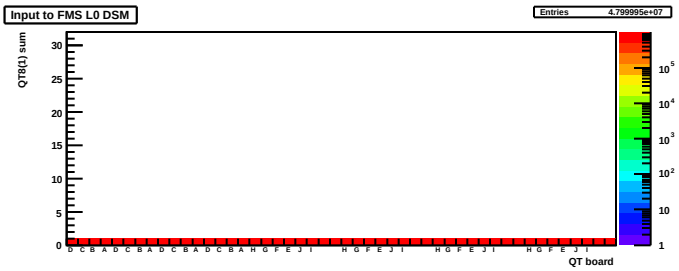

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

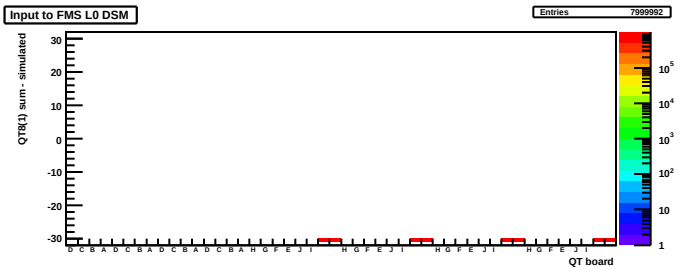

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

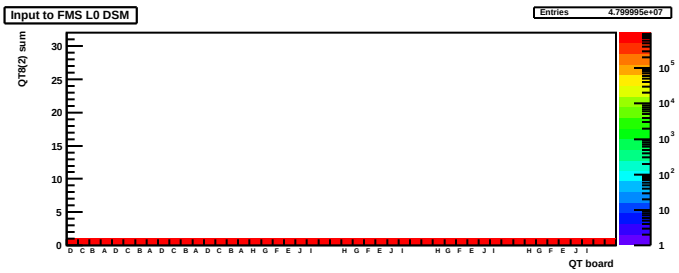

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

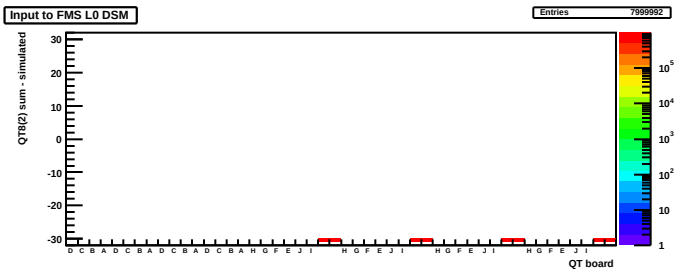

Input to FMS L0 DSM
Entries 4.799995e+07
QT8(0) sum
QT board

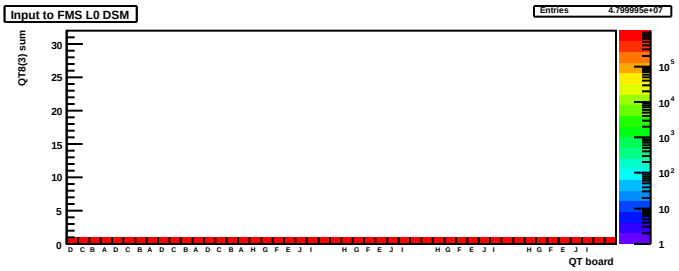

Input to FMS L0 DSM
Entries 7999992
QT8(0) sum - simulated
QT board

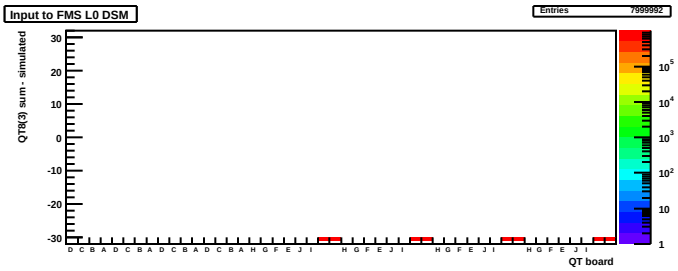

Input to FMS L0 DSM
Entries 4.799995e+07
QT8(1) sum
QT board

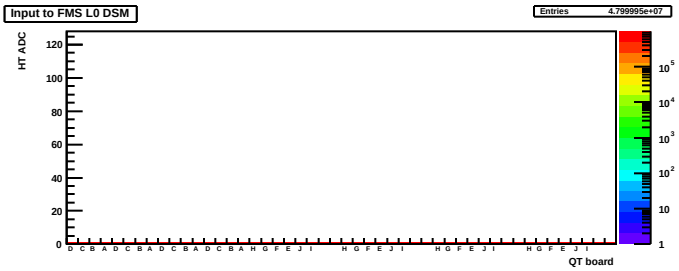

Input to FMS L0 DSM
Entries 7999992
QT8(1) sum - simulated
QT board

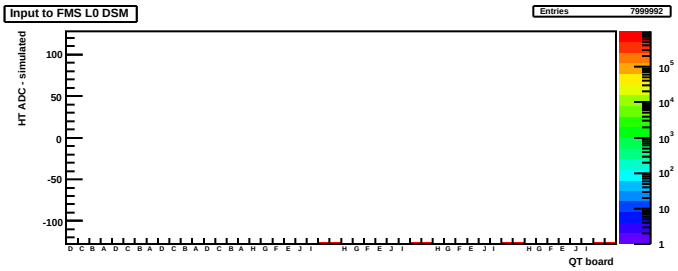

Input to FMS L0 DSM
Entries 4.799995e+07
QT8(2) sum
QT board

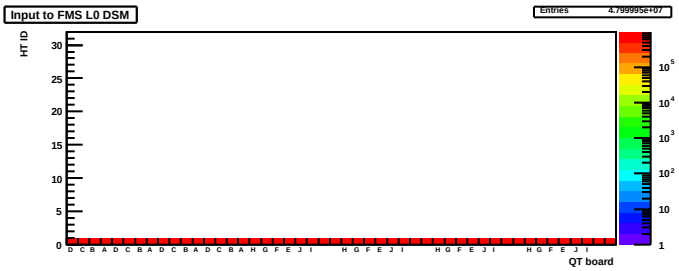

Input to FMS L0 DSM
Entries 7999992
QT8(2) sum - simulated
QT board

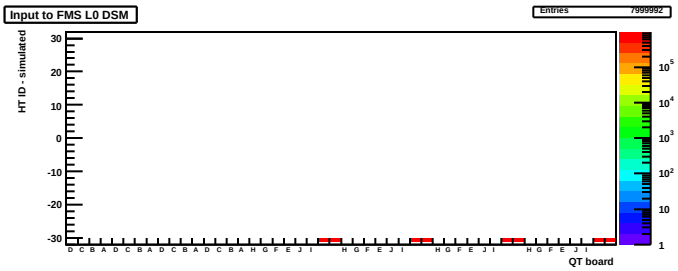

Input to FMS L0 DSM
Entries 4.799995e+07
QT8(3) sum
QT board

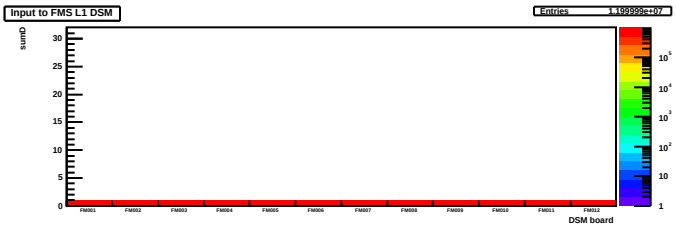

Input to FMS L0 DSM
Entries 7999992
QT8(3) sum - simulated
QT board

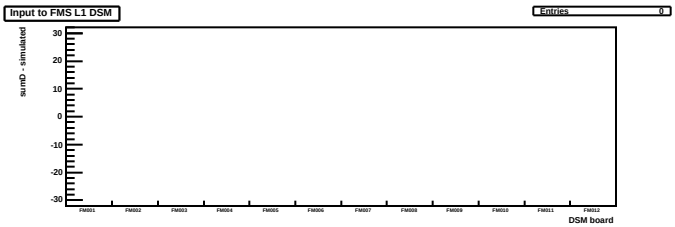

Input to FMS L0 DSM
Entries 4.799995e+07
HT ADC
QT board

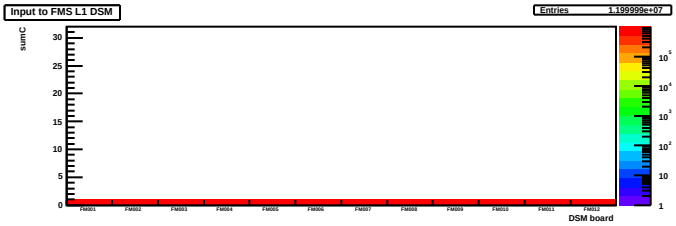

Input to FMS L0 DSM
Entries 7999992
HT ADC - simulated
QT board

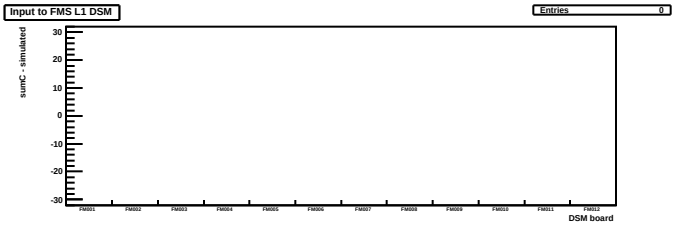

Input to FMS L0 DSM
Entries 4.799995e+07
HT ID
QT board

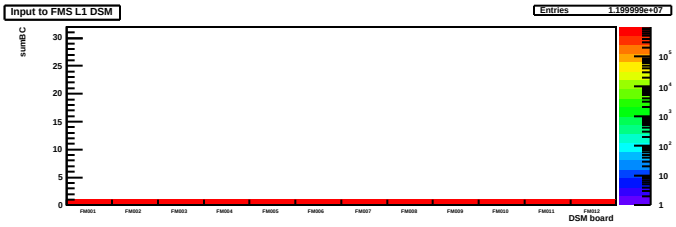

Input to FMS L0 DSM
Entries 7999992
HT ID - simulated
QT board

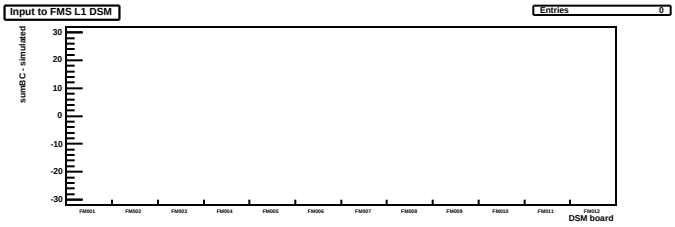

Input to FMS L1 DSM
Entries 1.199999e+07
sumD
DSM board

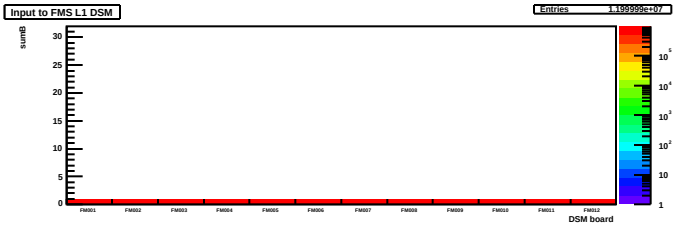

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

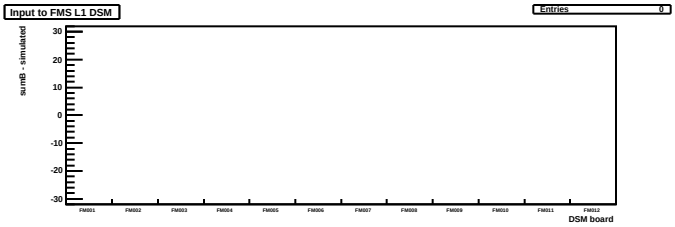

Input to FMS L1 DSM
Entries 1.199999e+07
sumC
DSM board

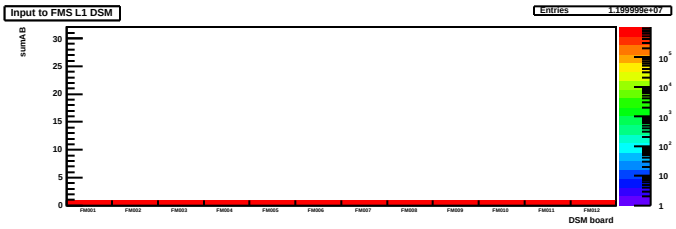

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

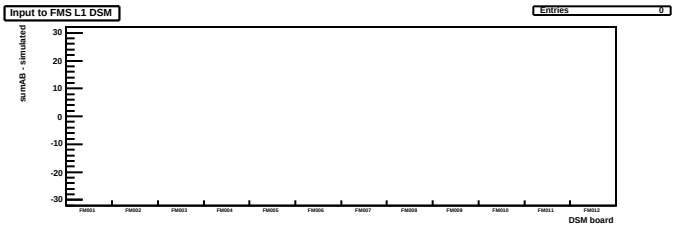

Input to FMS L1 DSM
Entries 1.199999e+07
sumBC
DSM board

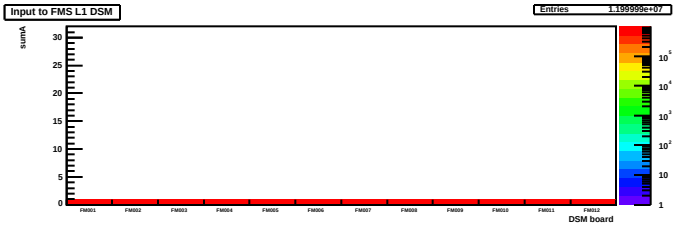

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

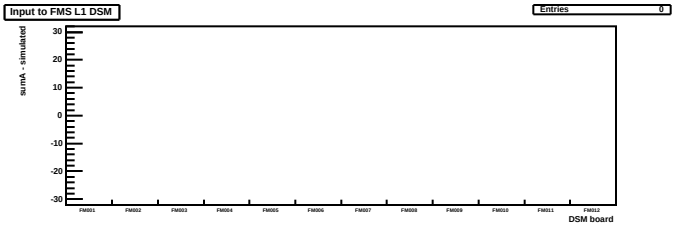

Input to FMS L1 DSM
Entries 1.199999e+07
sumB
DSM board

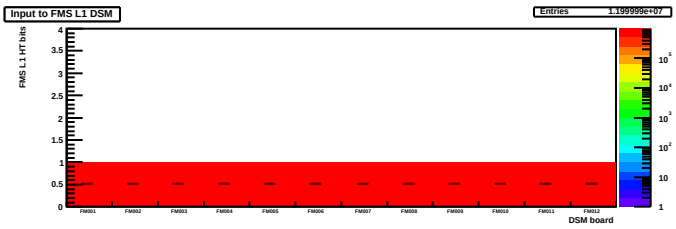

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

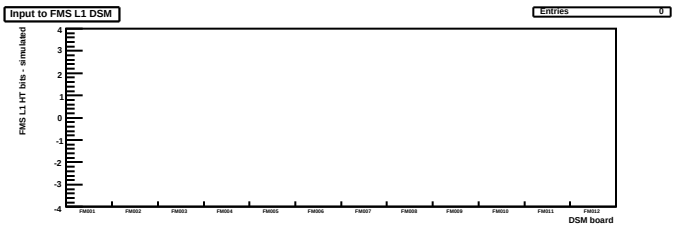

Input to FMS L1 DSM
Entries 1.199999e+07
sumAB
DSM board

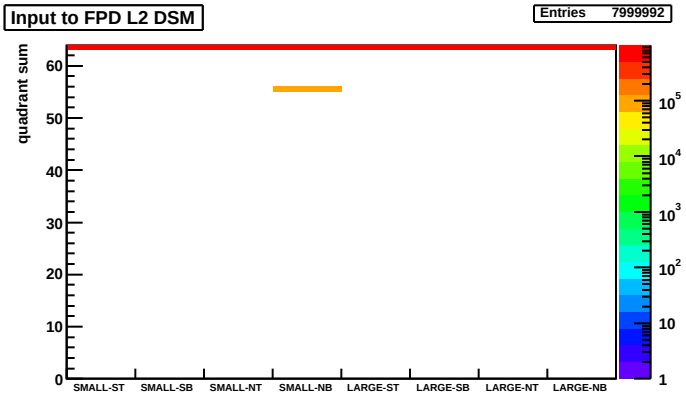

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

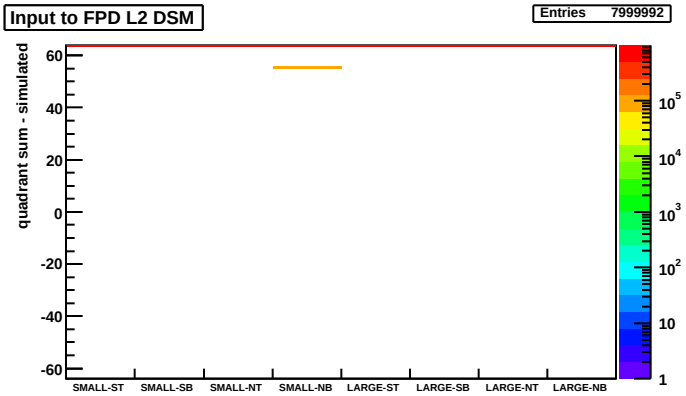

Input to FMS L1 DSM
Entries 1.199999e+07
sumA
DSM board

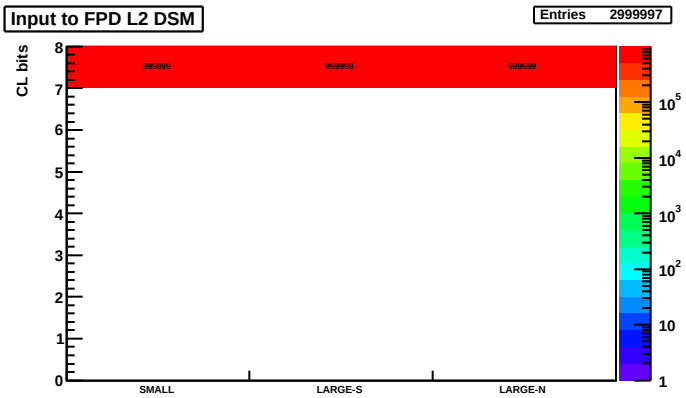

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

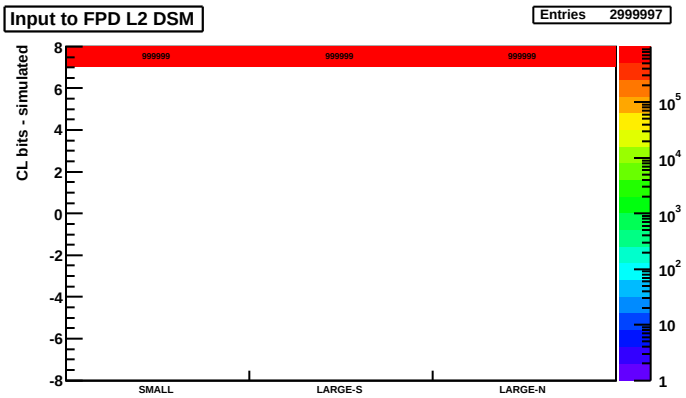

Input to FMS L1 DSM
Entries 1.199999e+07
FMS L1 HT bits
DSM board

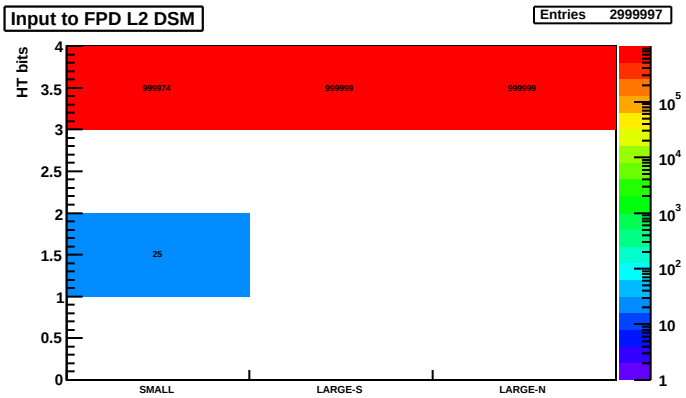

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

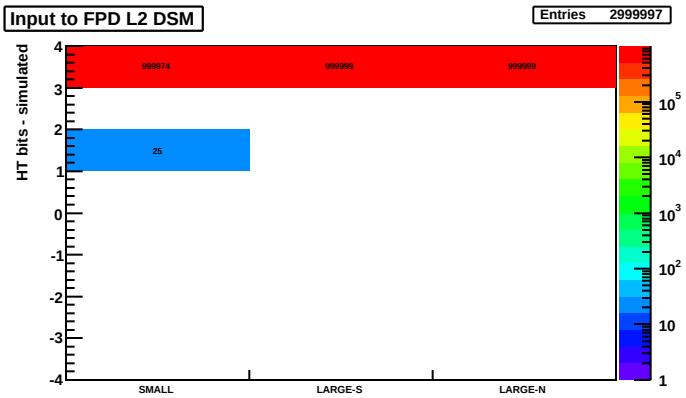

Input to FPD L2 DSM
Entries 7999992
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

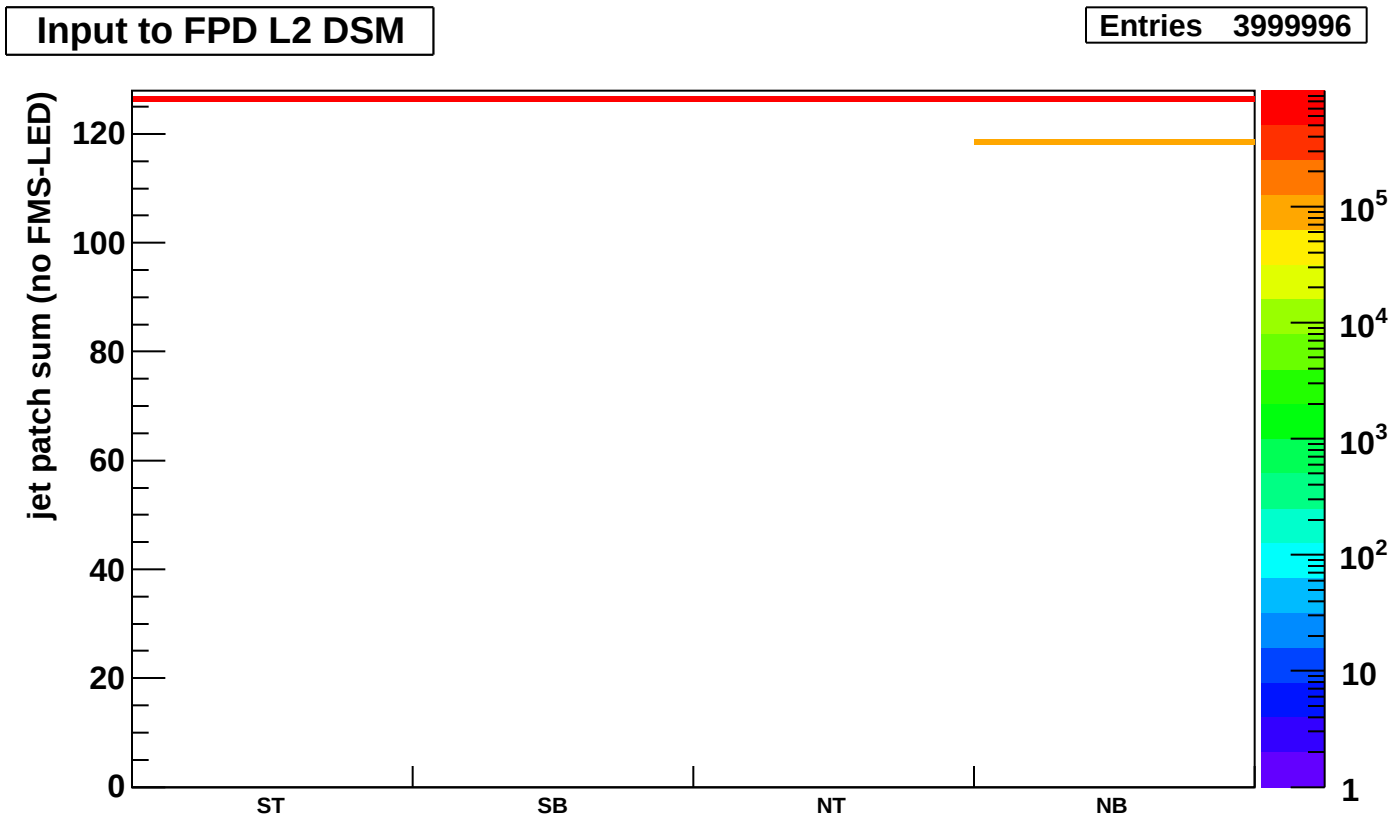

Input to FPD L2 DSM
Entries 7999992
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

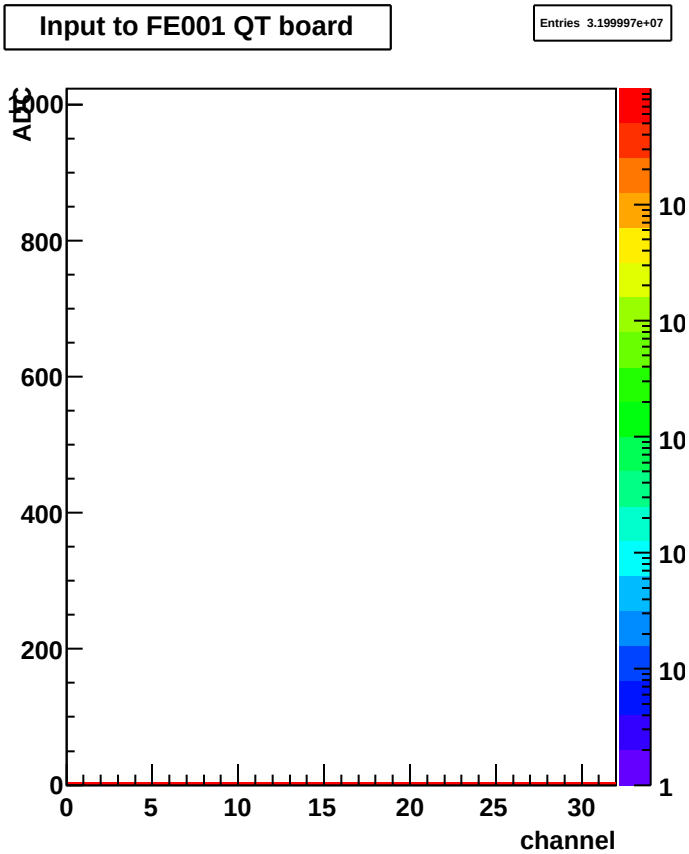

Input to FPD L2 DSM
Entries 2999997
CL bits
999999
999999
999999
SMALL
LARGE-S
LARGE-N

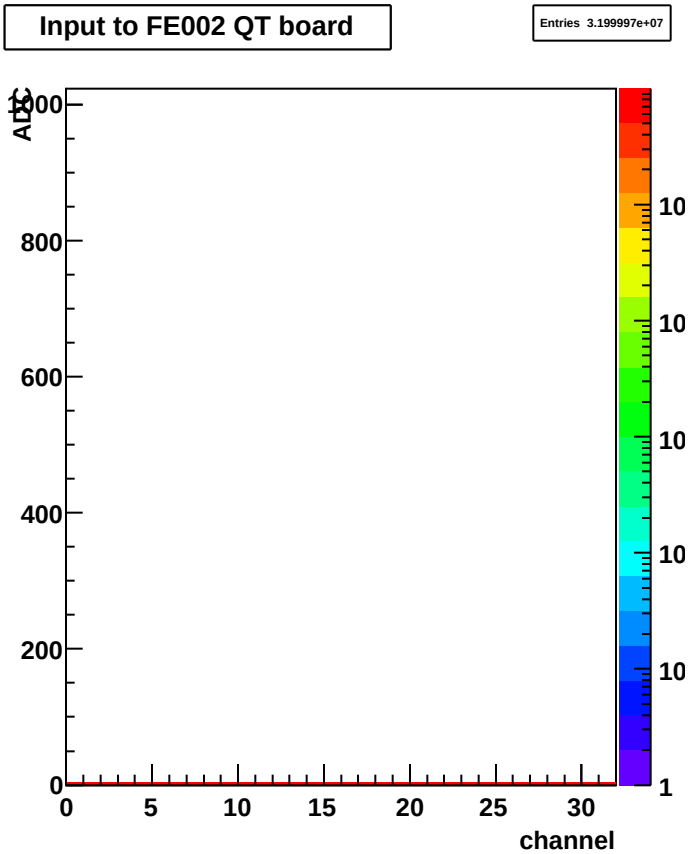

Input to FPD L2 DSM
Entries 2999997
CL bits - simulated
999999
999999
999999
SMALL
LARGE-S
LARGE-N

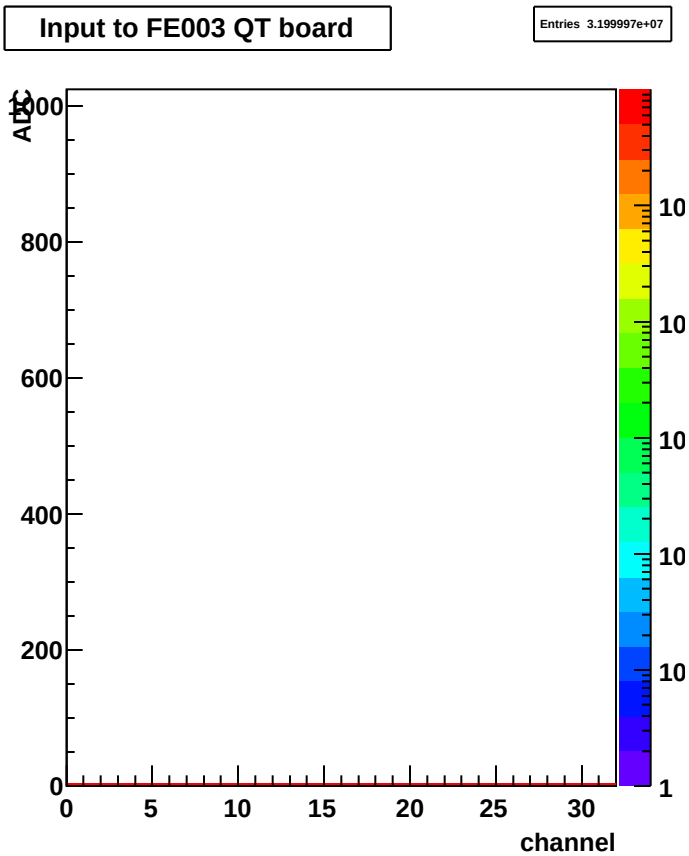

Input to FPD L2 DSM
Entries 2999997
HT bits
999974
999999
999999
25
SMALL
LARGE-S
LARGE-N

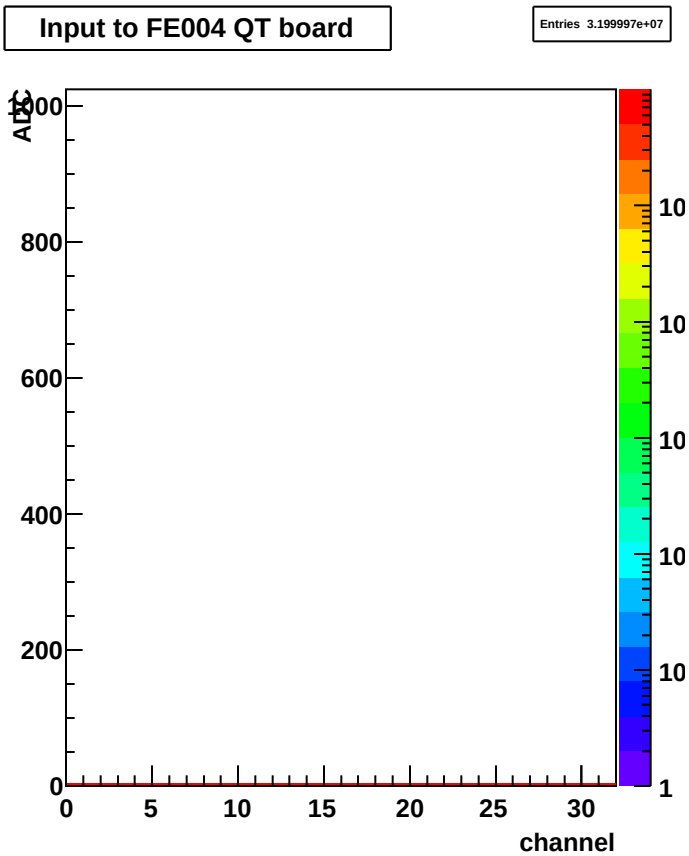

Input to FPD L2 DSM
Entries 2999997
HT bits - simulated
999974
999999
999999
25
SMALL
LARGE-S
LARGE-N


Input to FPD L2 DSM
Entries 3999996
jet patch sum (no FMS-LED)
120
100
80
60
40
20
0
ST
SB
NT
NB
$10^5$
$10^4$
$10^3$
$10^2$
10
1

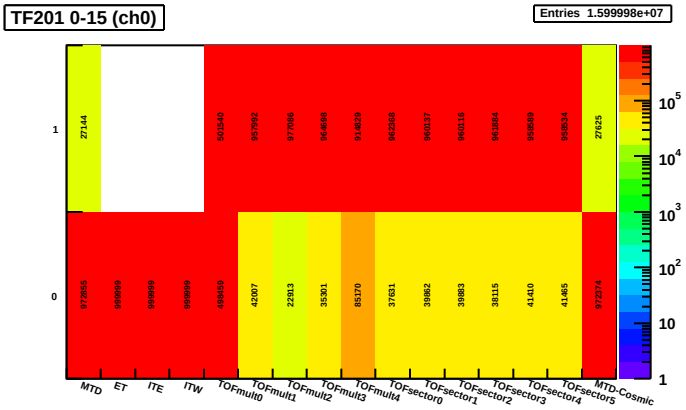

Input to FE001 QT board
Entries 3.199997e+07
ADC
1000
800
600
400
200
0
0
5
10
15
20
25
30
channel
10
10
10
10
10
1


Input to FE002 QT board
Entries 3.199997e+07
ADC
1000
800
600
400
200
0
0
5
10
15
20
25
30
channel
10
10
10
10
10
1

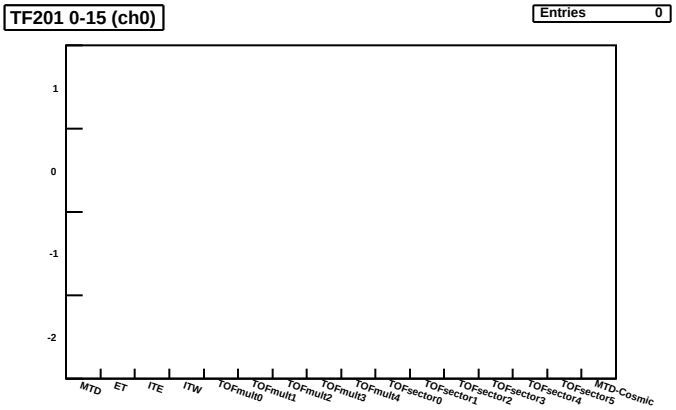

Input to FE003 QT board
Entries 3.199997e+07
ADC
1000
800
600
400
200
0
0
5
10
15
20
25
30
channel
10
10
10
10
10
1


Input to FE004 QT board
Entries 3.199997e+07
ADC
1000
800
600
400
200
0
0
5
10
15
20
25
30
channel
10
10
10
10
10
1

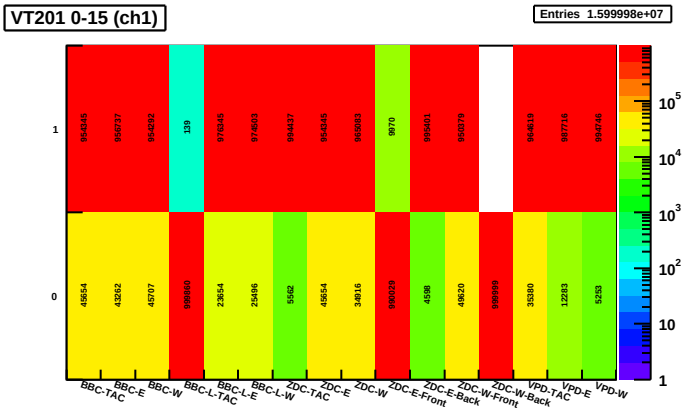
TF201 0-15 (ch0)



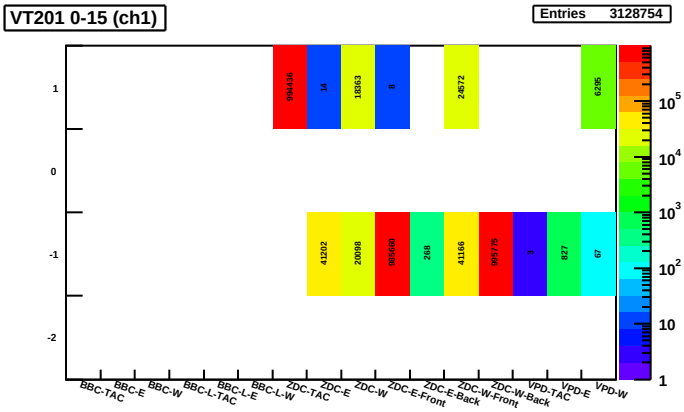

TF201 0-15 (ch0)



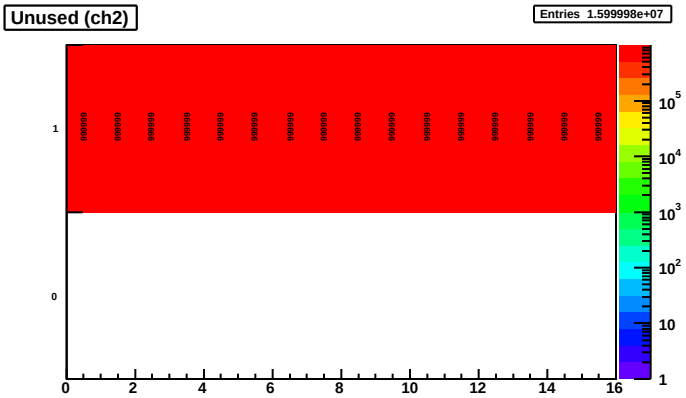

VT201 0-15 (ch1)

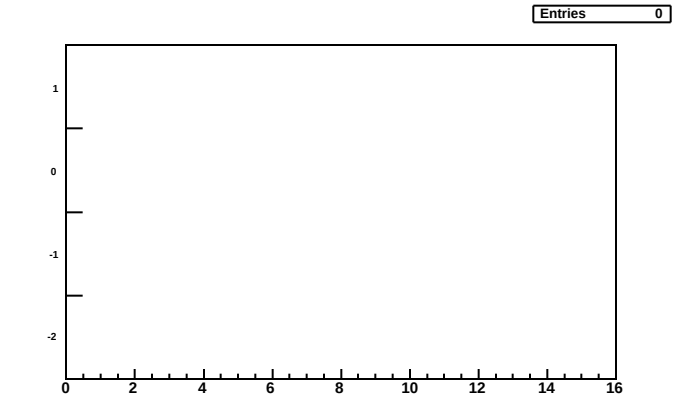



VT201 0-15 (ch1)

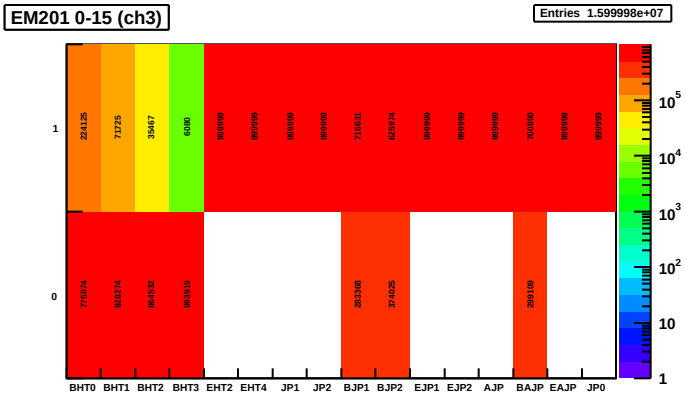



Unused (ch2)

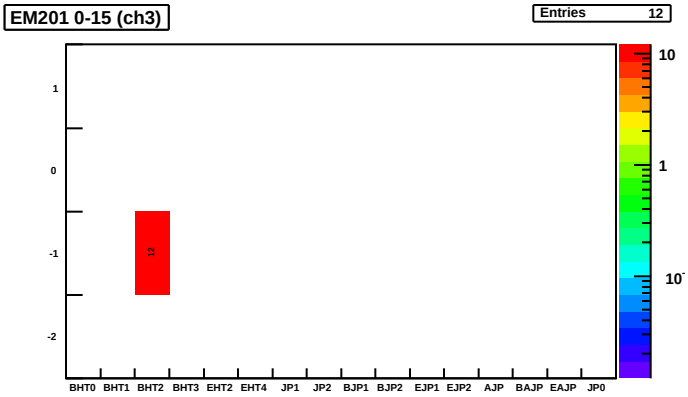


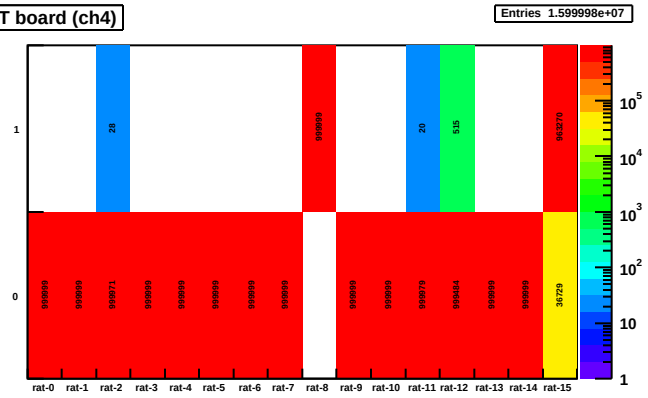

EM201 0-15 (ch3)

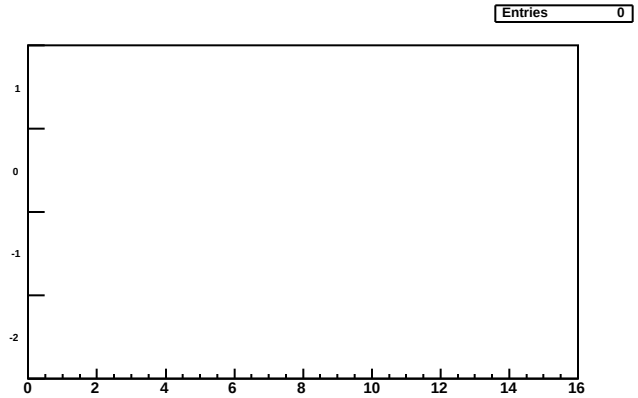



EM201 0-15 (ch3)

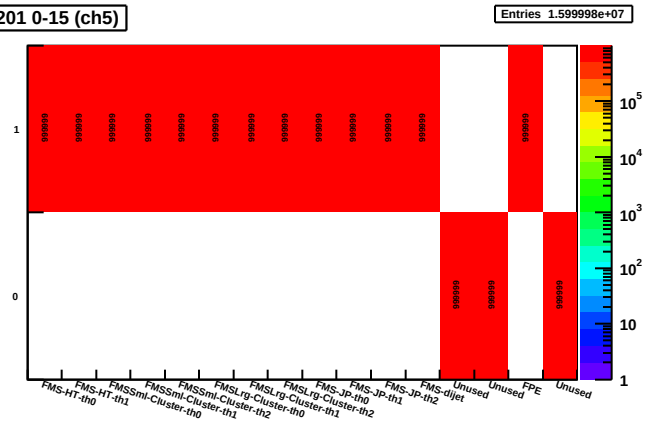


RAT board (ch4)

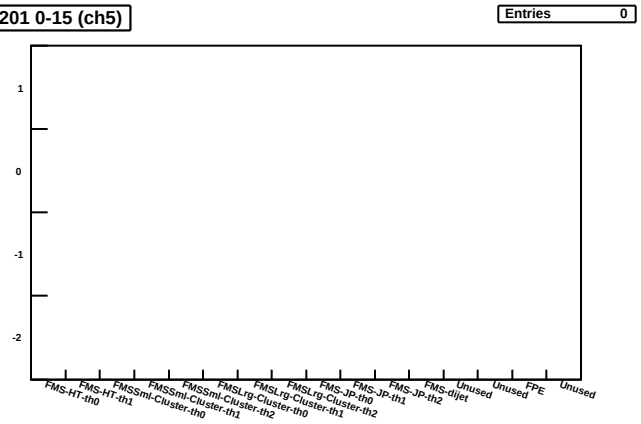


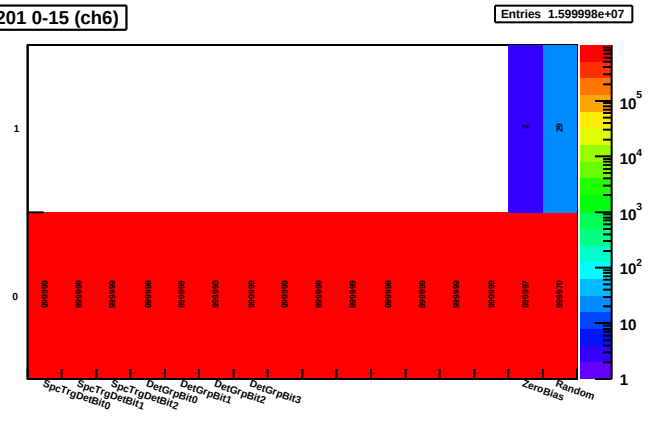

FP201 0-15 (ch5)

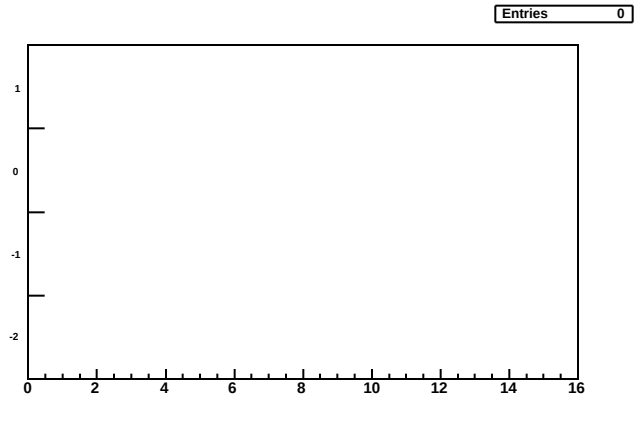


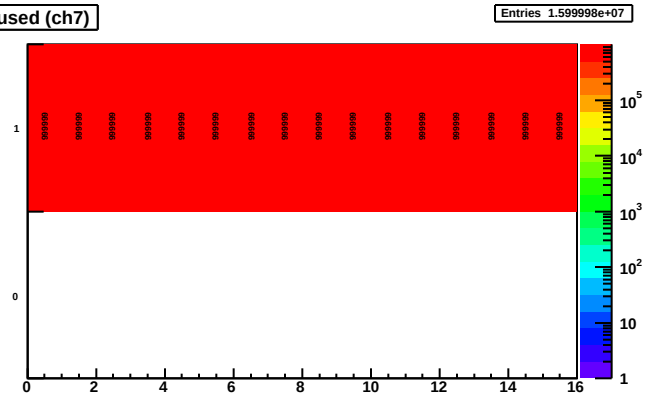
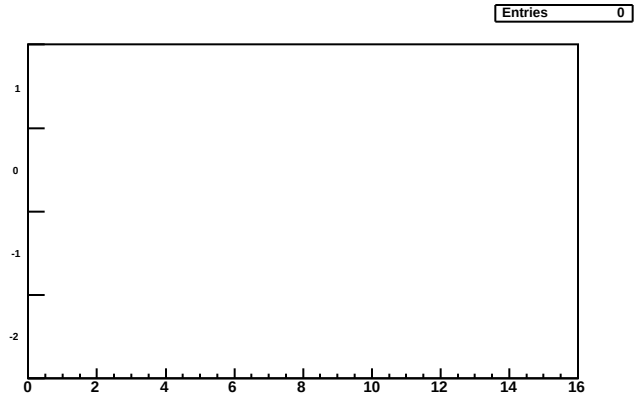

FP201 0-15 (ch5)




ST201 0-15 (ch6)




Unused (ch7)