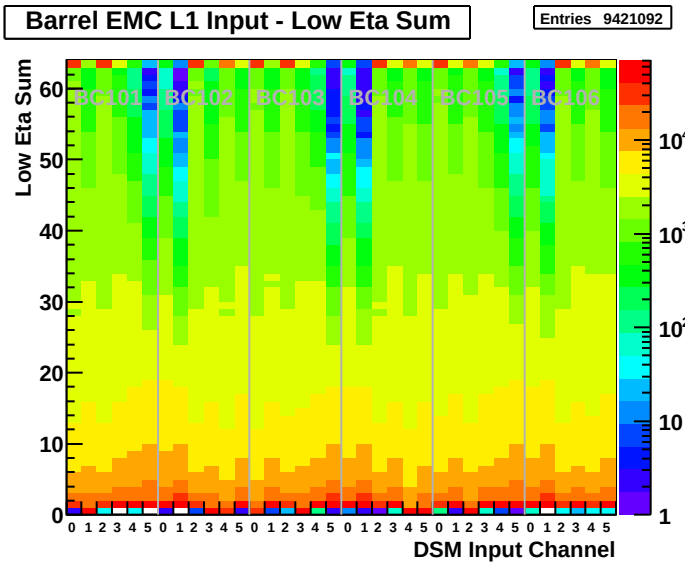
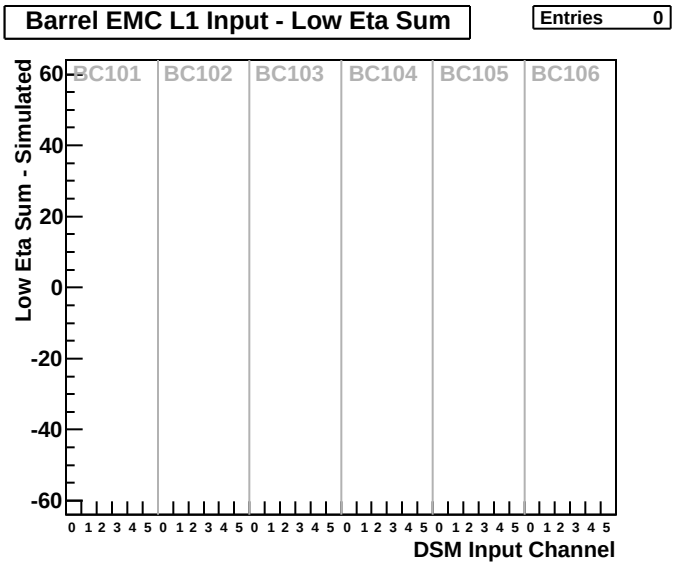
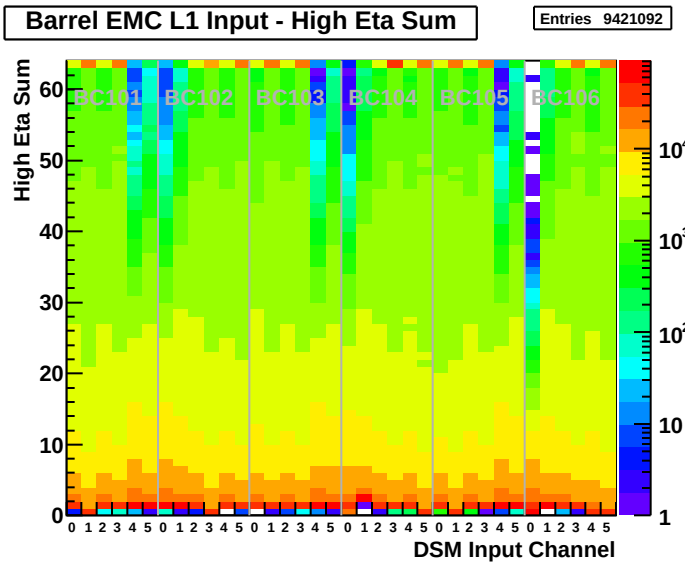
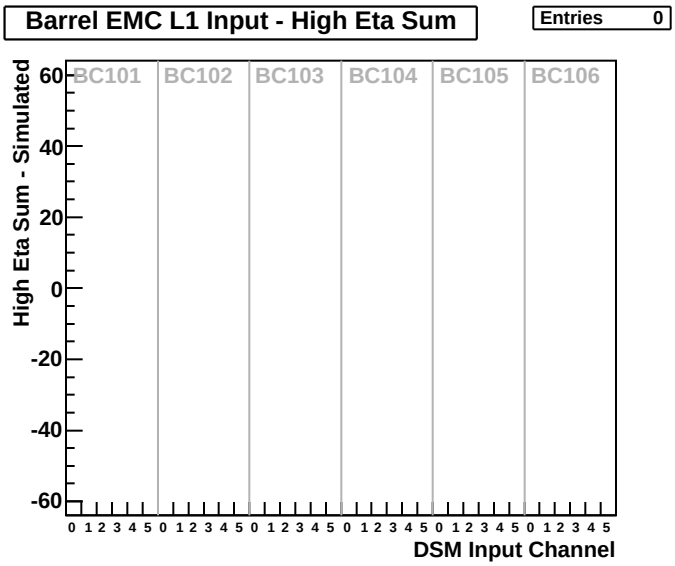
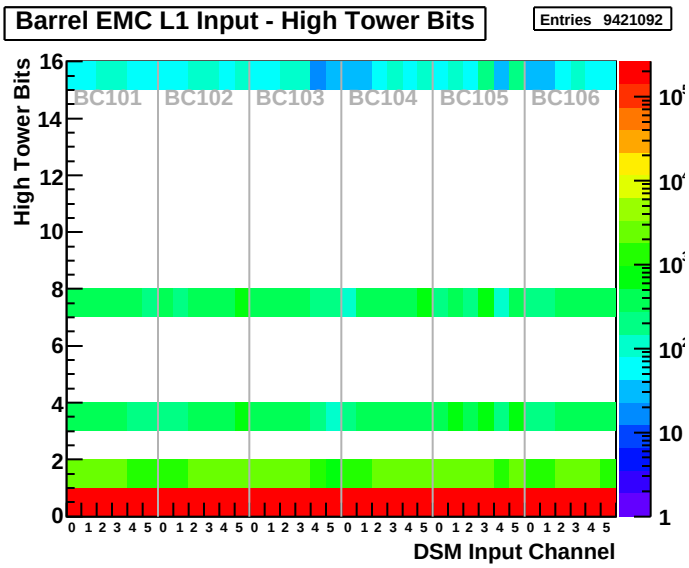
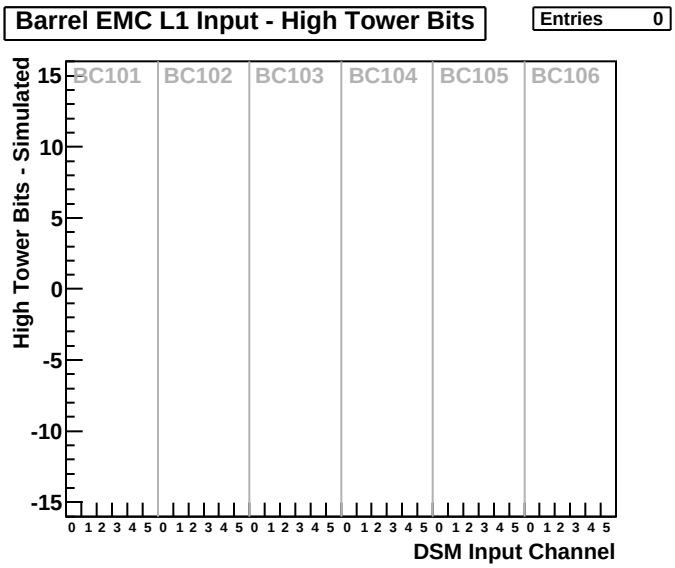

Barrel EMC L1 Input - Low Eta Sum
Entries 9421092
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

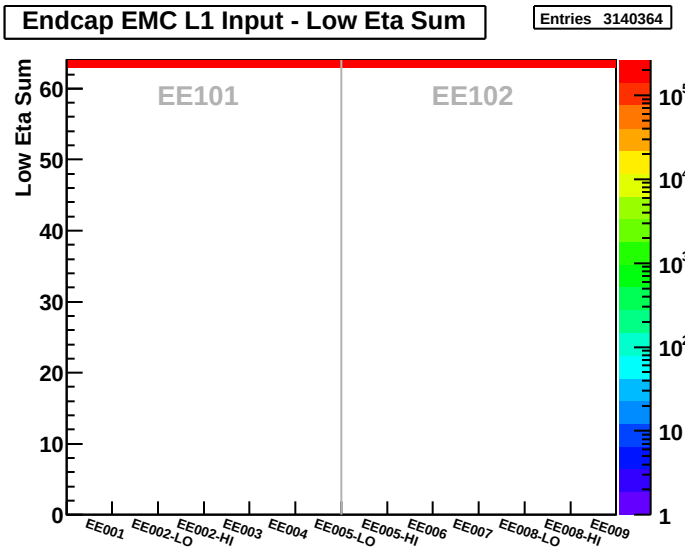

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

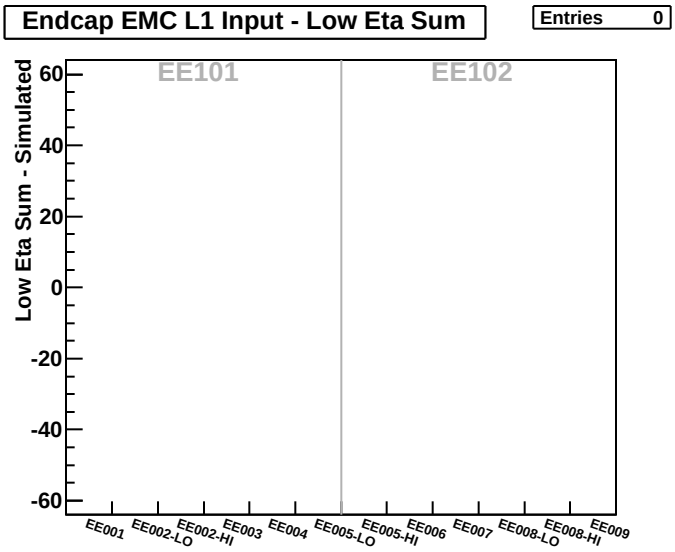

Barrel EMC L1 Input - High Eta Sum
Entries 9421092
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

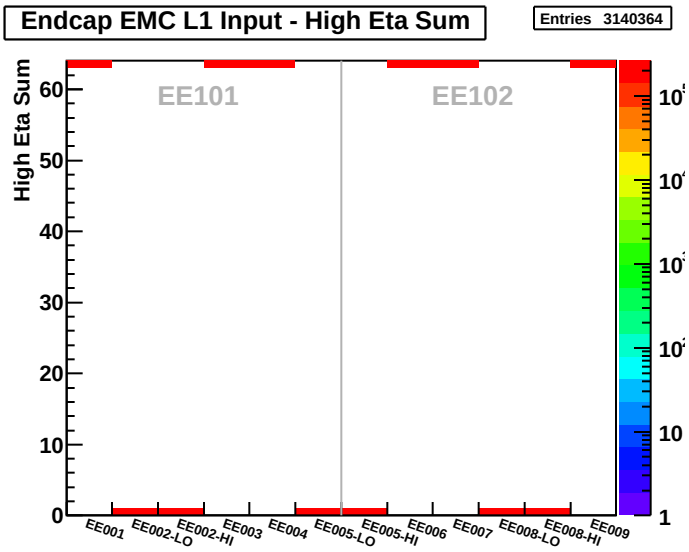

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

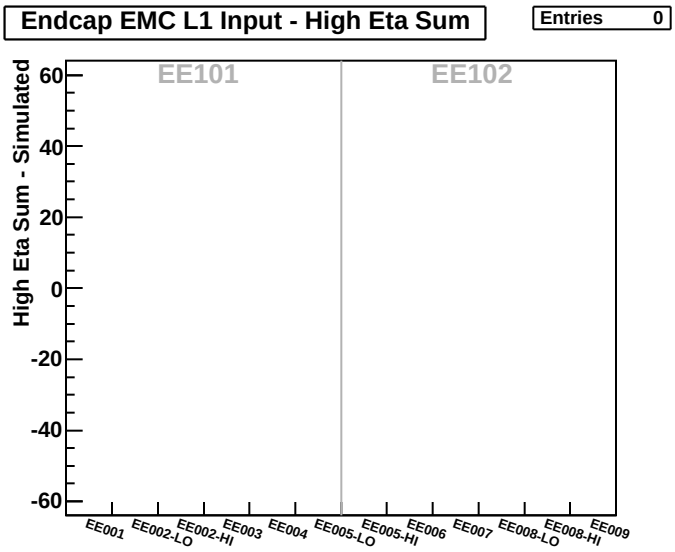

Barrel EMC L1 Input - High Tower Bits
Entries 9421092
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

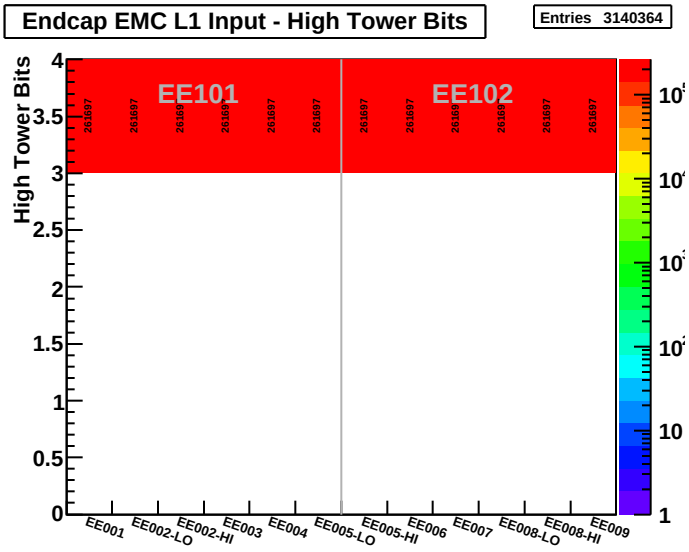

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

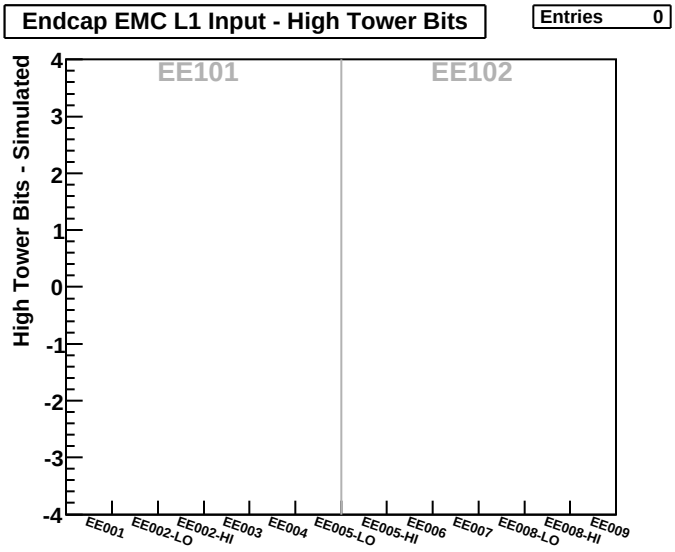

Endcap EMC L1 Input - Low Eta Sum
Entries 3140364
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

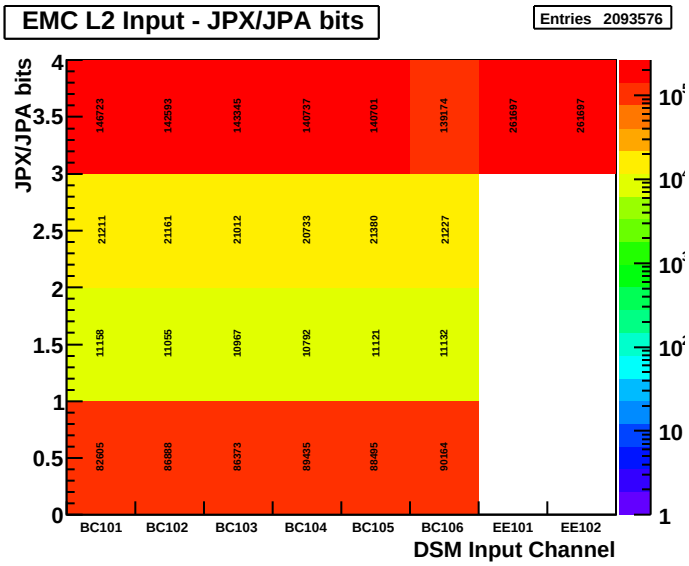

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

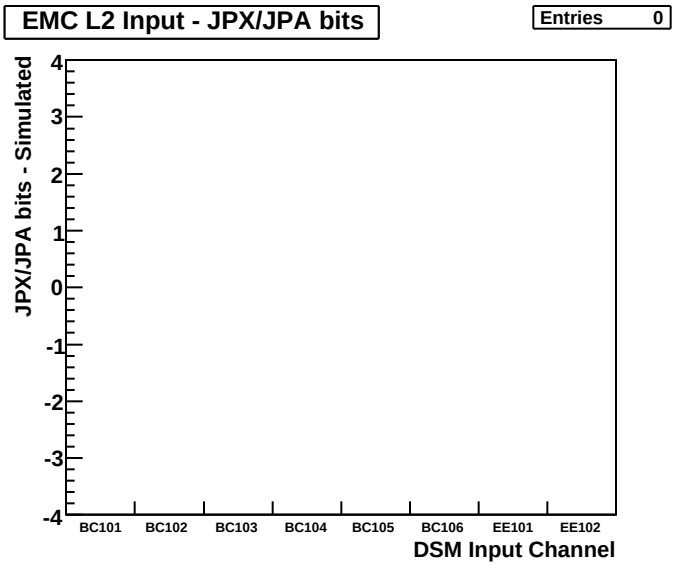

Endcap EMC L1 Input - High Eta Sum
Entries 3140364
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

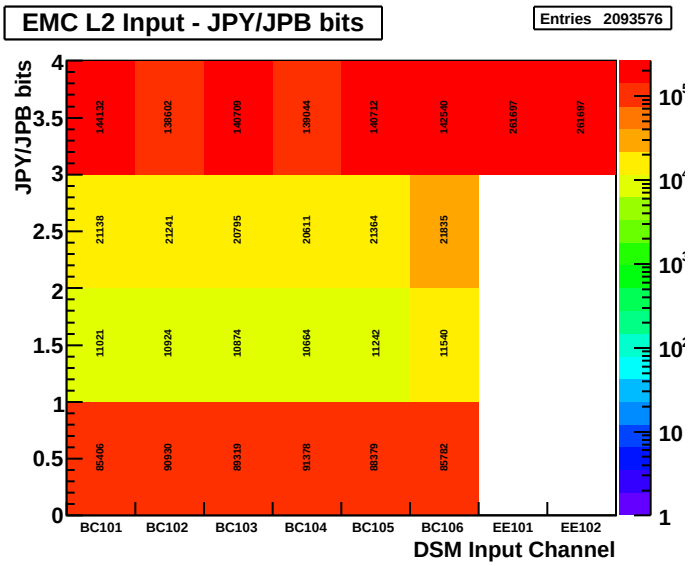

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

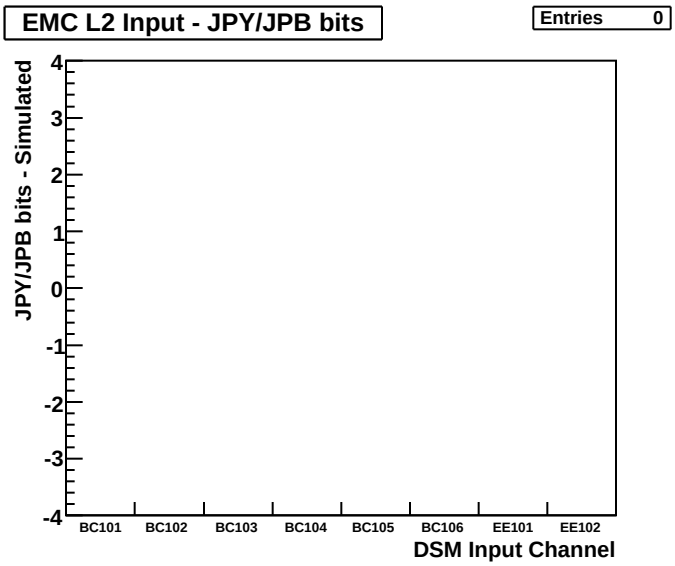

Endcap EMC L1 Input - High Tower Bits
Entries 3140364
High Tower Bits
EE101
EE102
261697
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

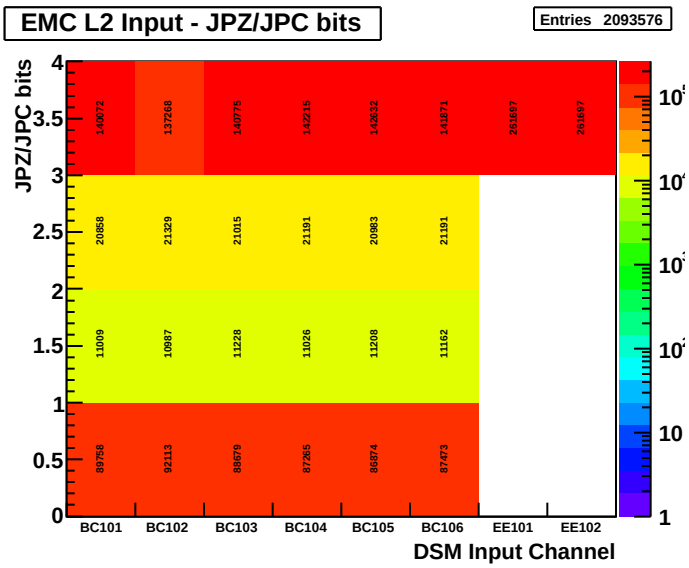

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

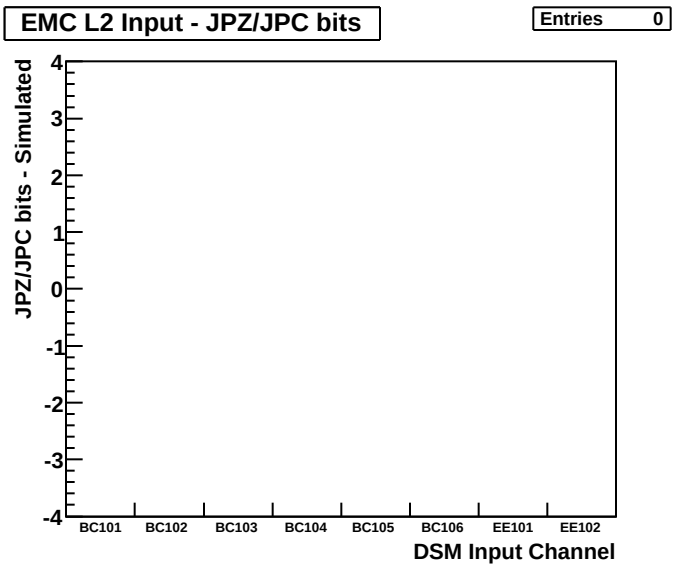

EMC L2 Input - JPX/JPA bits
Entries 2093576
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
146723 142593 143345 140737 140701 139174 261697 261697
21211 21161 21012 20733 21380 21227
11158 11055 10967 10792 11121 11132
82605 86888 86373 89435 89495 90164

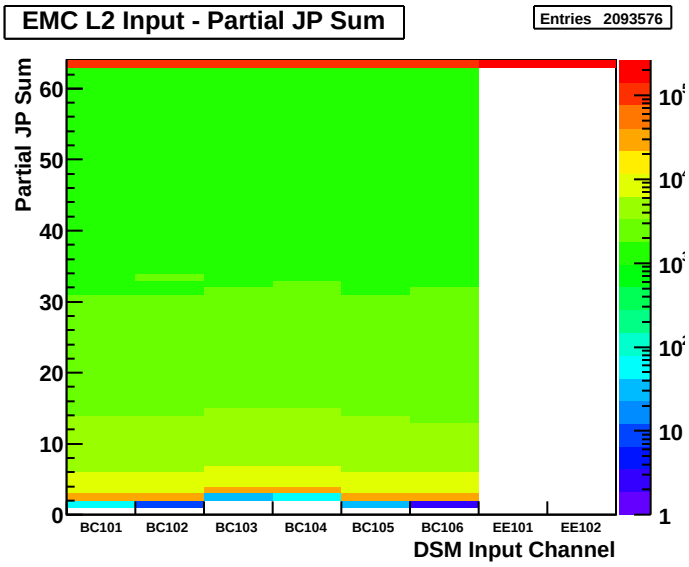

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

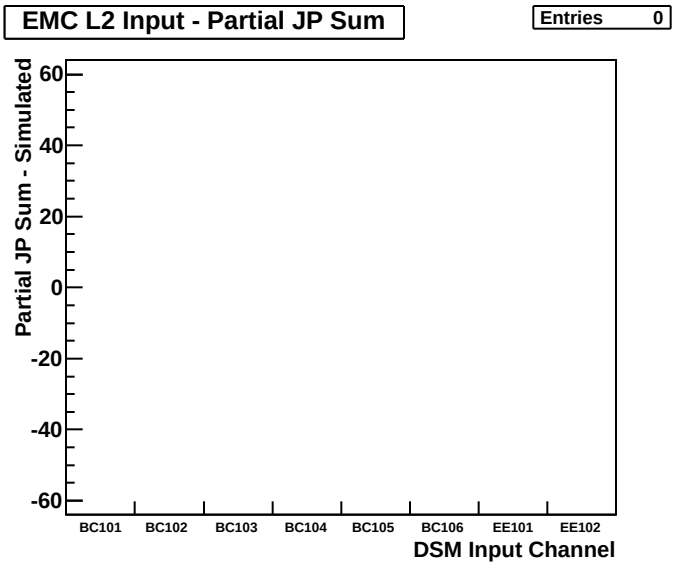

EMC L2 Input - JPY/JPB bits
Entries 2093576
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
144132 138602 140709 139044 140712 142540 261697 261697
21138 21241 20795 20611 21364 21835
11021 10924 10874 10664 11242 11540
85406 90930 89319 91378 88379 85782

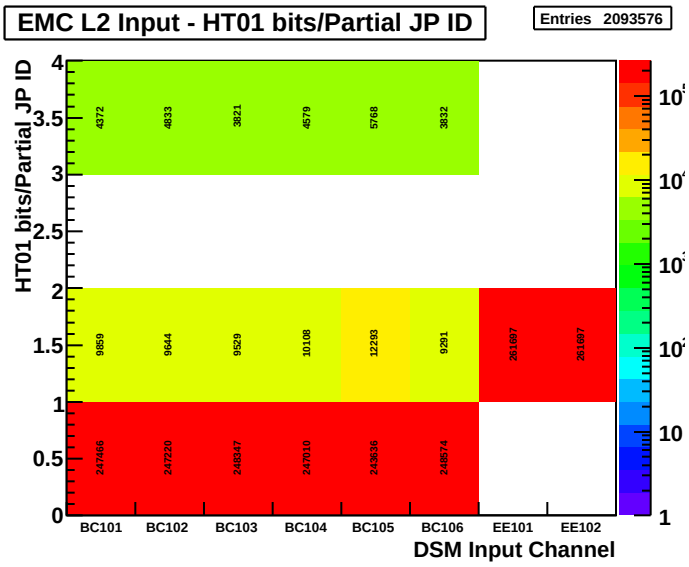

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

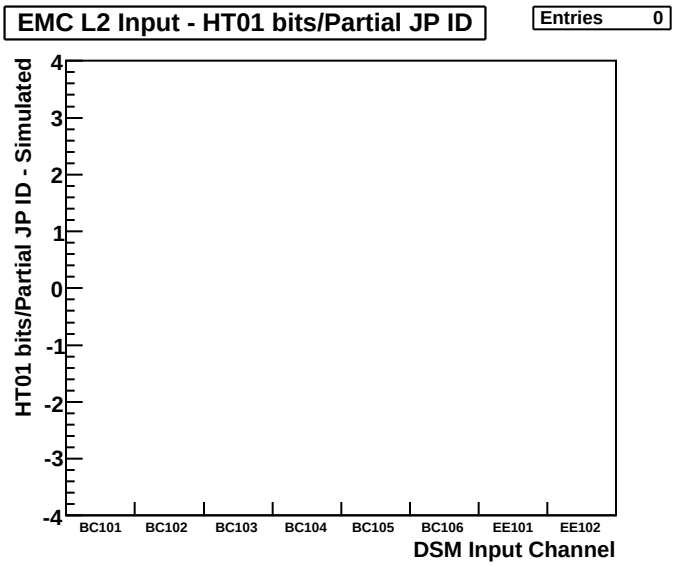

EMC L2 Input - JPZ/JPC bits
Entries 2093576
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
140072 137268 140775 142215 142632 141871 261697 261697
20658 21329 21015 21191 20983 21191
11009 10987 11228 11026 11208 11162
89758 92113 88679 87265 86874 87473

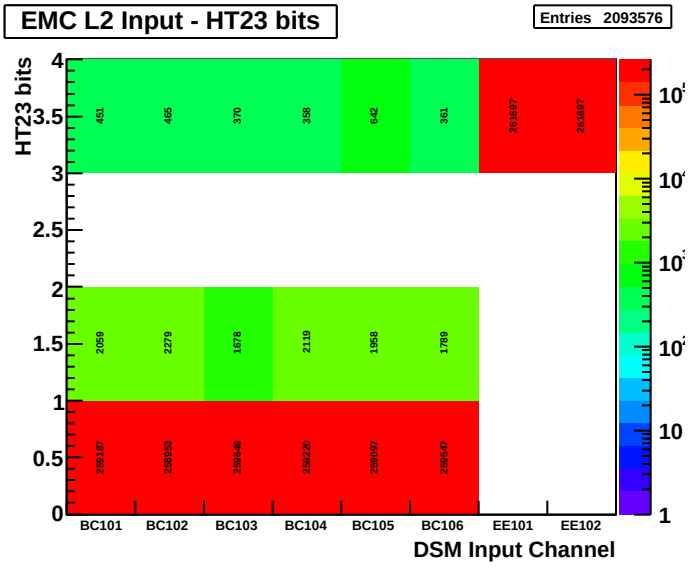

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

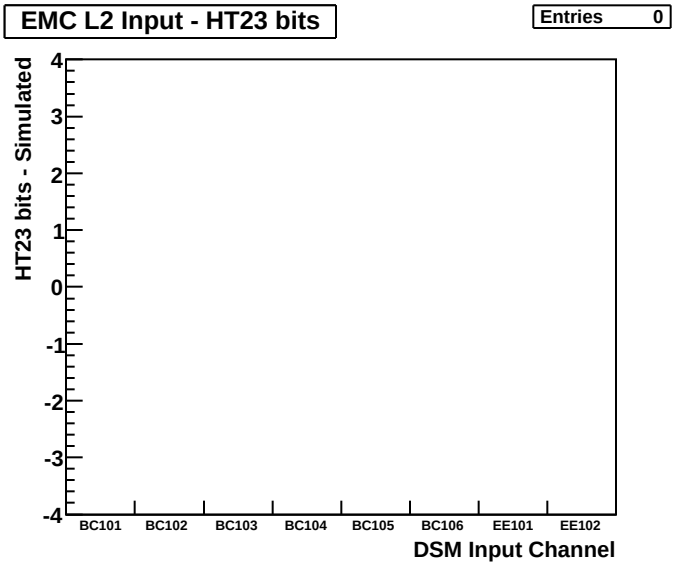

EMC L2 Input - Partial JP Sum
Entries 2093576
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

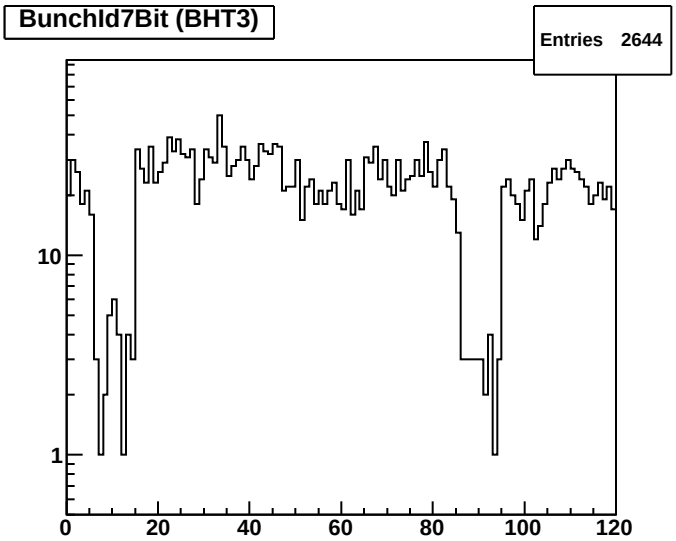

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

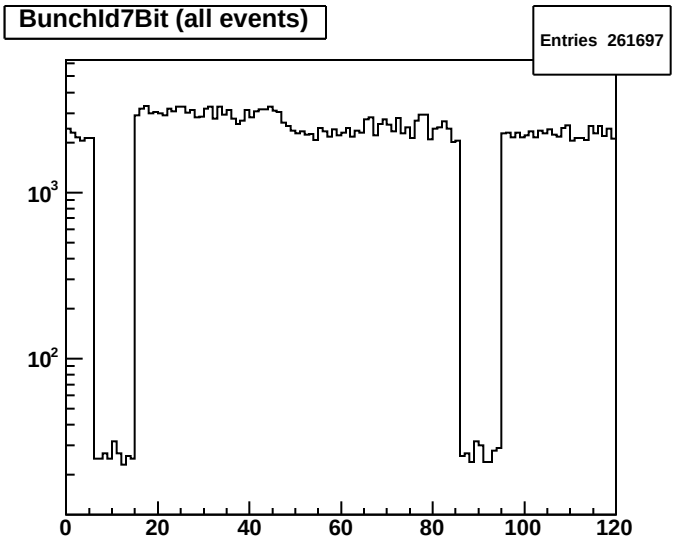

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2093576
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

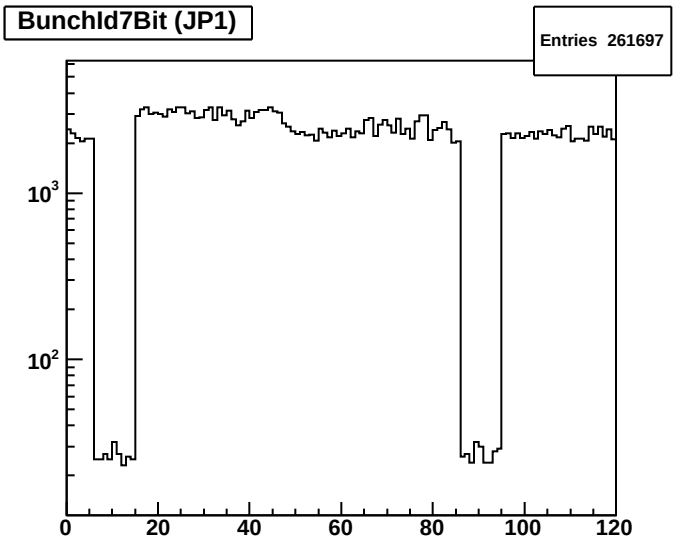

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

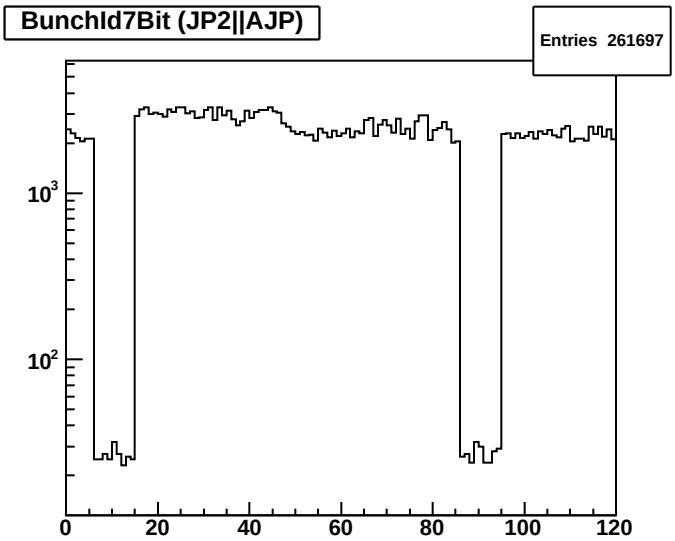

EMC L2 Input - HT23 bits
Entries 2093576
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

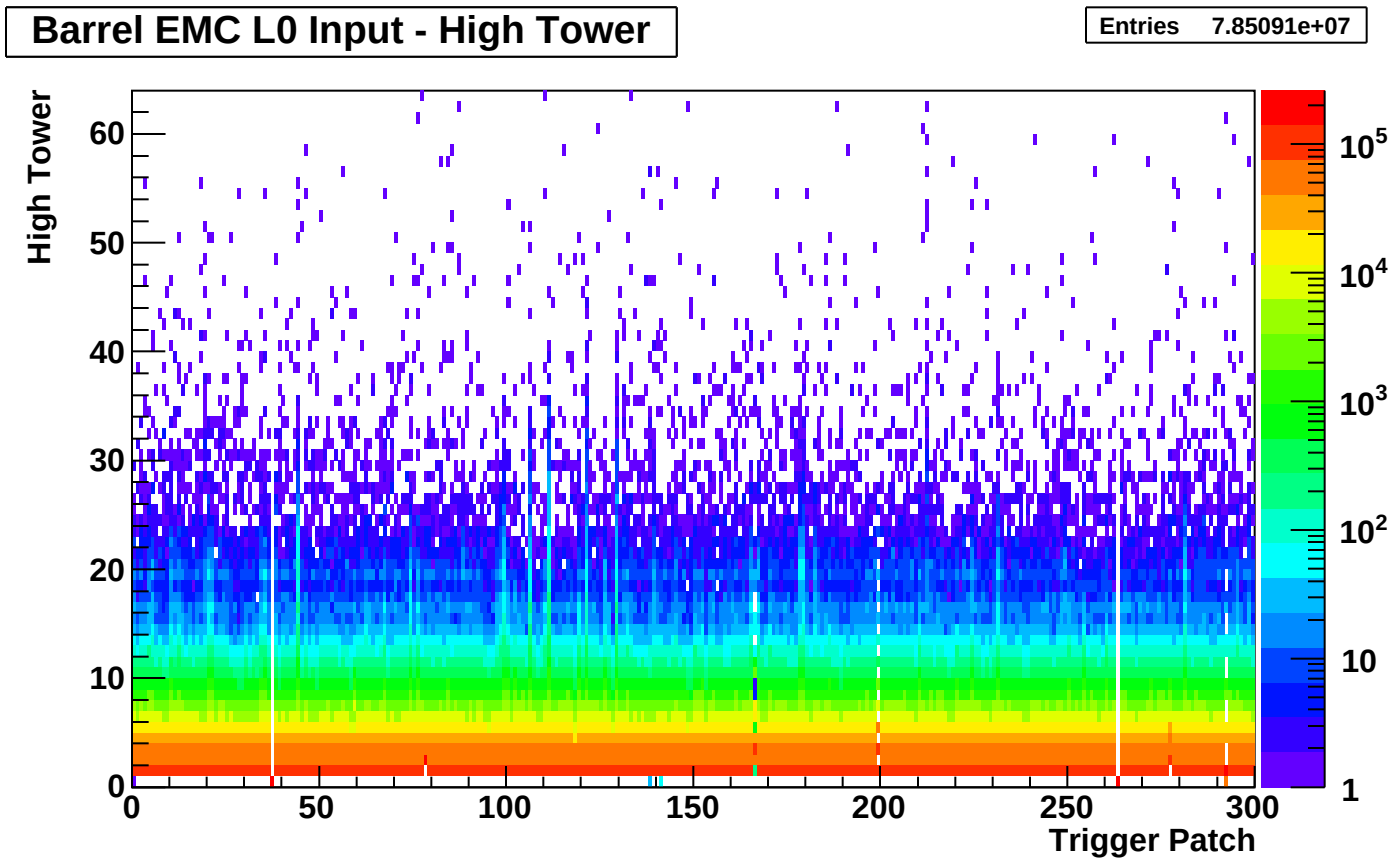

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

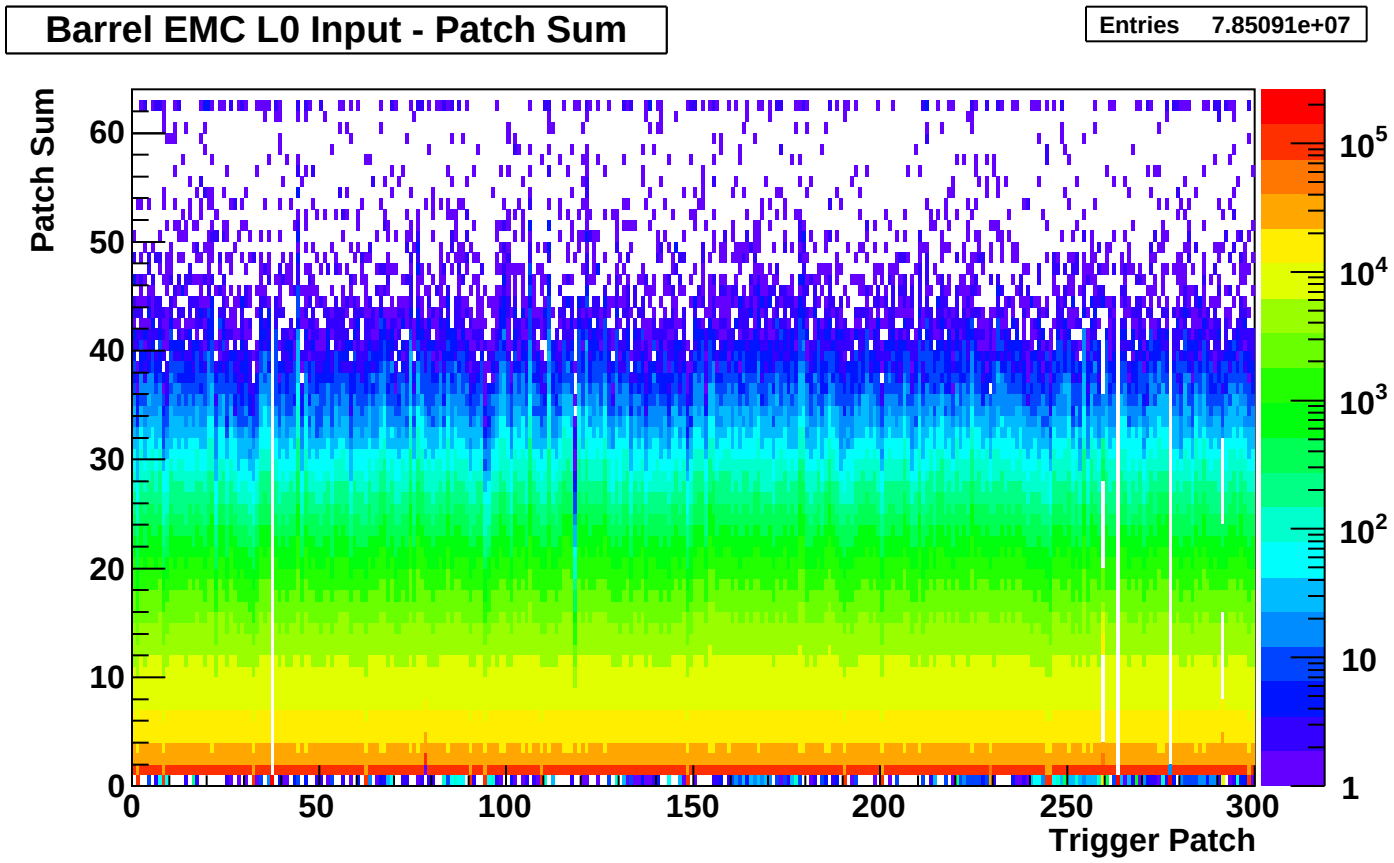

BunchId7Bit (BHT3)
Entries 2644
10
1
0
20
40
60
80
100
120

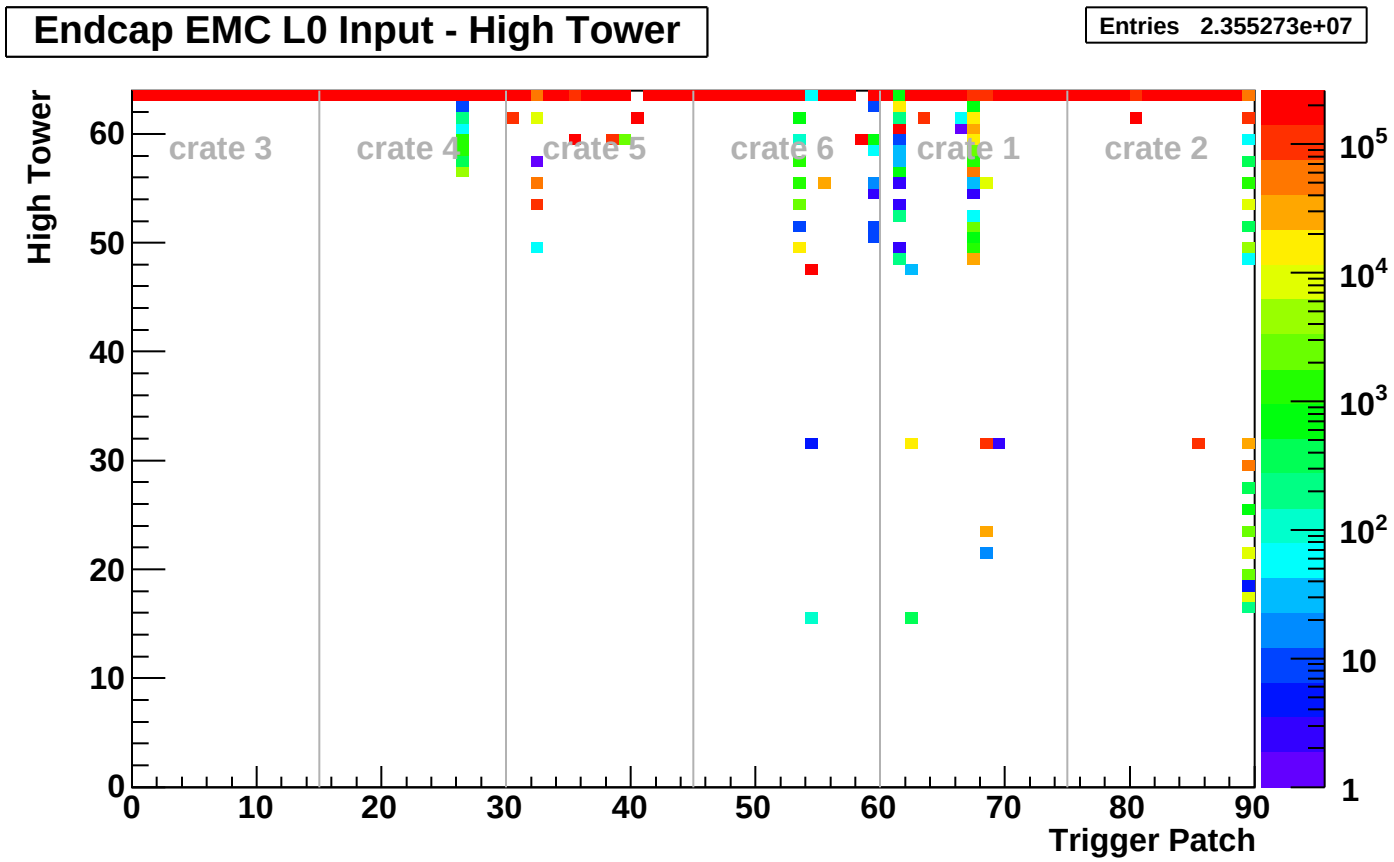

BunchId7Bit (all events)
Entries 261697
10^3
10^2
0
20
40
60
80
100
120

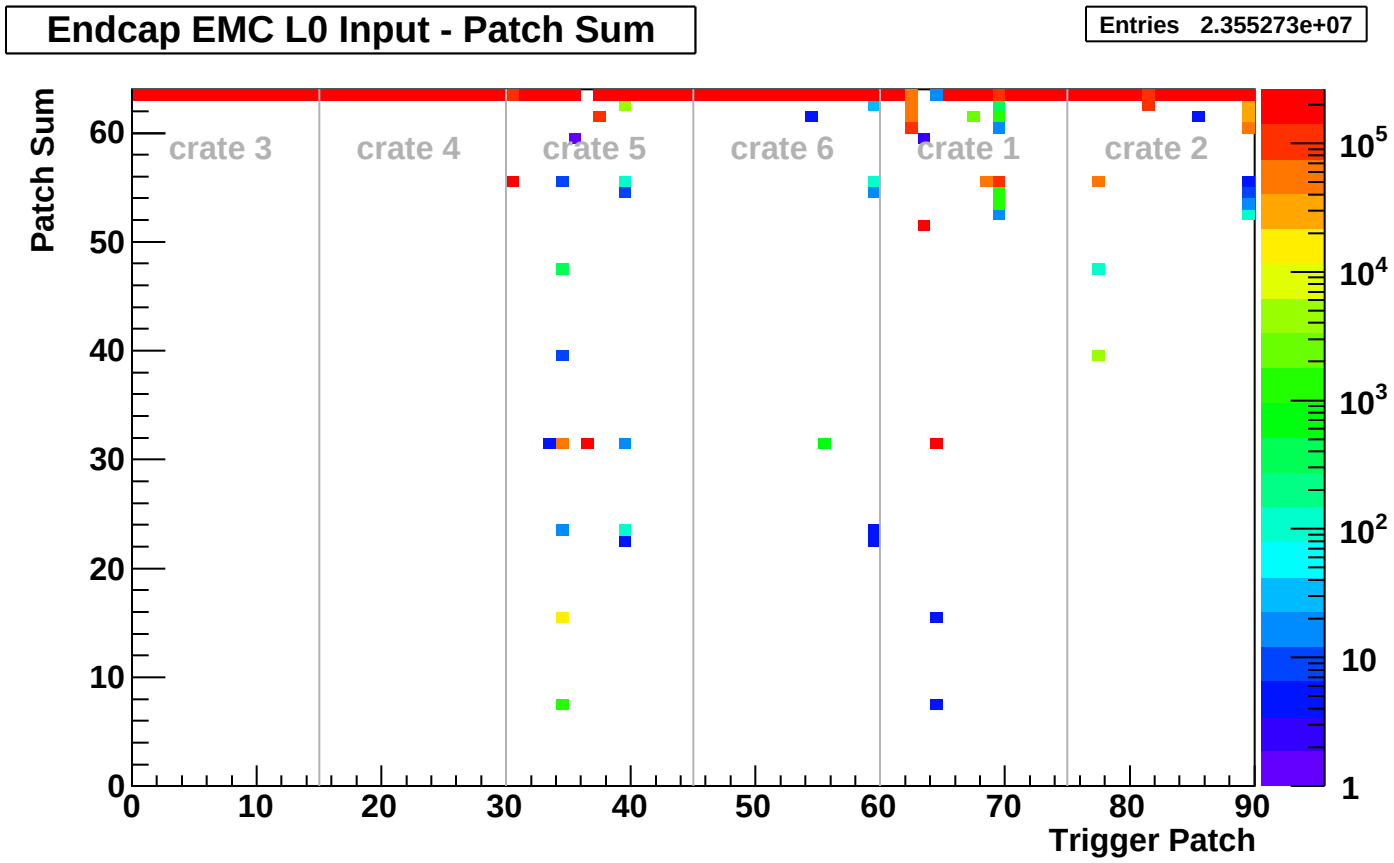

BunchId7Bit (JP1)
Entries 261697
10^3
10^2
0
20
40
60
80
100
120

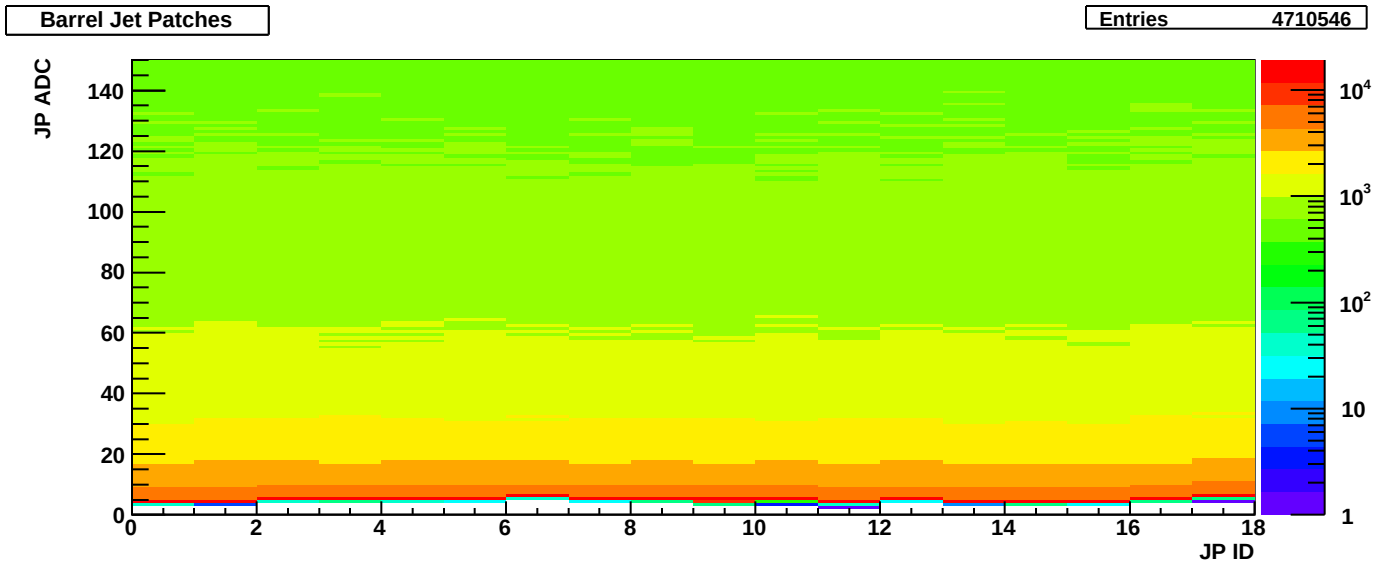

BunchId7Bit (JP2||AJP)
Entries 261697
10^3
10^2
0
20
40
60
80
100
120

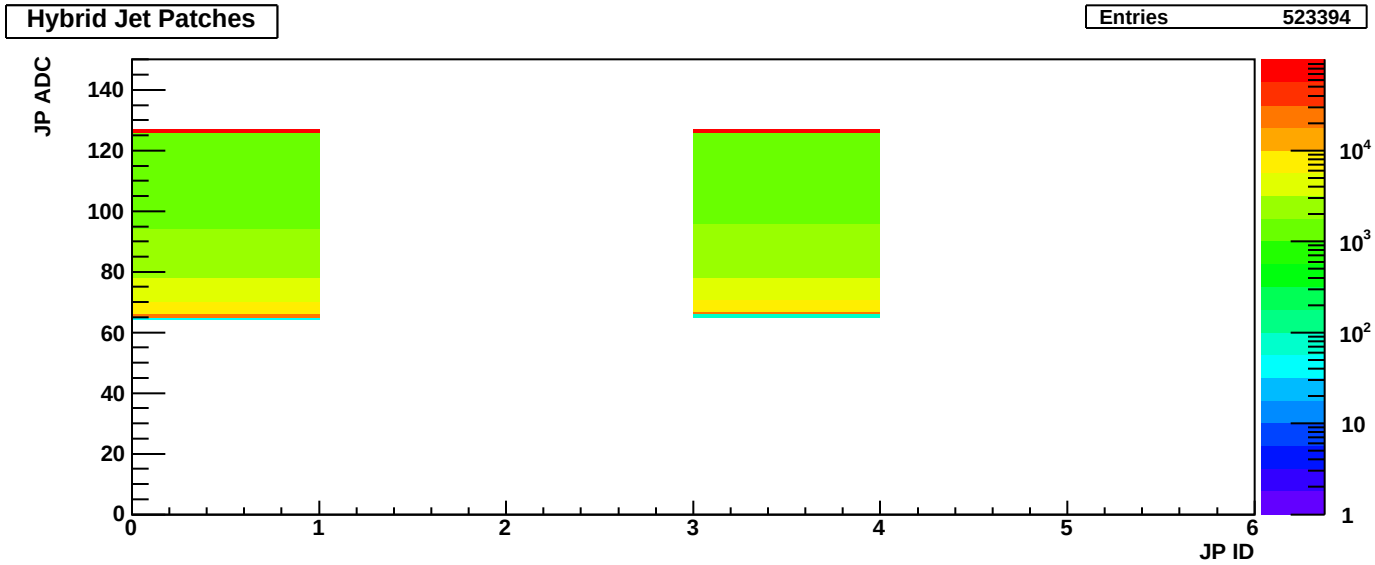

Barrel EMC L0 Input - High Tower
Entries 7.85091e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

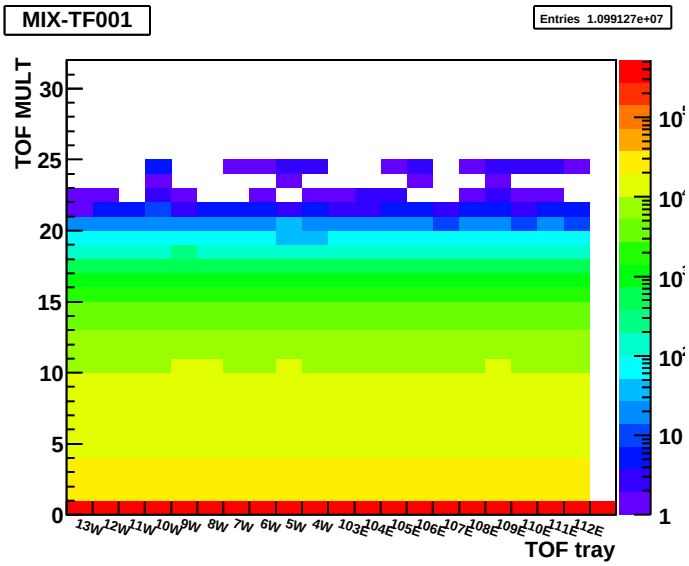

Barrel EMC L0 Input - Patch Sum
Entries 7.85091e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

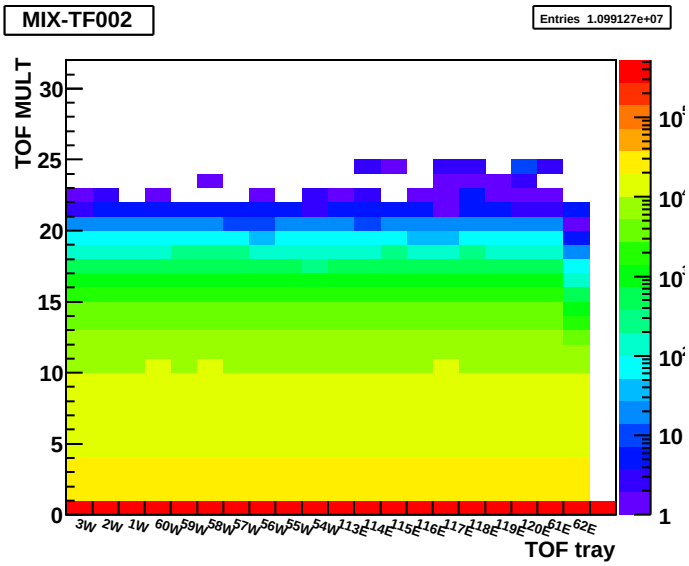

Endcap EMC L0 Input - High Tower
Entries 2.355273e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

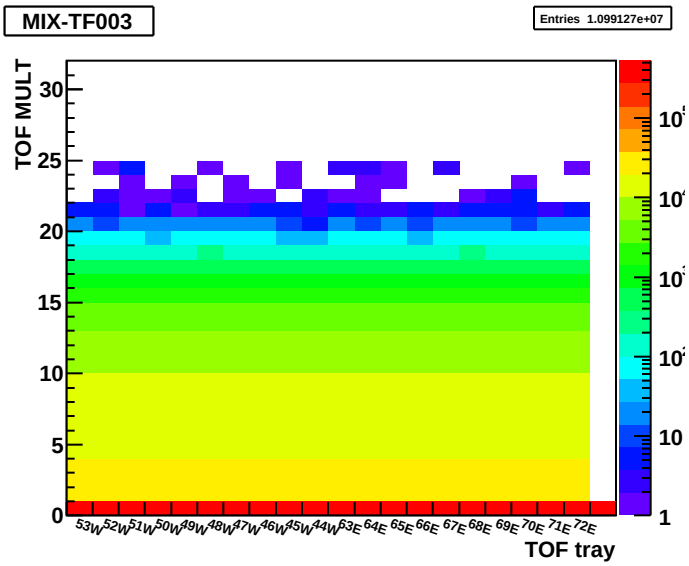

Endcap EMC L0 Input - Patch Sum
Entries 2.355273e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

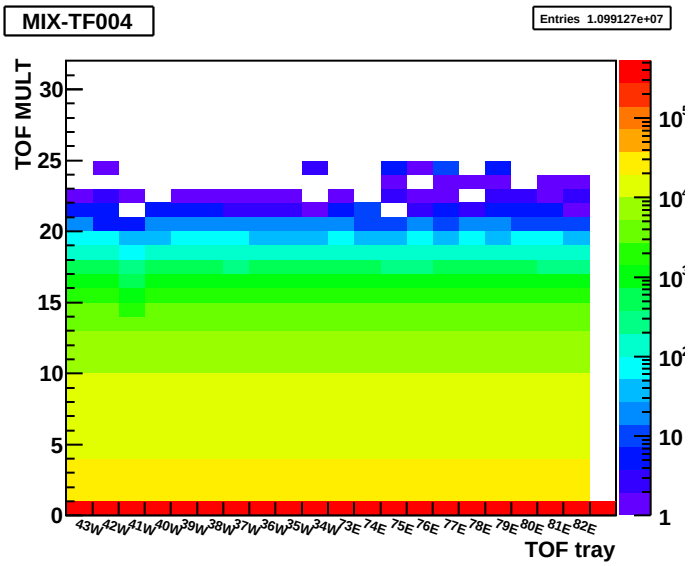

Barrel Jet Patches
Entries 4710546
JP ADC
JP ID

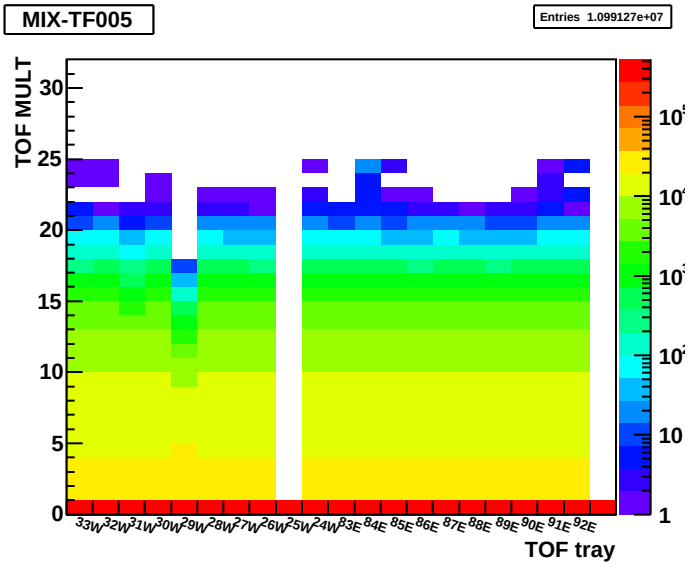

Hybrid Jet Patches
Entries 523394
JP ADC
JP ID

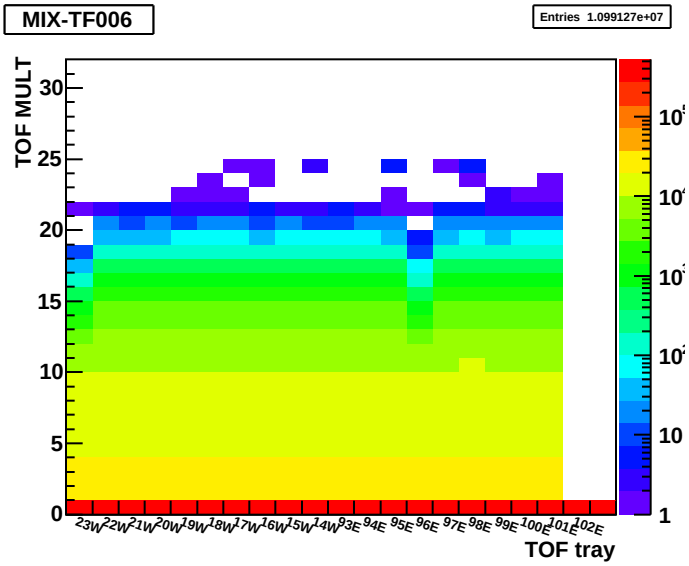

MIX-TF001
Entries 1.099127e+07
TOF MULT
TOF tray

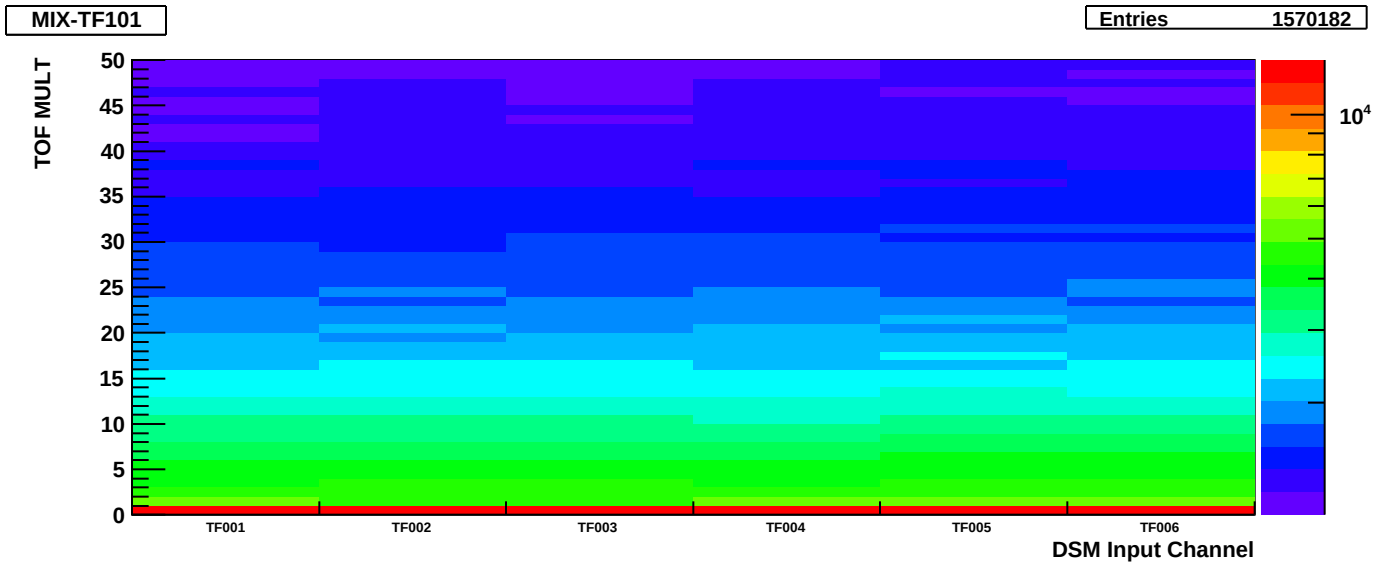

MIX-TF002
Entries 1.099127e+07
TOF MULT
TOF tray

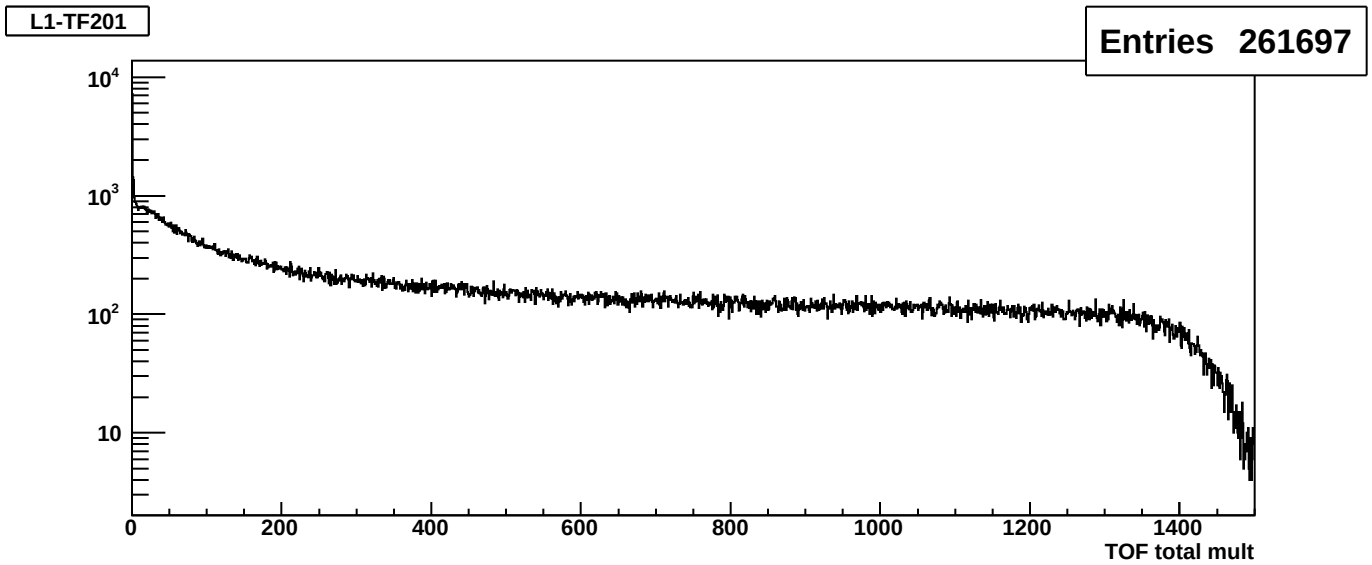

MIX-TF003
Entries 1.099127e+07
TOF MULT
TOF tray

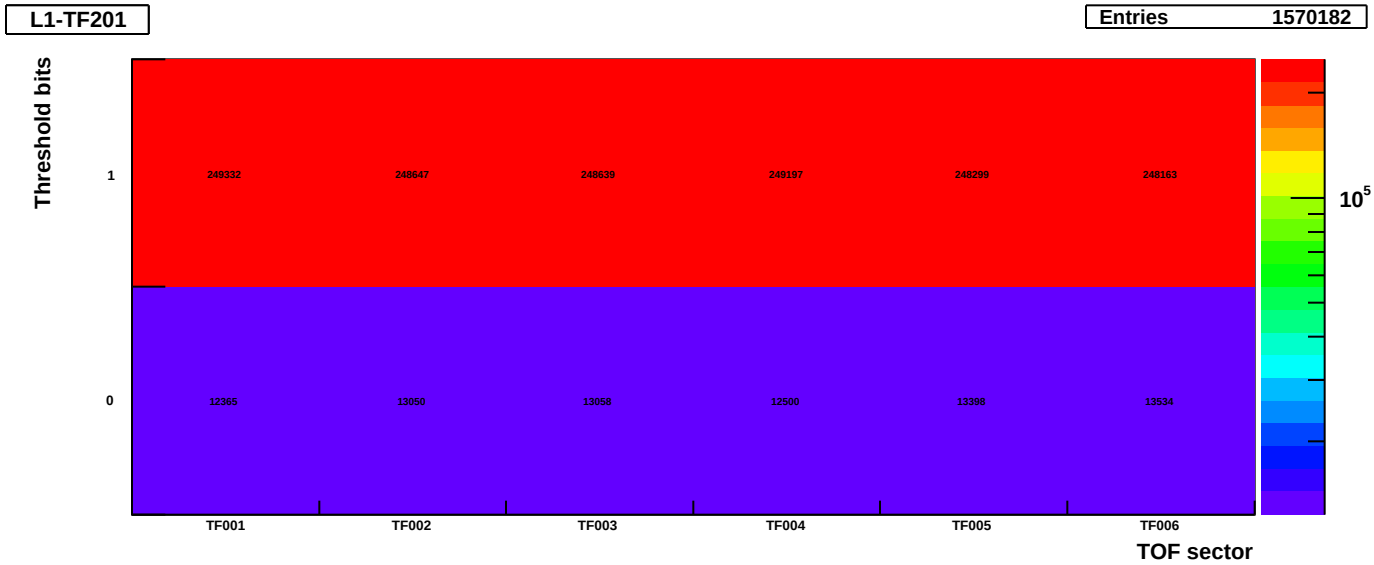

MIX-TF004
Entries 1.099127e+07
TOF MULT
TOF tray

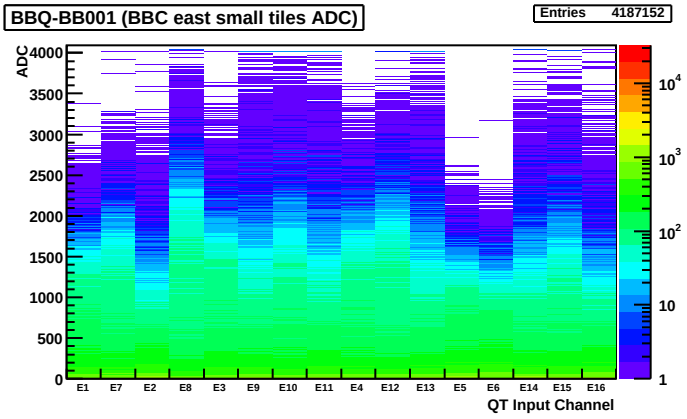

MIX-TF005
Entries 1.099127e+07
TOF MULT
TOF tray

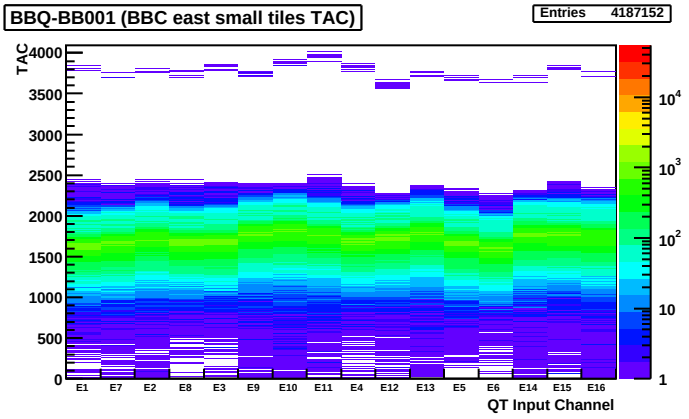

MIX-TF006
Entries 1.099127e+07
TOF MULT
TOF tray

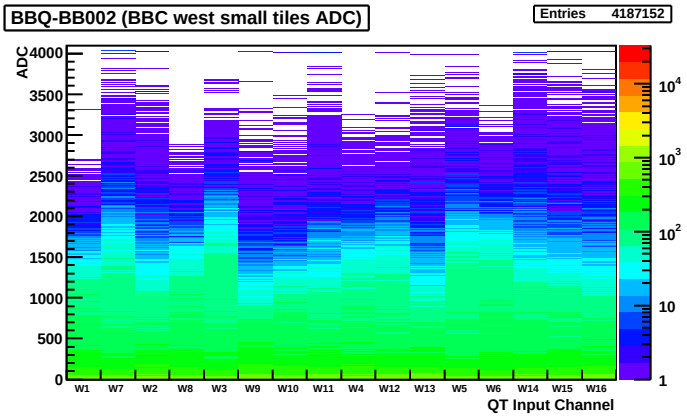

MIX-TF101
Entries 1570182
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

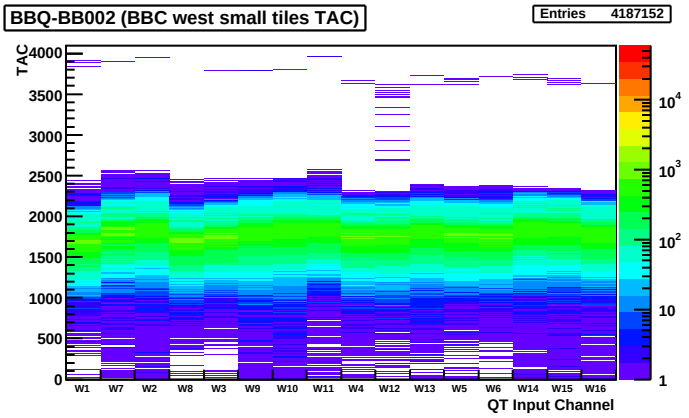

L1-TF201
Entries 261697
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

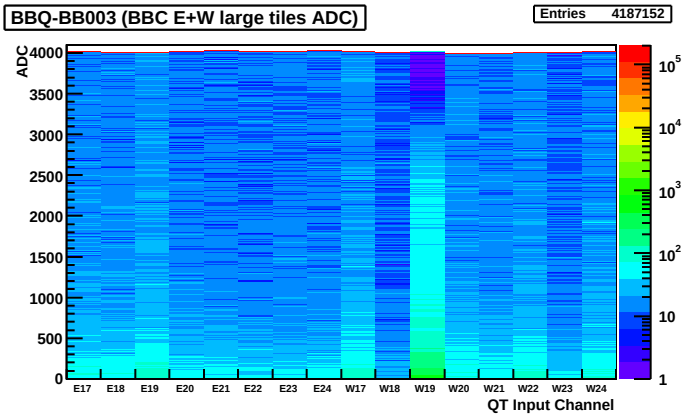

L1-TF201
Entries 1570182
Threshold bits
1
0
249332
248647
248639
249197
248299
248163
12365
13050
13058
12500
13398
13534
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

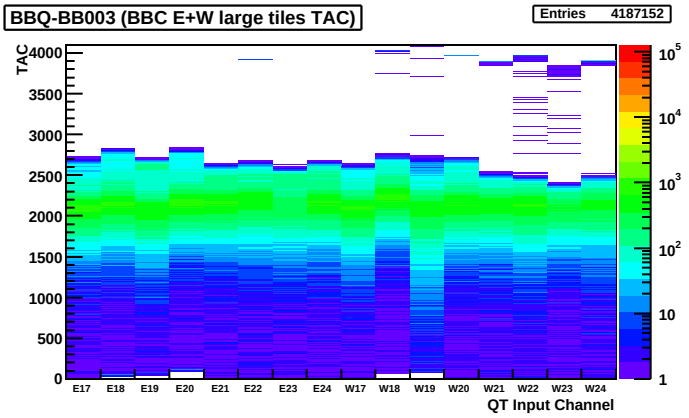

BBQ-BB001 (BBC east small tiles ADC)
Entries 4187152
ADC
QT Input Channel

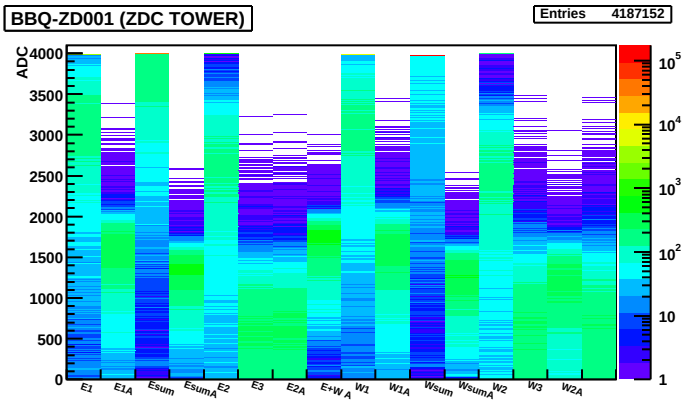

BBQ-BB001 (BBC east small tiles TAC)
Entries 4187152
TAC
QT Input Channel

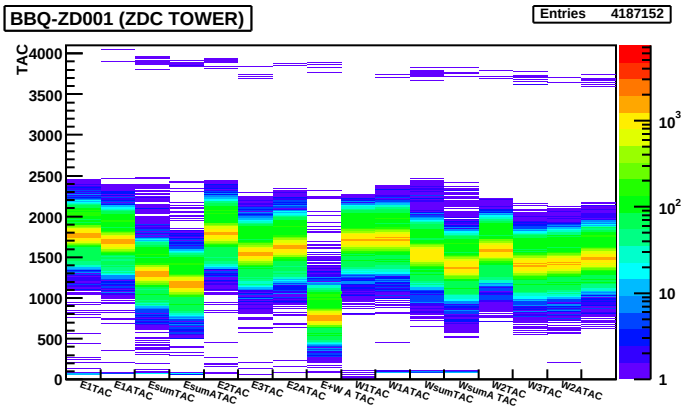

BBQ-BB002 (BBC west small tiles ADC)
Entries 4187152
ADC
QT Input Channel

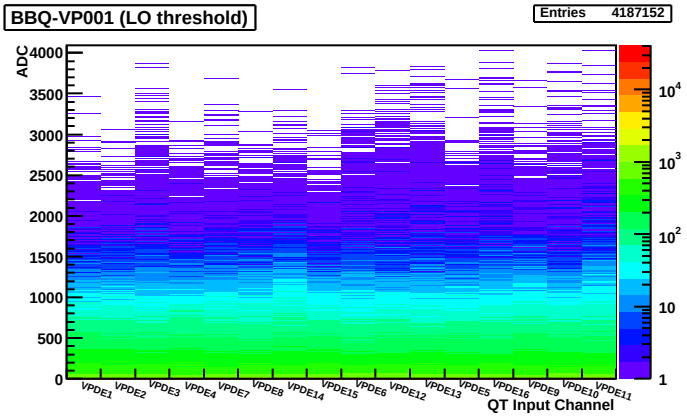

BBQ-BB002 (BBC west small tiles TAC)
Entries 4187152
TAC
QT Input Channel

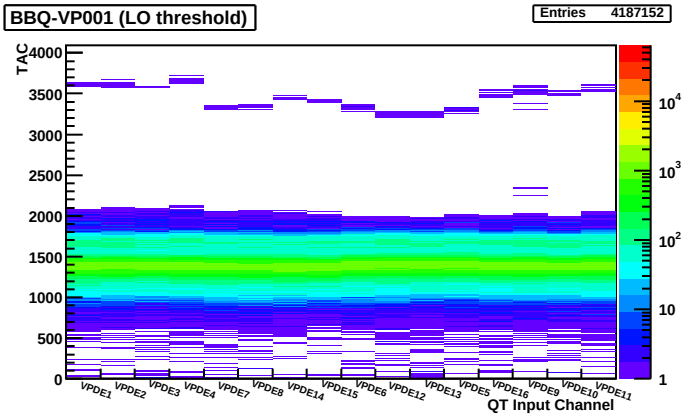

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 4187152
ADC
QT Input Channel

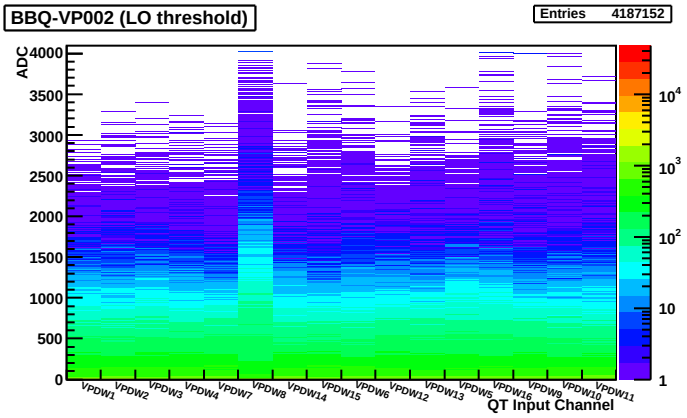

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 4187152
TAC
QT Input Channel

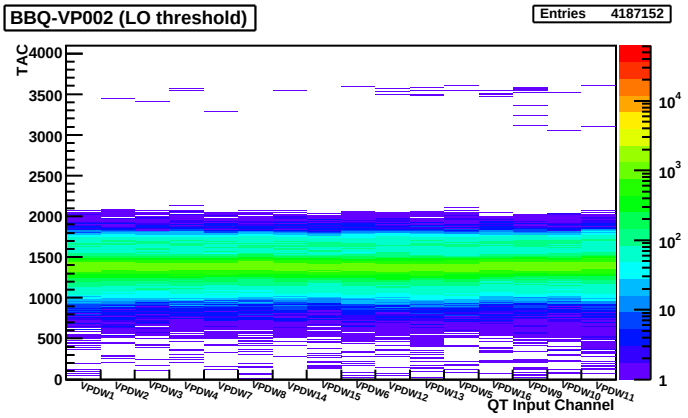

BBQ-ZD001 (ZDC TOWER)
Entries 4187152
ADC

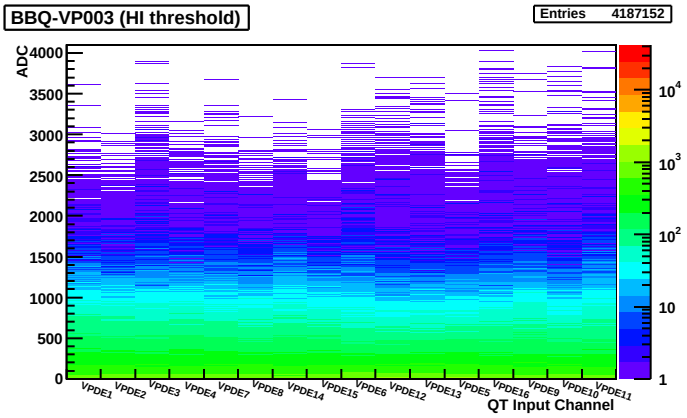

BBQ-ZD001 (ZDC TOWER)
Entries 4187152
TAC

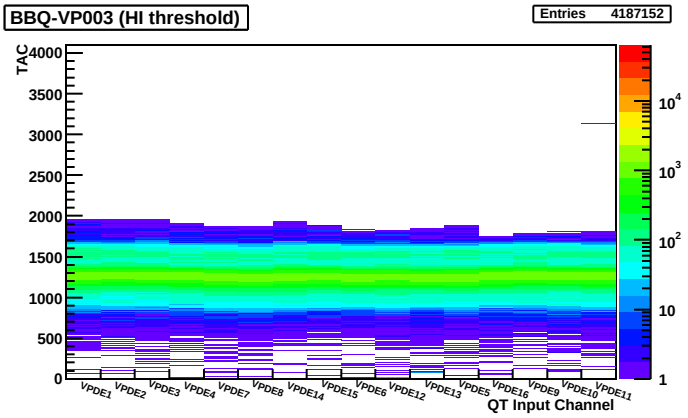

BBQ-VP001 (LO threshold)
Entries 4187152
ADC
QT Input Channel

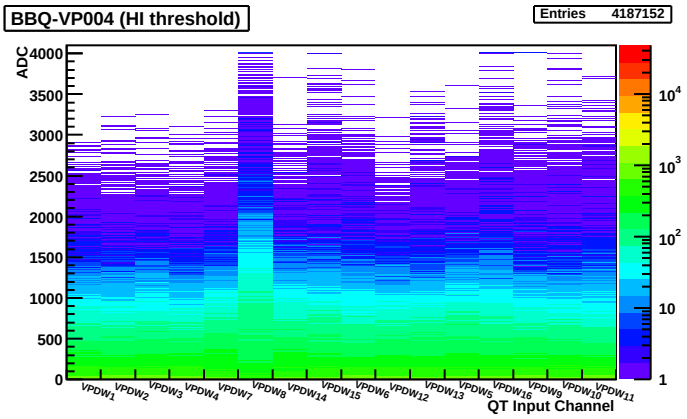

BBQ-VP001 (LO threshold)
Entries 4187152
TAC
QT Input Channel

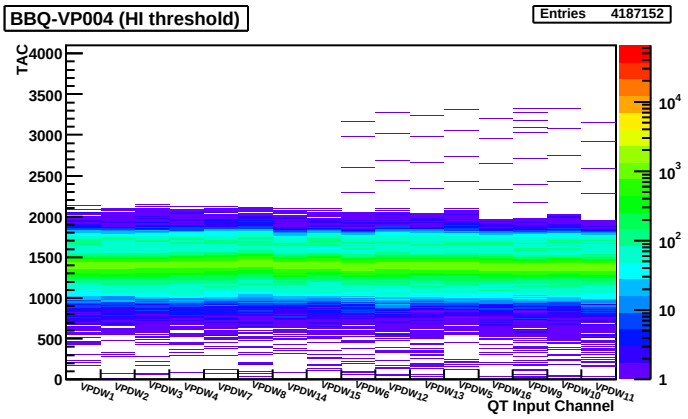

BBQ-VP002 (LO threshold)
Entries 4187152
ADC
QT Input Channel

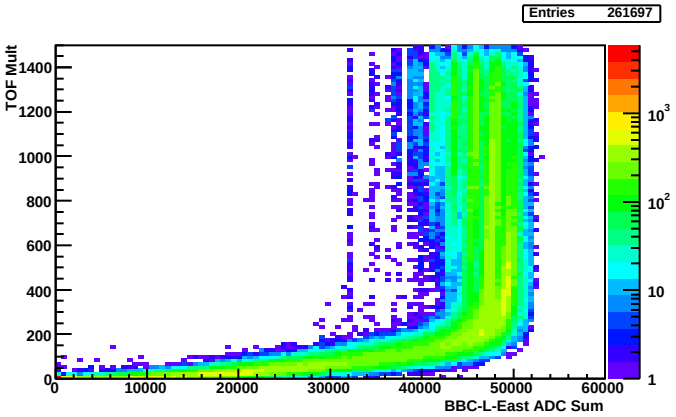

BBQ-VP002 (LO threshold)
Entries 4187152
TAC
QT Input Channel

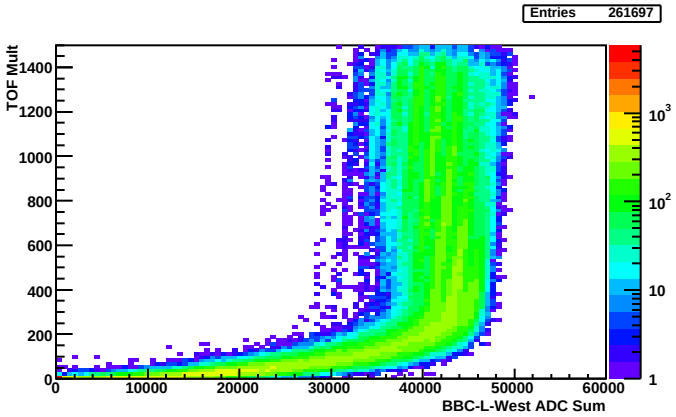

BBQ-VP003 (HI threshold)
Entries 4187152
ADC
QT Input Channel

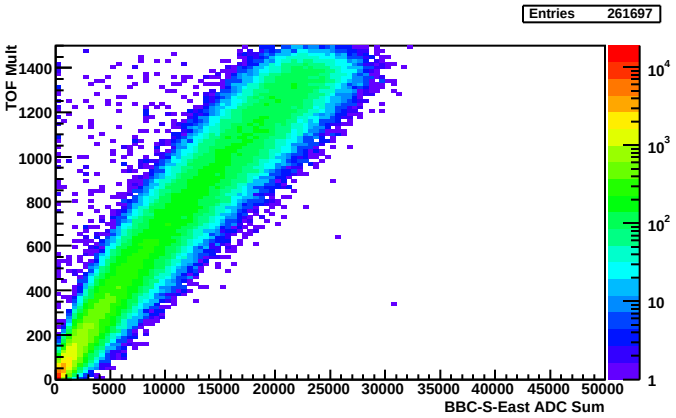

BBQ-VP003 (HI threshold)
Entries 4187152
TAC
QT Input Channel

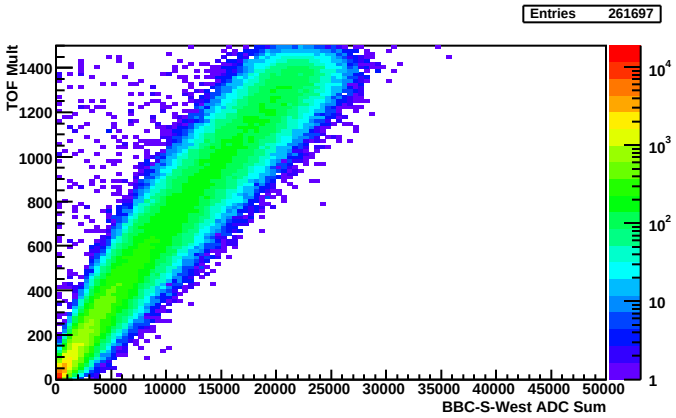

BBQ-VP004 (HI threshold)
Entries 4187152
ADC
QT Input Channel

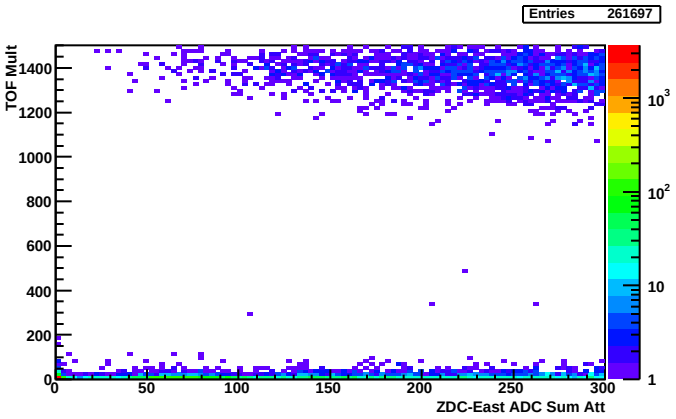

BBQ-VP004 (HI threshold)
Entries 4187152
TAC
QT Input Channel

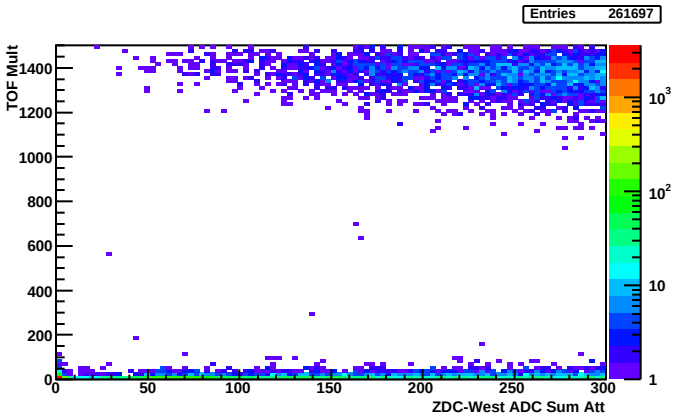

Entries 261697
TOF Mult
BBC-L-East ADC Sum

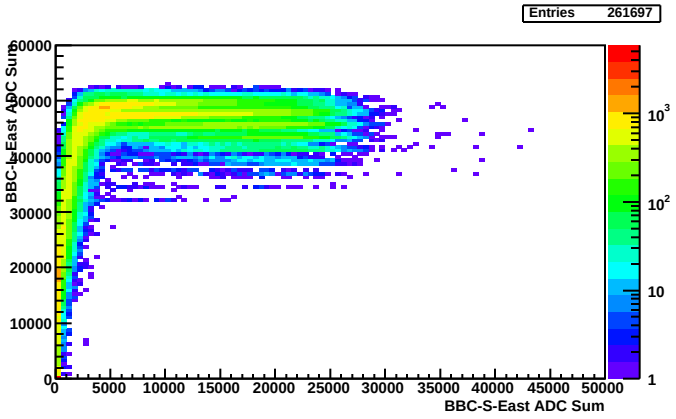

Entries 261697
TOF Mult
BBC-L-West ADC Sum

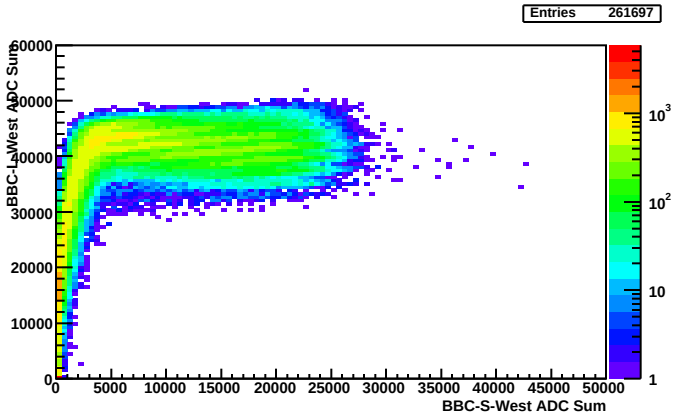

Entries 261697
TOF Mult
BBC-S-East ADC Sum

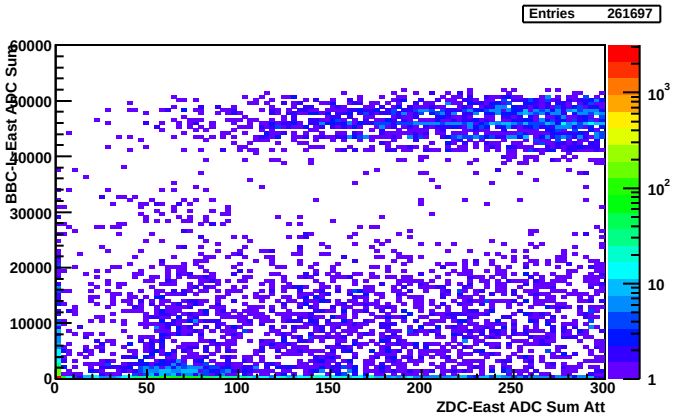

Entries 261697
TOF Mult
BBC-S-West ADC Sum

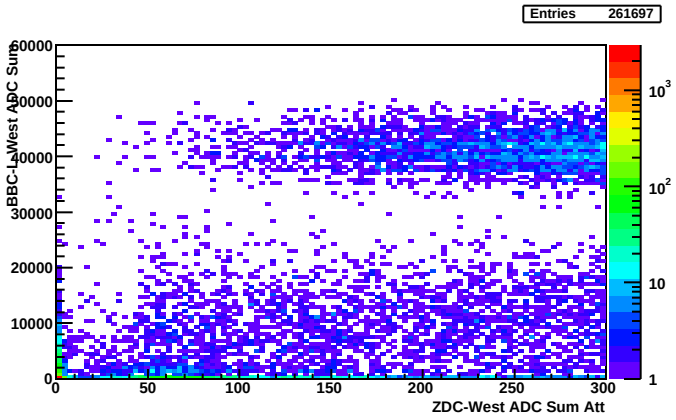

Entries 261697
TOF Mult
ZDC-East ADC Sum Att


Entries 261697
TOF Mult
ZDC-West ADC Sum Att


Entries 261697
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 261697
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 261697
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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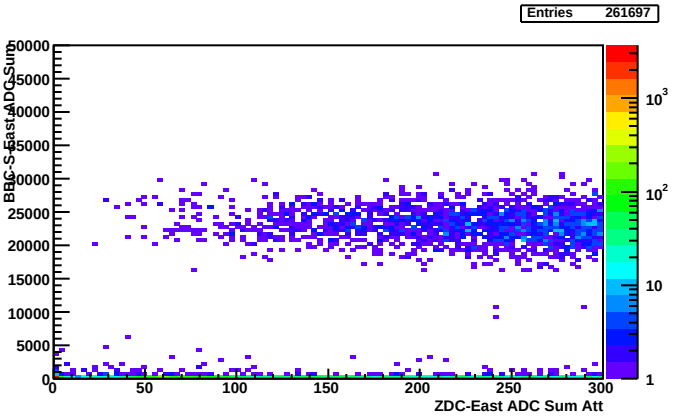
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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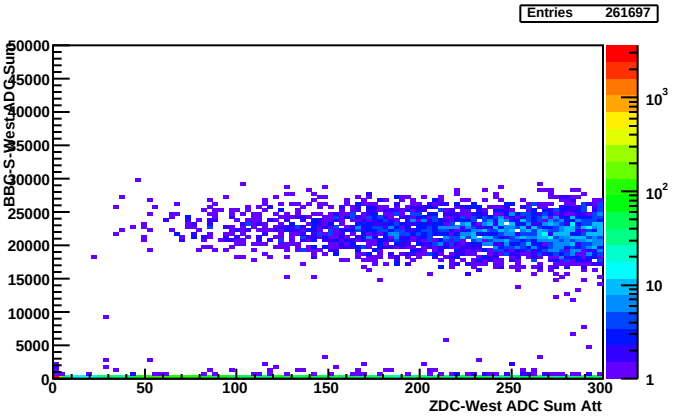
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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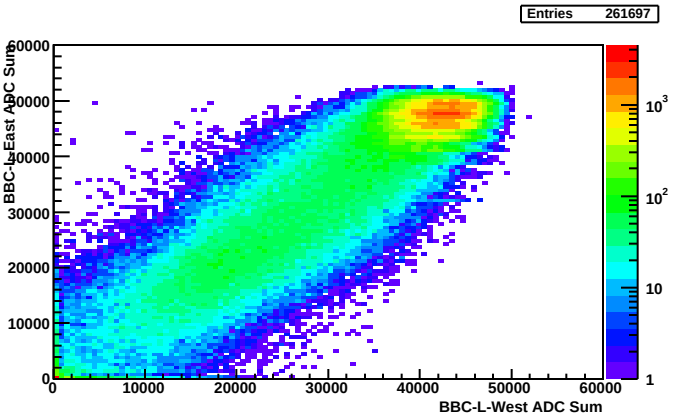
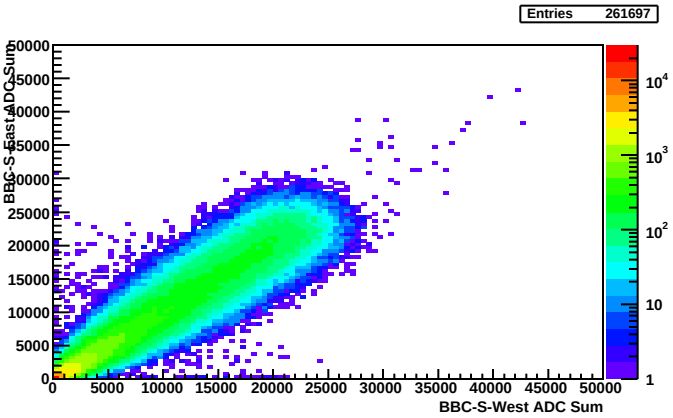
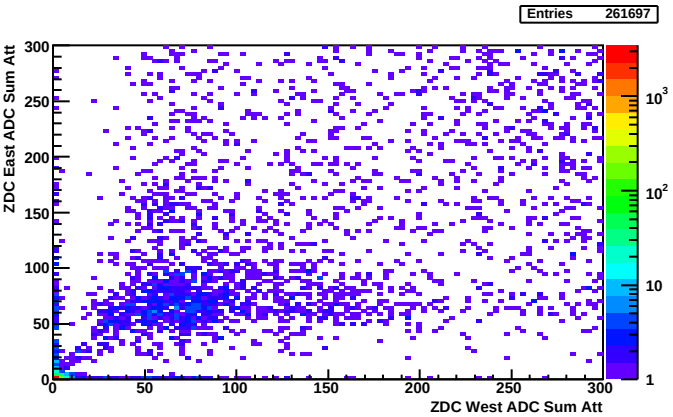
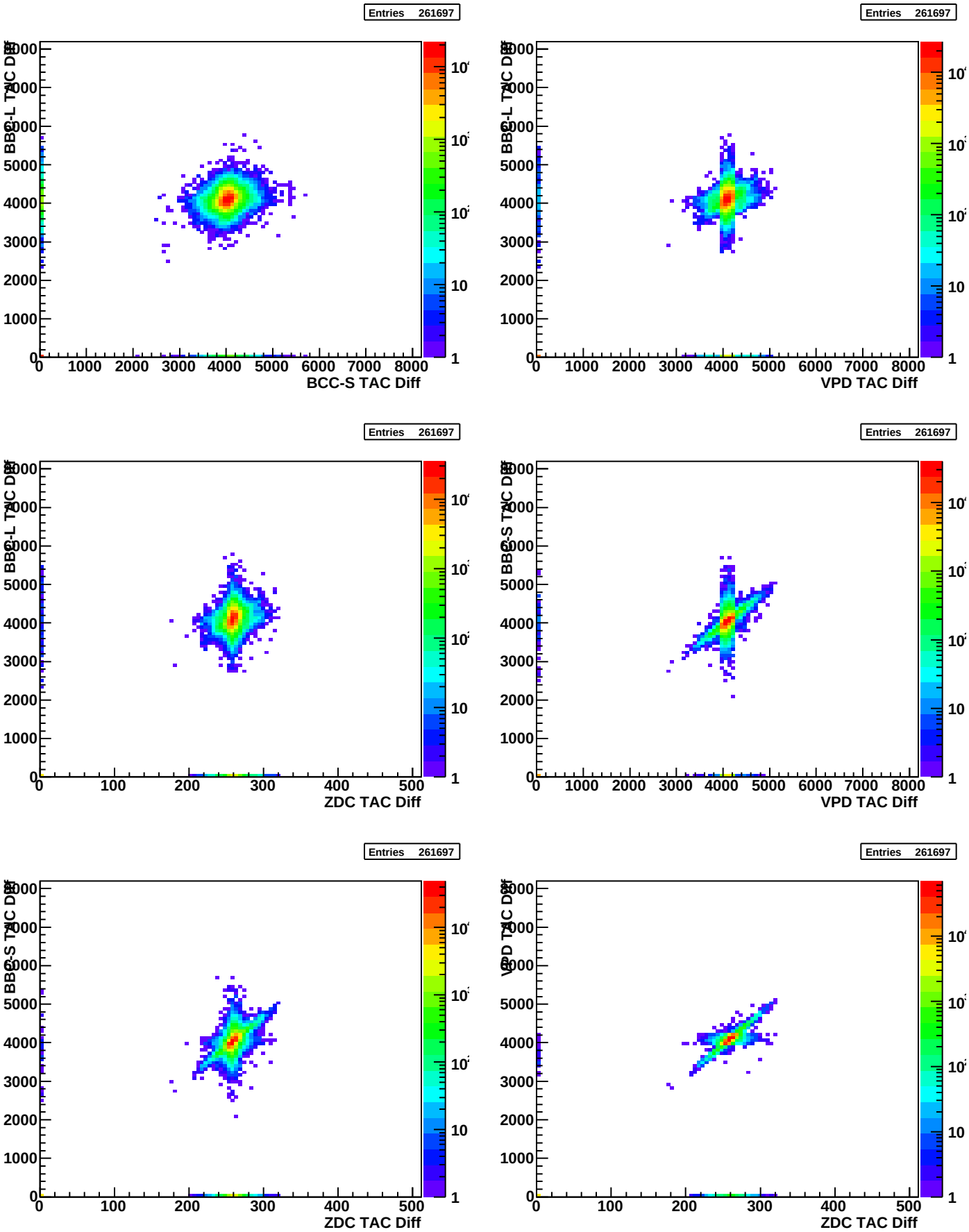
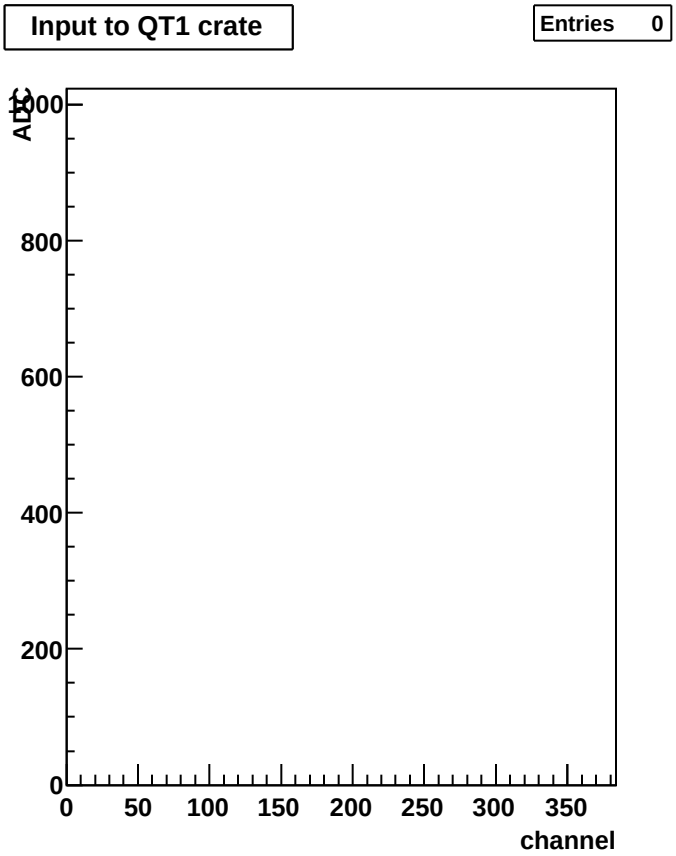
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

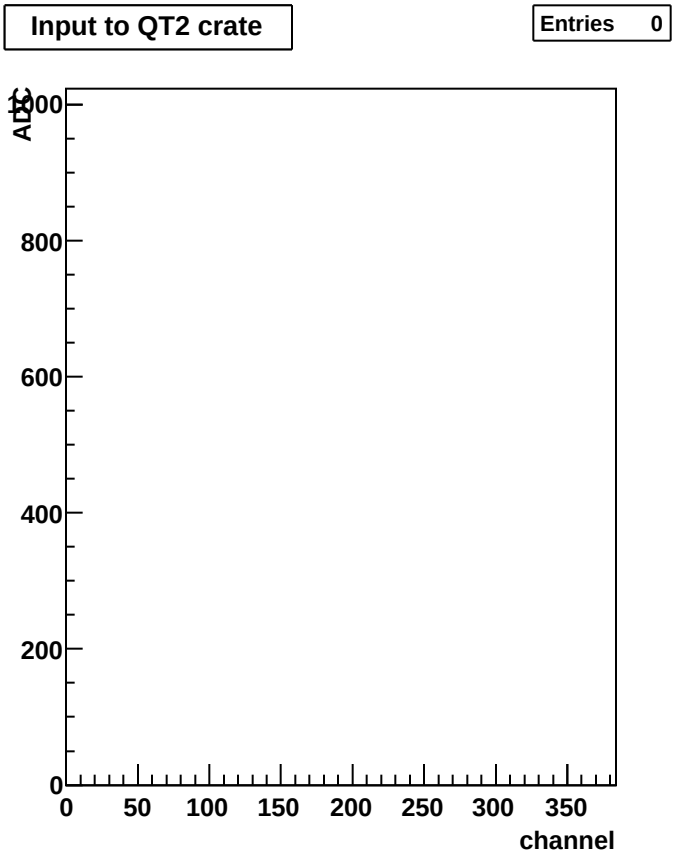

Entries 261697
BBC-L-East ADC Sum
BBC-L-West ADC Sum

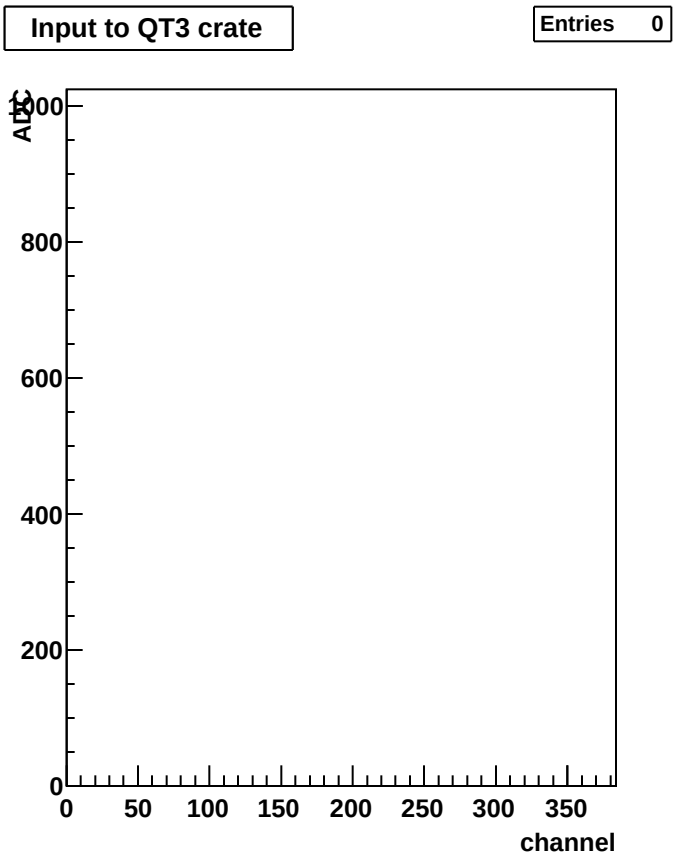

Entries 261697
BBC-S-East ADC Sum
BBC-S-West ADC Sum

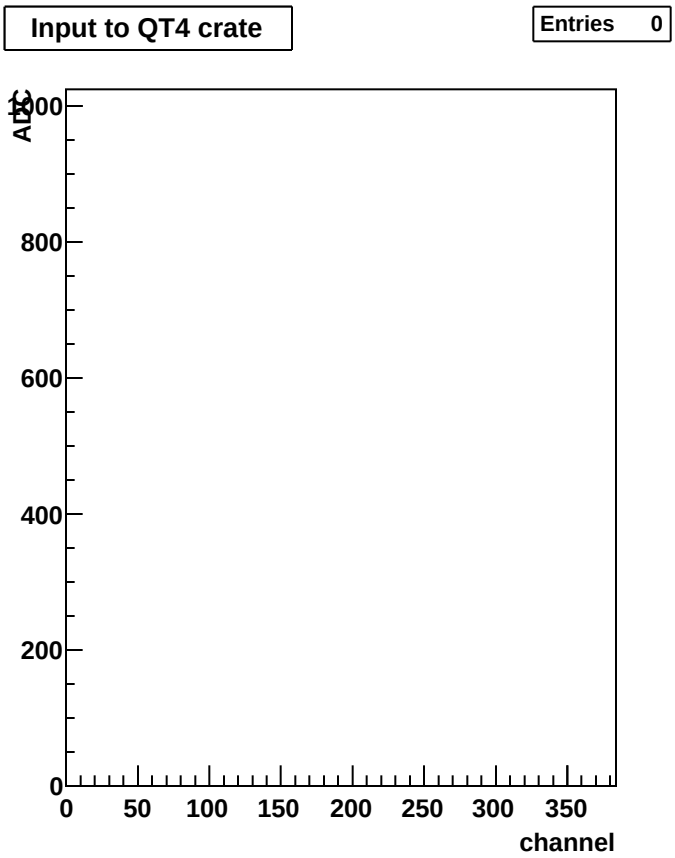

Entries 261697
ZDC East ADC Sum Att
ZDC West ADC Sum Att

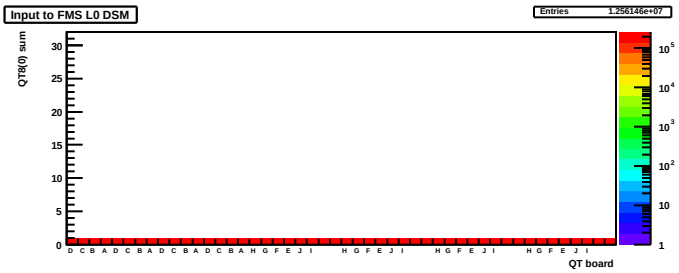

Entries 261697
BBC-L TAC Diff
BCC-S TAC Diff
Entries 261697
BBC-L TAC Diff
VPD TAC Diff
Entries 261697
BBC-L TAC Diff
ZDC TAC Diff
Entries 261697
BBC-S TAC Diff
VPD TAC Diff
Entries 261697
BBC-S TAC Diff
ZDC TAC Diff
Entries 261697
VPD TAC Diff
ZDC TAC Diff

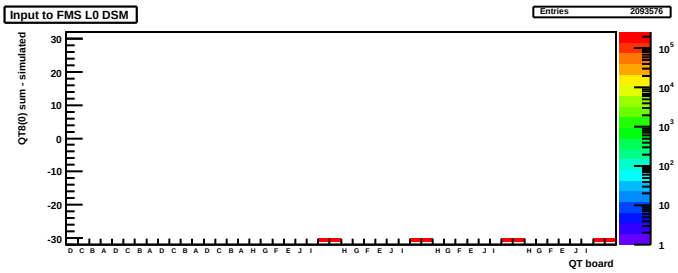

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

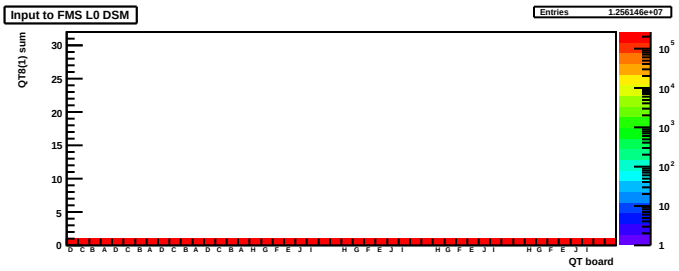

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

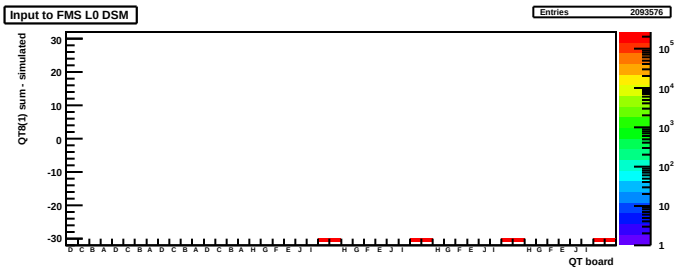

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

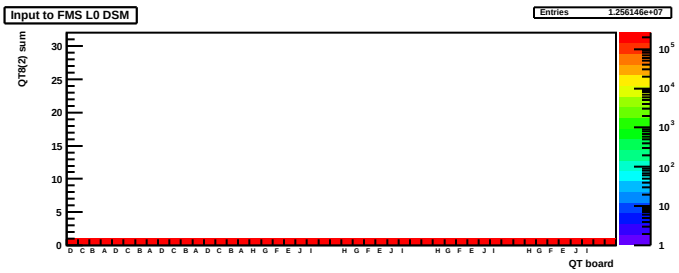

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

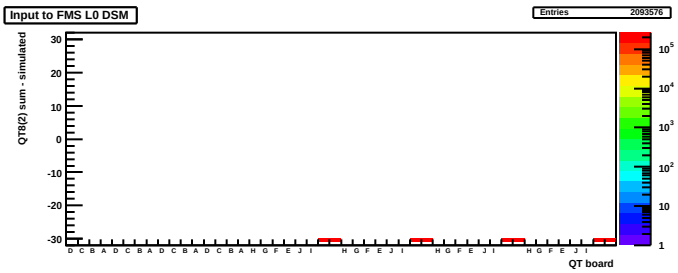

Input to FMS L0 DSM
Entries 1.256146e+07
QT8(0) sum
QT board

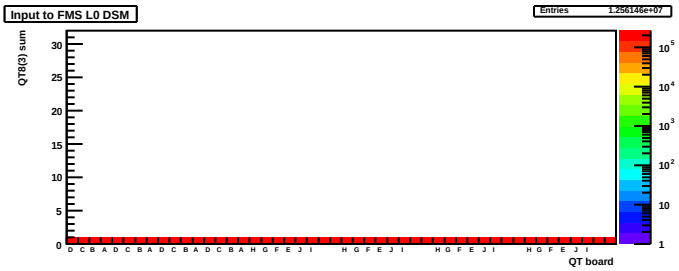

Input to FMS L0 DSM
Entries 2093576
QT8(0) sum - simulated
QT board

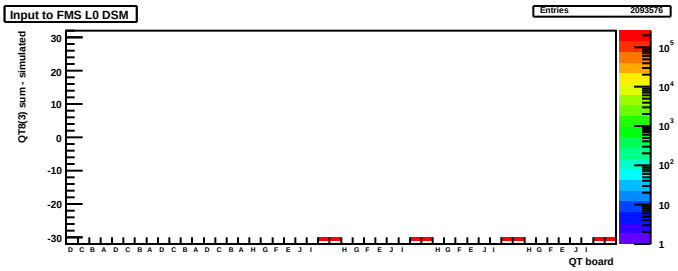

Input to FMS L0 DSM
Entries 1.256146e+07
QT8(1) sum
QT board

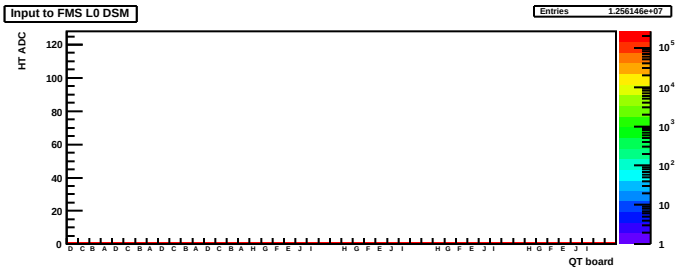

Input to FMS L0 DSM
Entries 2093576
QT8(1) sum - simulated
QT board

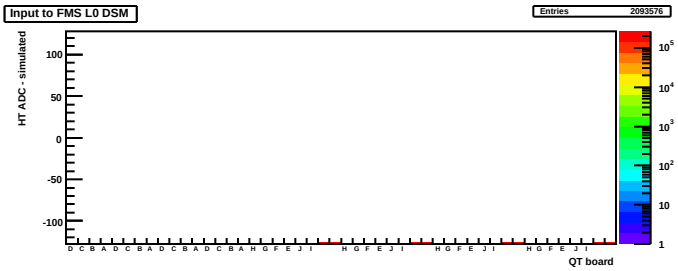

Input to FMS L0 DSM
Entries 1.256146e+07
QT8(2) sum
QT board

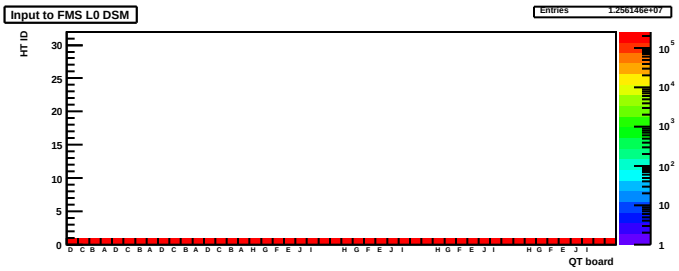

Input to FMS L0 DSM
Entries 2093576
QT8(2) sum - simulated
QT board

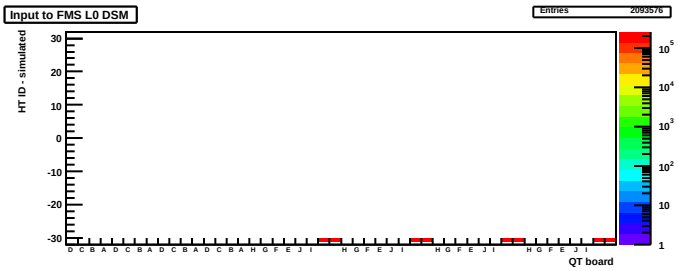

Input to FMS L0 DSM
Entries 1.256146e+07
QT8(3) sum
QT board

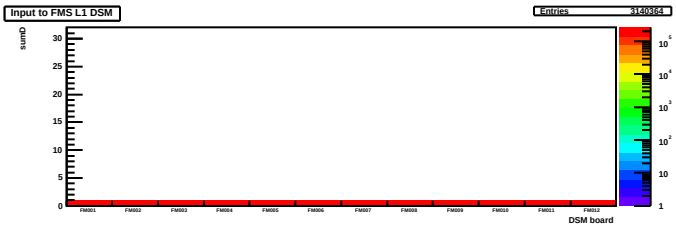

Input to FMS L0 DSM
Entries 2093576
QT8(3) sum - simulated
QT board

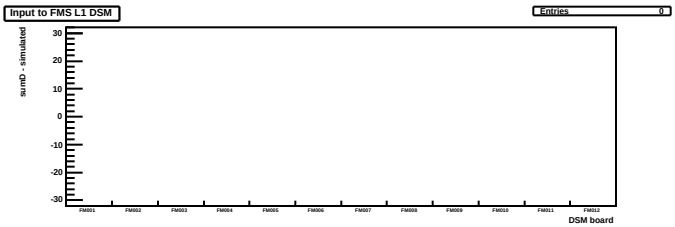

Input to FMS L0 DSM
Entries 1.256146e+07
HT ADC
QT board

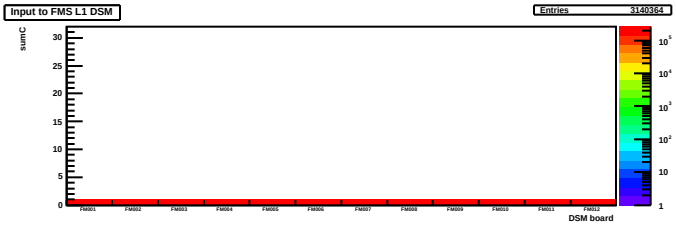

Input to FMS L0 DSM
Entries 2093576
HT ADC - simulated
QT board

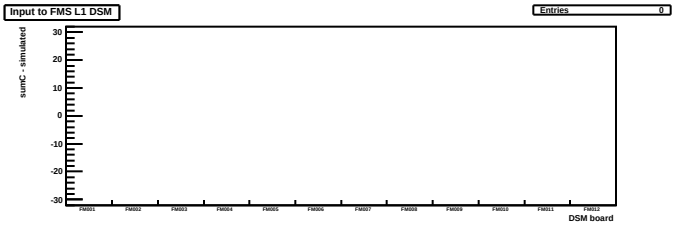

Input to FMS L0 DSM
Entries 1.256146e+07
HT ID
QT board

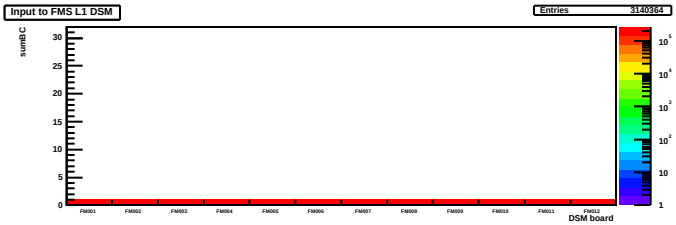

Input to FMS L0 DSM
Entries 2093576
HT ID - simulated
QT board

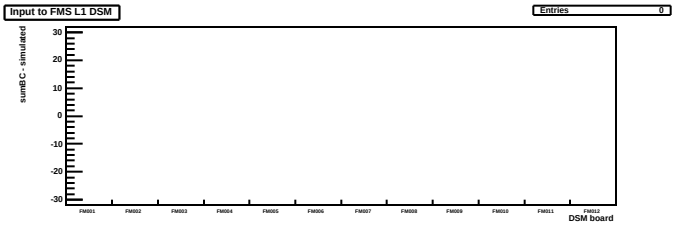

Input to FMS L1 DSM
Entries 3140364
sumD
DSM board

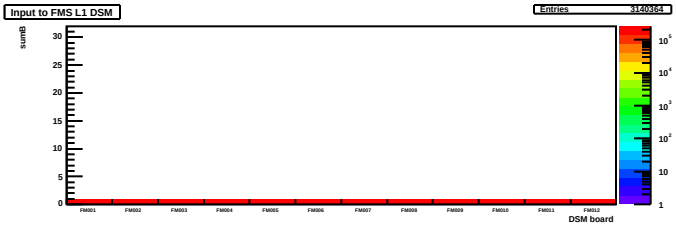

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

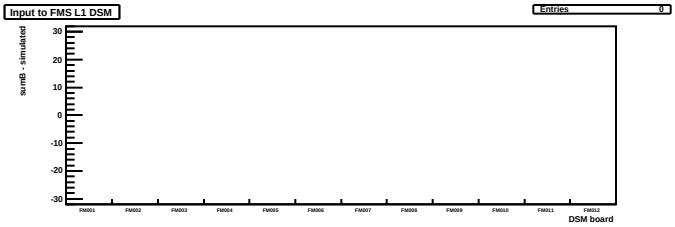

Input to FMS L1 DSM
Entries 3140364
sumC
DSM board

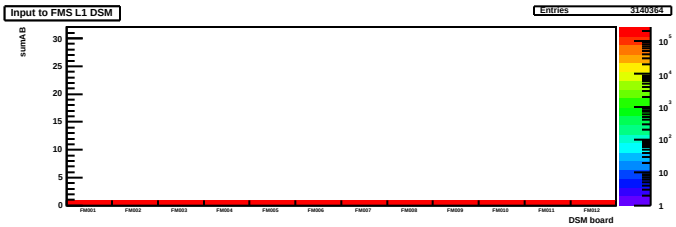

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

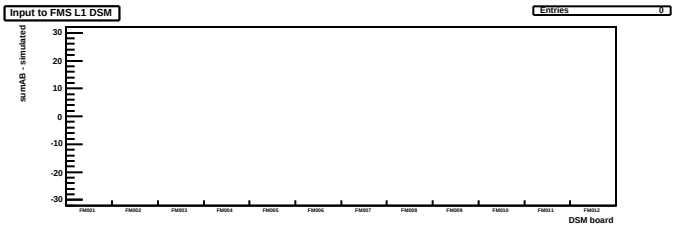

Input to FMS L1 DSM
Entries 3140364
sumBC
DSM board

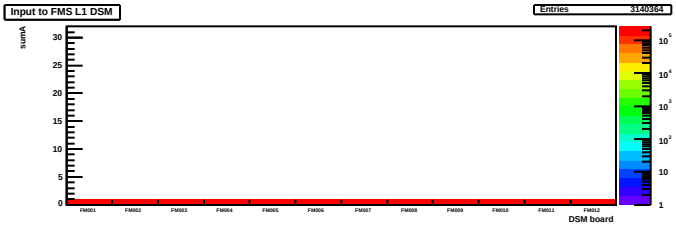

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

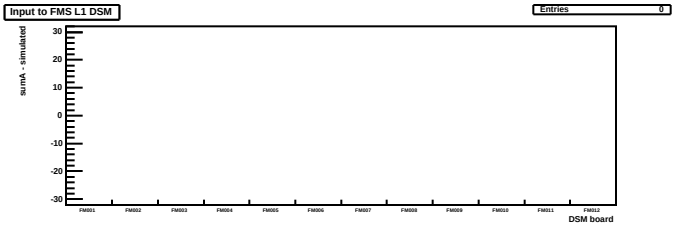

Input to FMS L1 DSM
Entries 3140364
sumB
DSM board

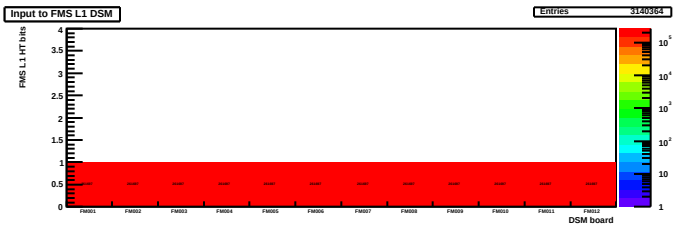

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

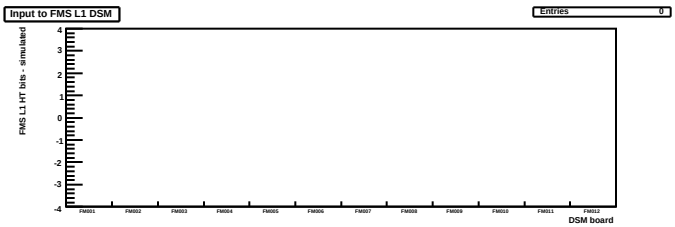

Input to FMS L1 DSM
Entries 3140364
sumAB
DSM board

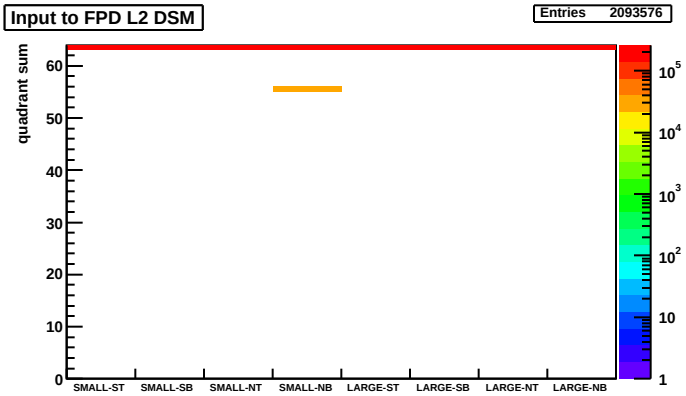

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

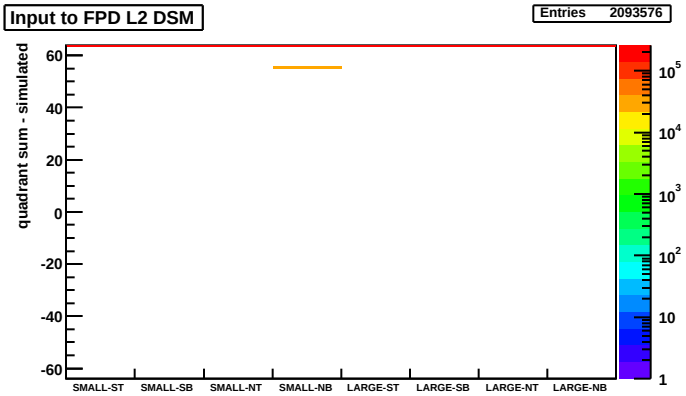

Input to FMS L1 DSM
Entries 3140364
sumA
DSM board

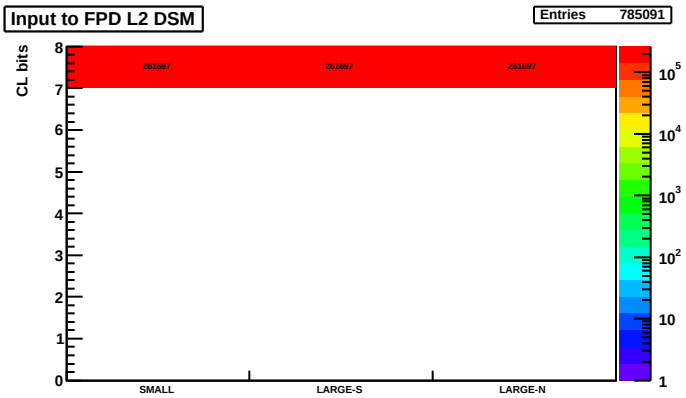

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

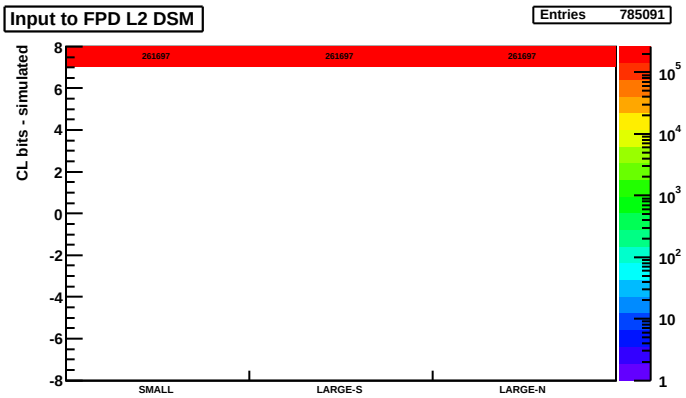

Input to FMS L1 DSM
Entries 3140364
FMS L1 HT bits
DSM board

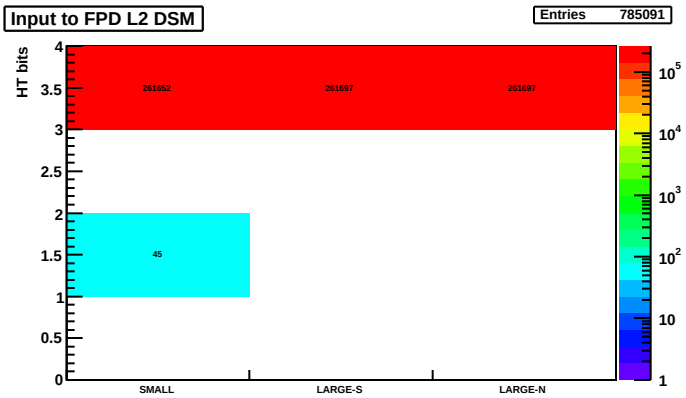

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

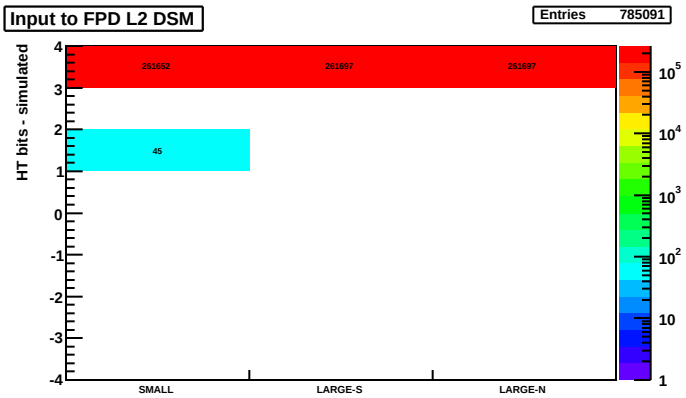

Input to FPD L2 DSM
Entries 2093576
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

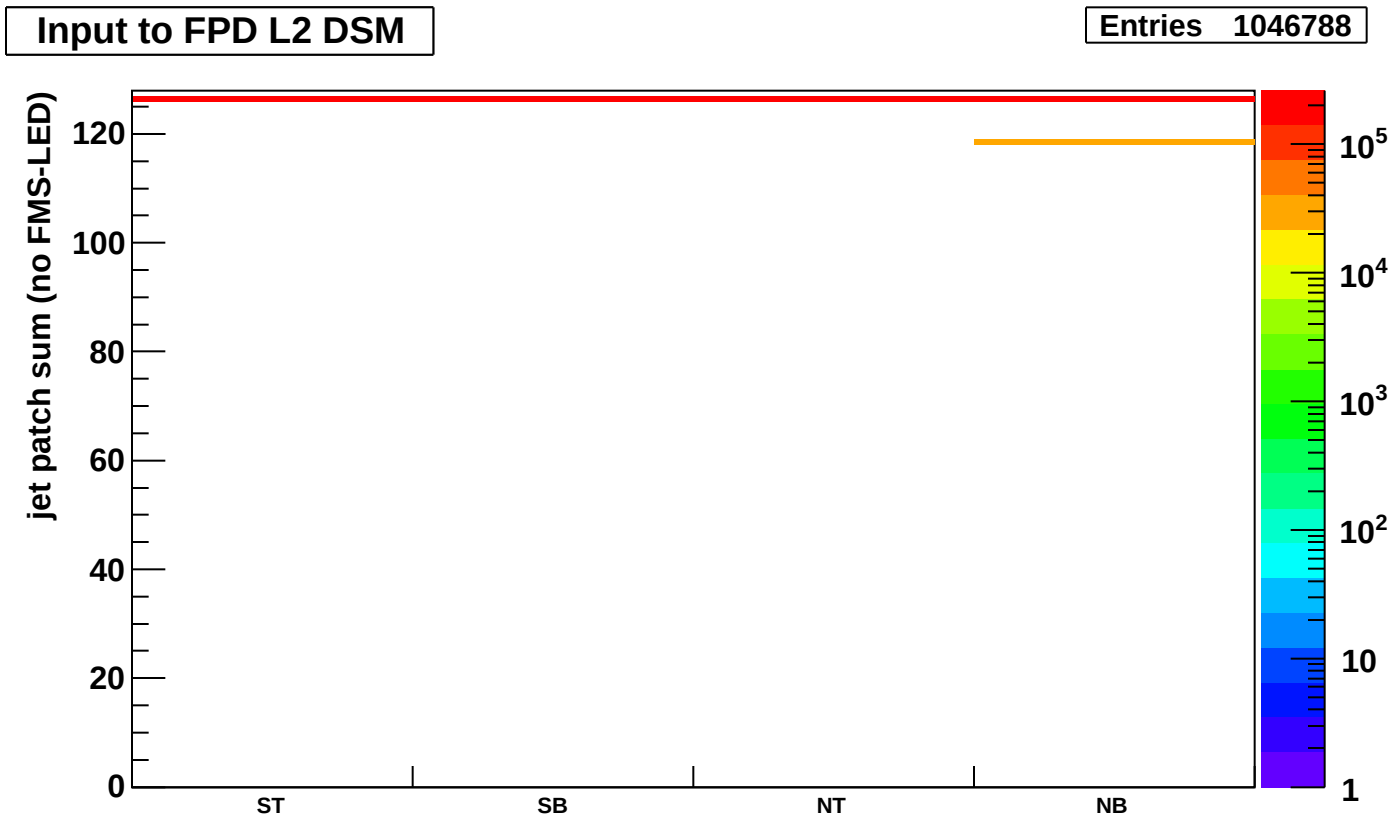

Input to FPD L2 DSM
Entries 2093576
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

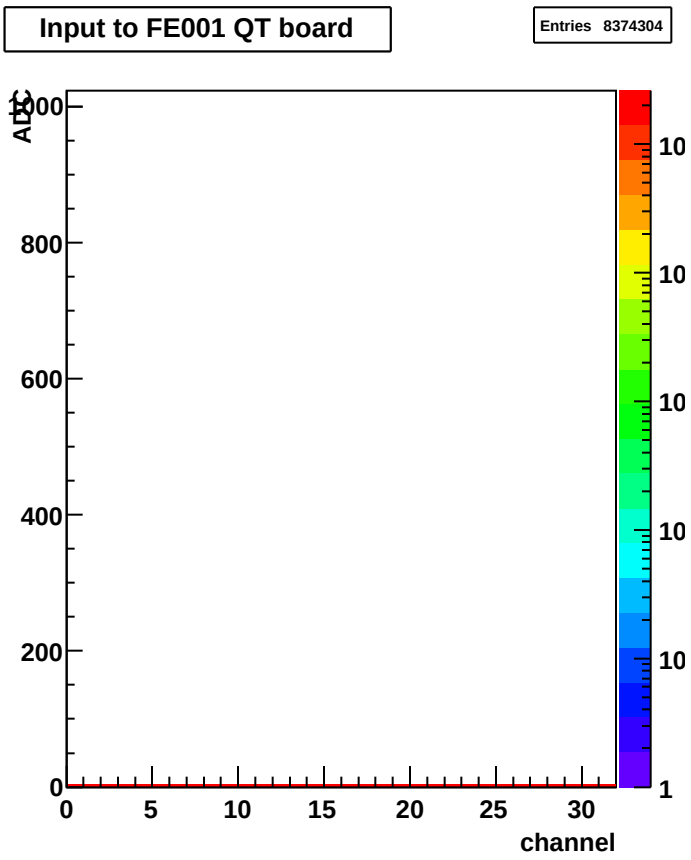

Input to FPD L2 DSM
Entries 785091
CL bits
261697
261697
261697
SMALL
LARGE-S
LARGE-N

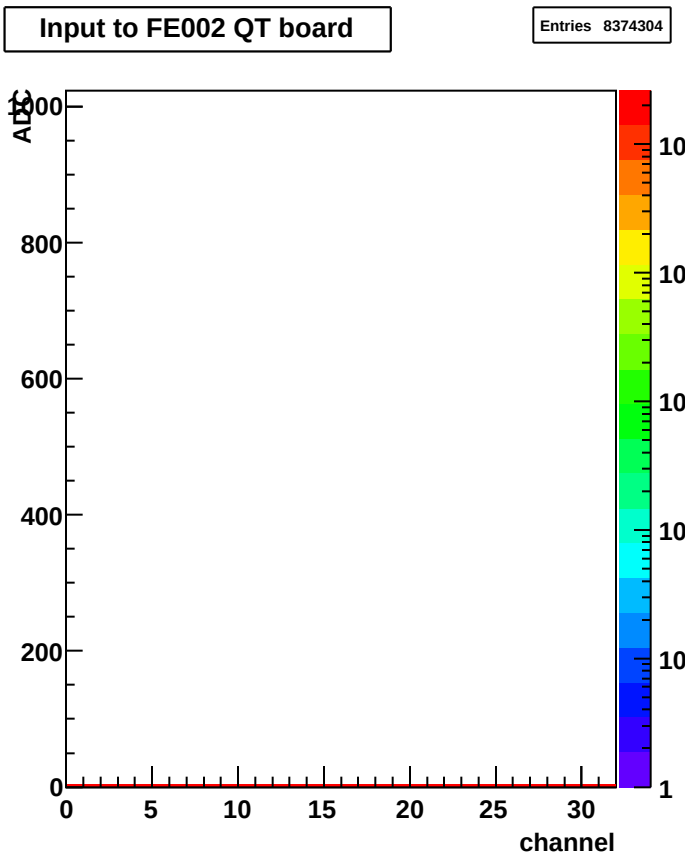

Input to FPD L2 DSM
Entries 785091
CL bits - simulated
261697
261697
261697
SMALL
LARGE-S
LARGE-N

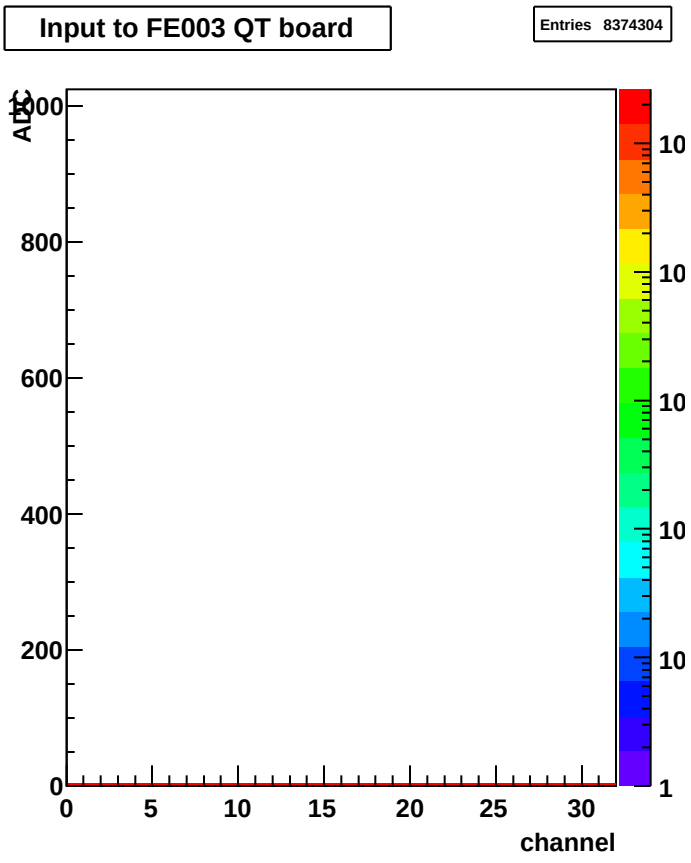

Input to FPD L2 DSM
Entries 785091
HT bits
261652
261697
261697
45
SMALL
LARGE-S
LARGE-N

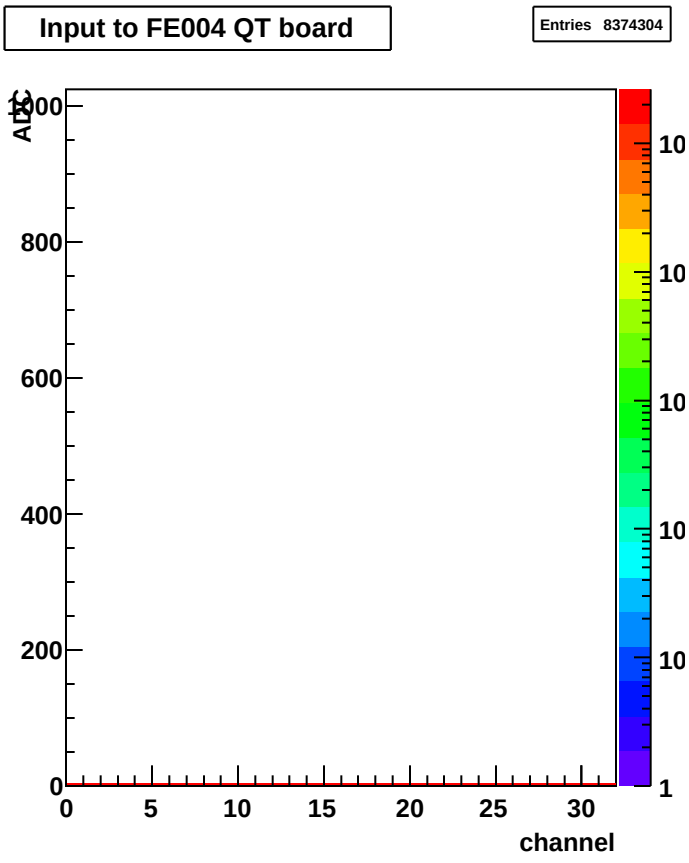

Input to FPD L2 DSM
Entries 785091
HT bits - simulated
261652
261697
261697
45
SMALL
LARGE-S
LARGE-N


Input to FPD L2 DSM
Entries 1046788
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

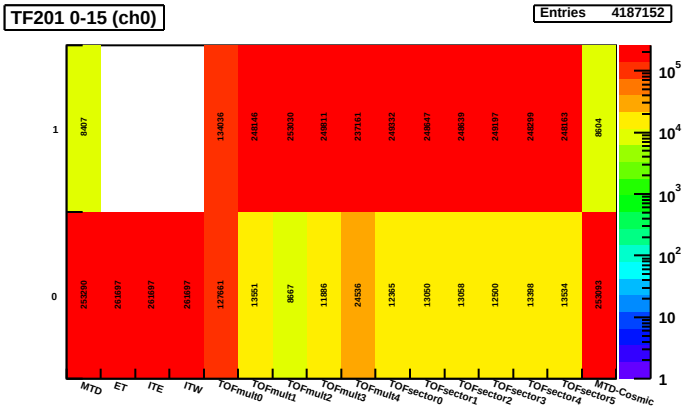

Input to FE001 QT board
Entries 8374304
ADC
channel


Input to FE002 QT board
Entries 8374304
ADC
channel

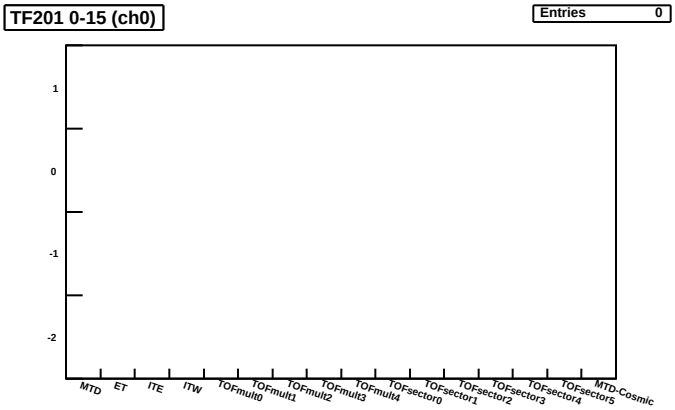

Input to FE003 QT board
Entries 8374304
ADC
channel


Input to FE004 QT board
Entries 8374304
ADC
channel

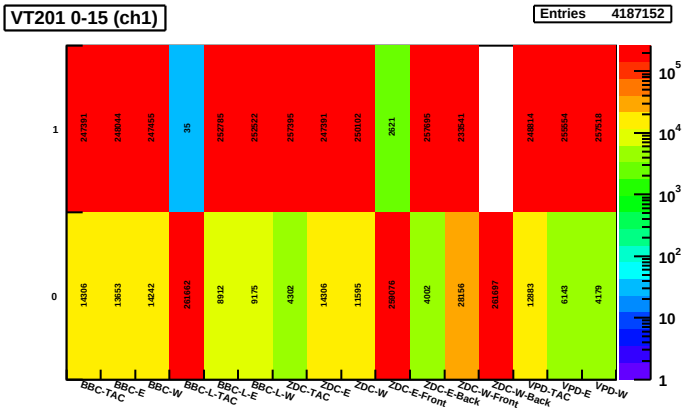
TF201 0-15 (ch0)



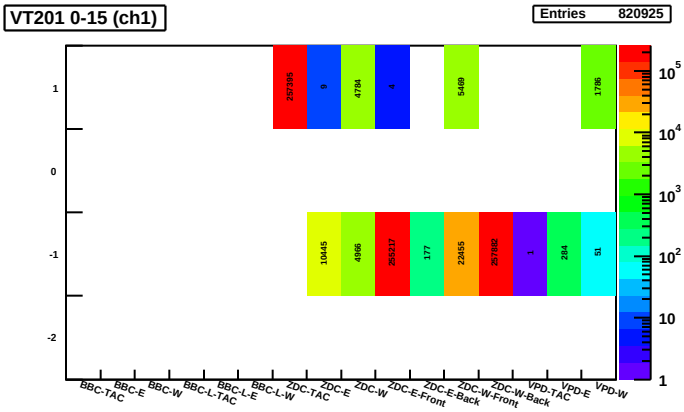
TF201 0-15 (ch0)



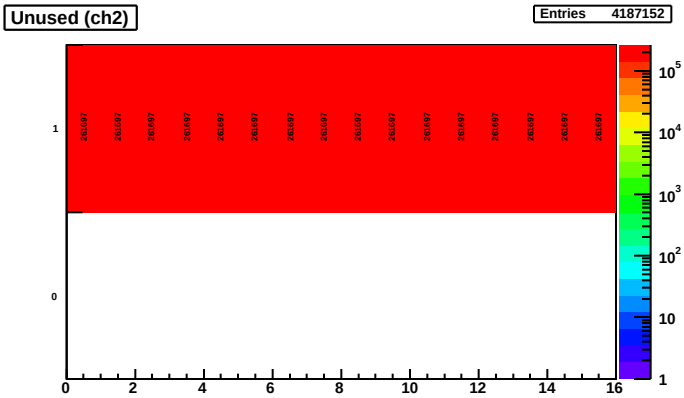
VT201 0-15 (ch1)

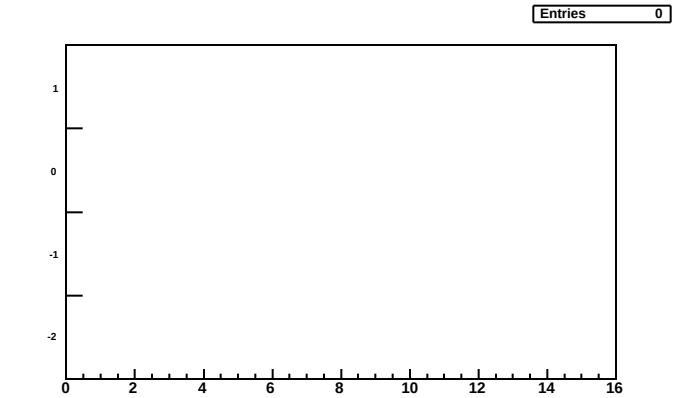


VT201 0-15 (ch1)

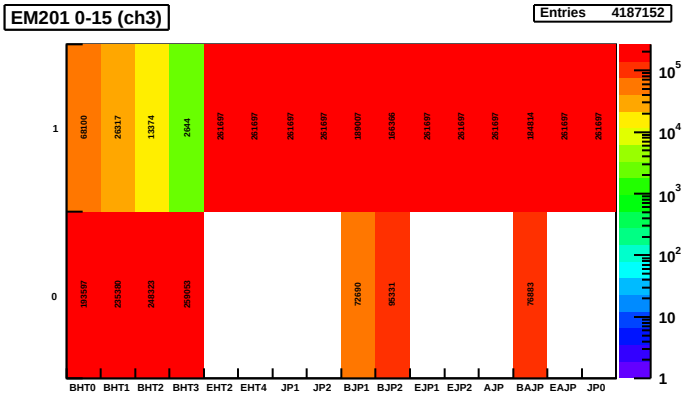


Unused (ch2)

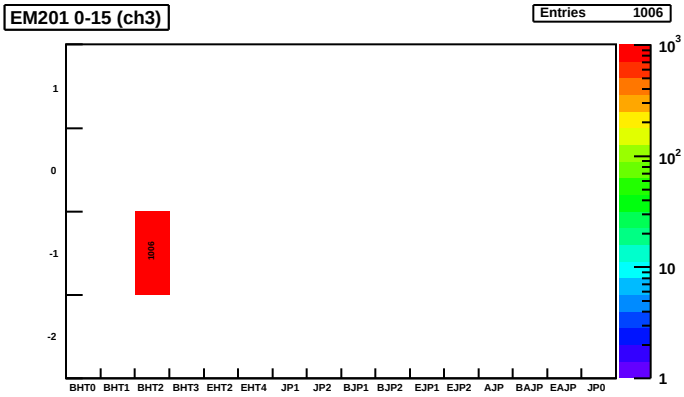




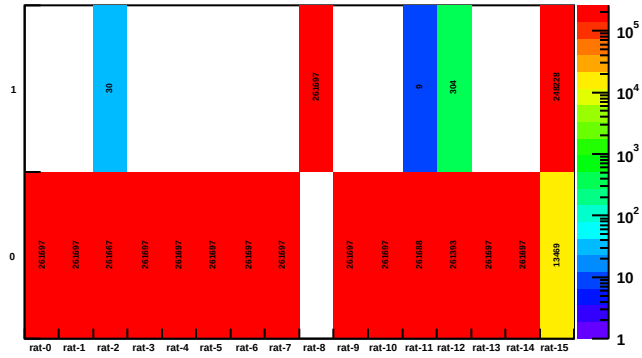
EM201 0-15 (ch3)

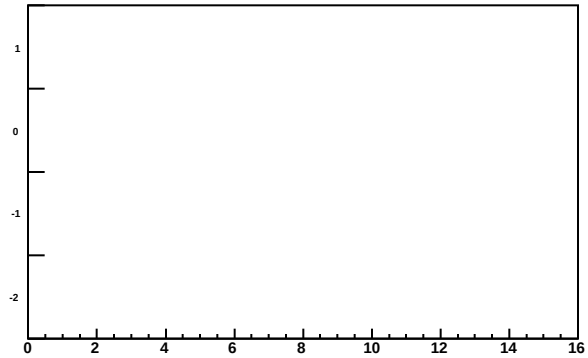


EM201 0-15 (ch3)

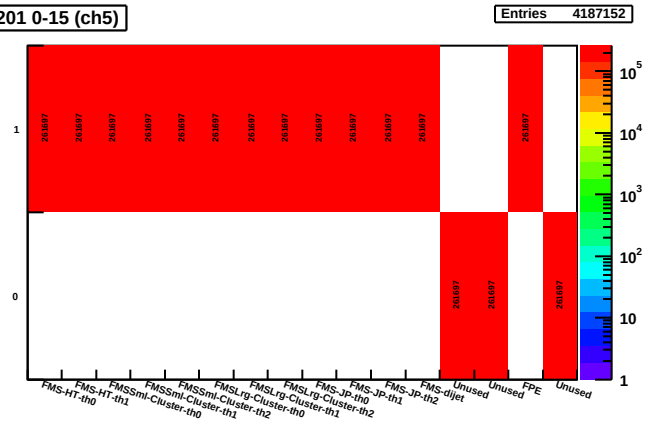


RAT board (ch4)

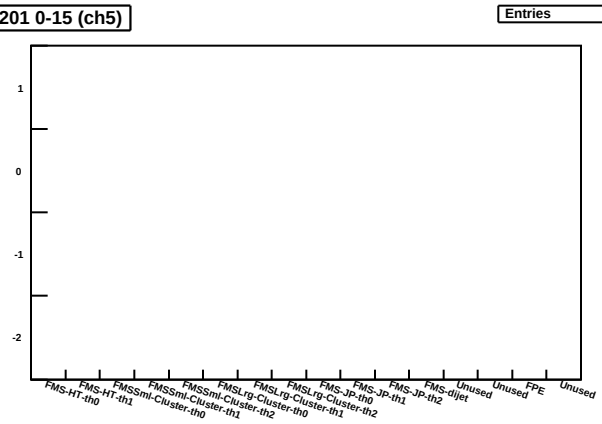




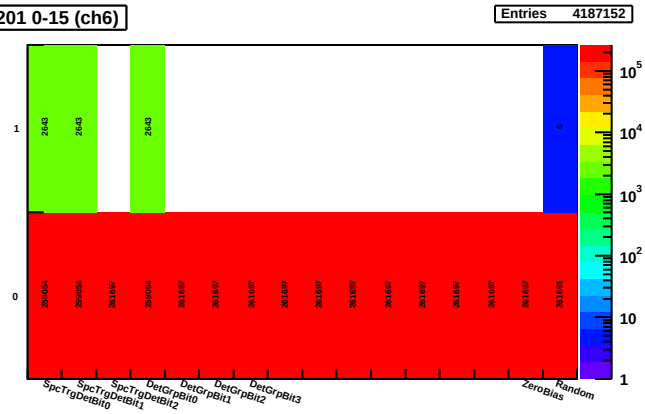
FP201 0-15 (ch5)

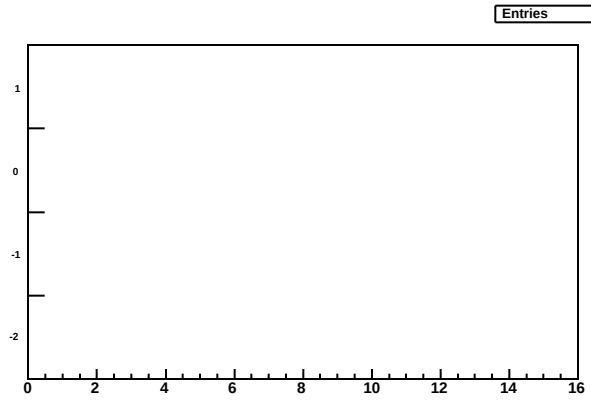
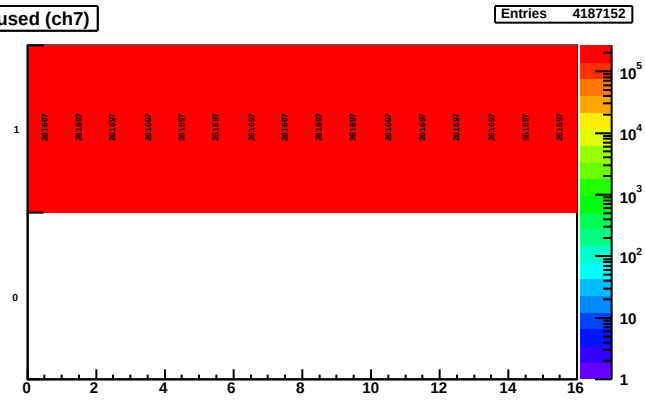
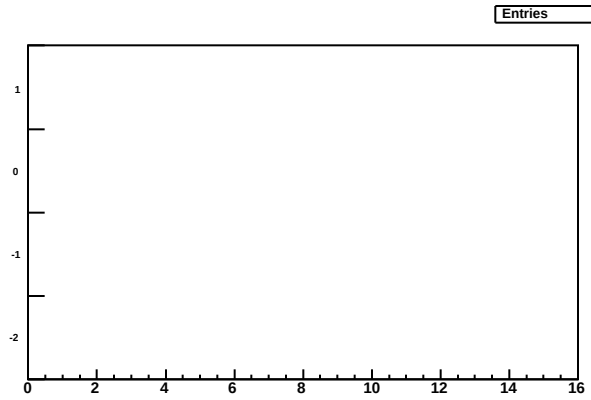


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)