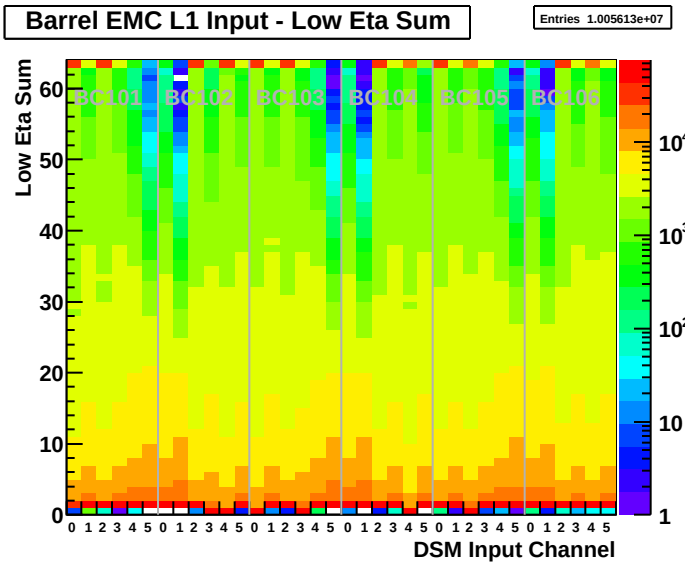
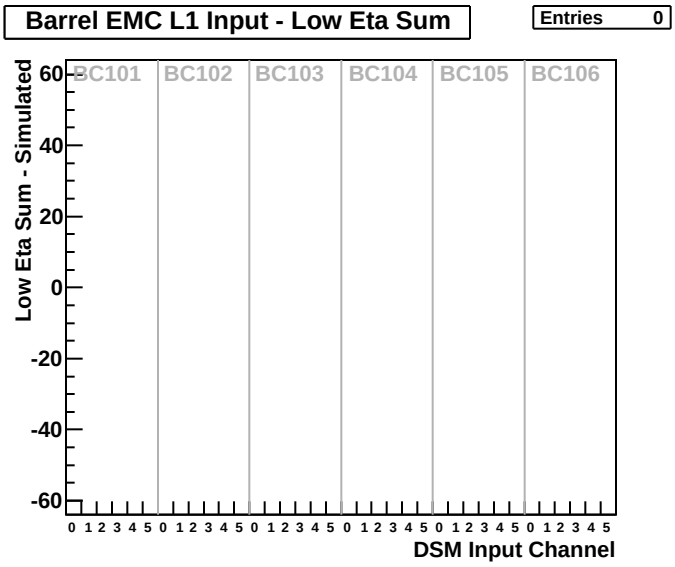
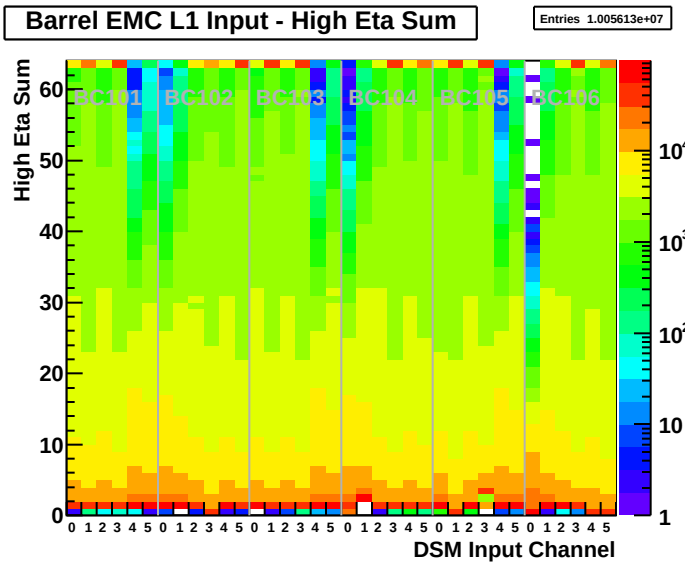
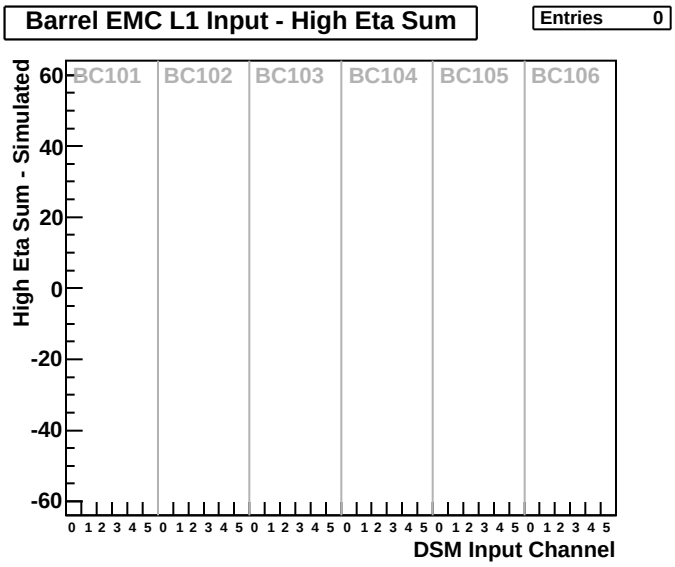
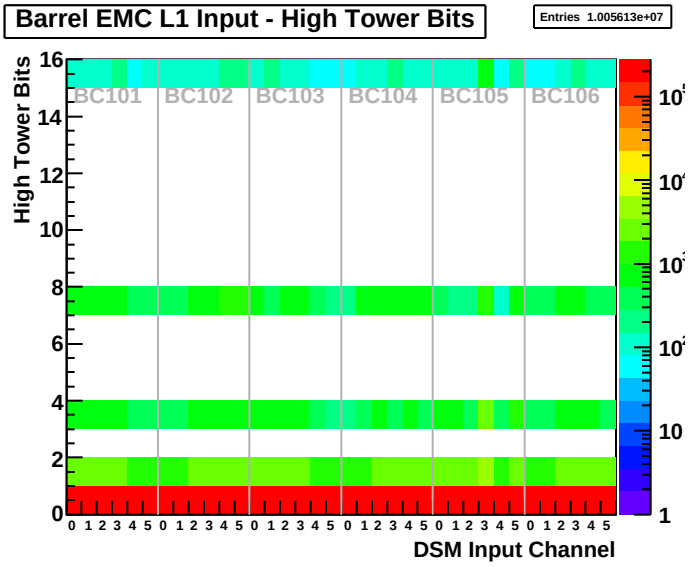
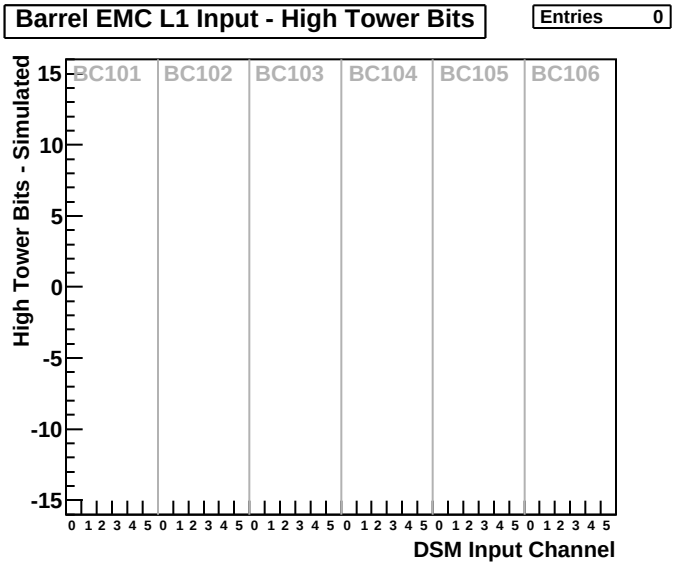

Barrel EMC L1 Input - Low Eta Sum
Entries 1.005613e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

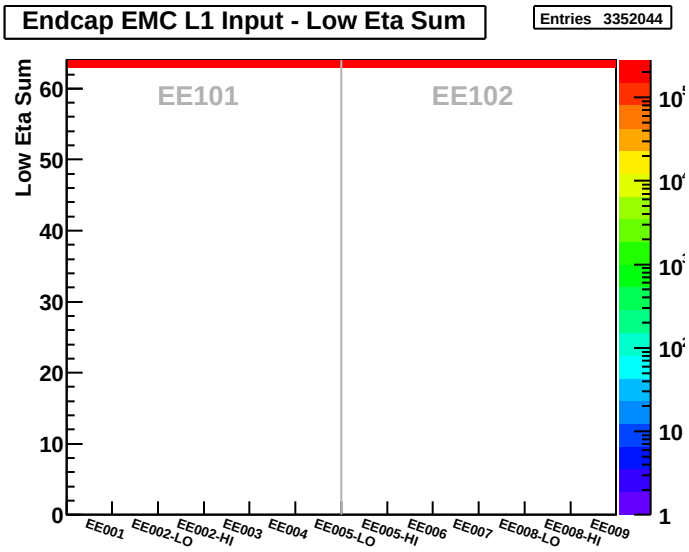

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

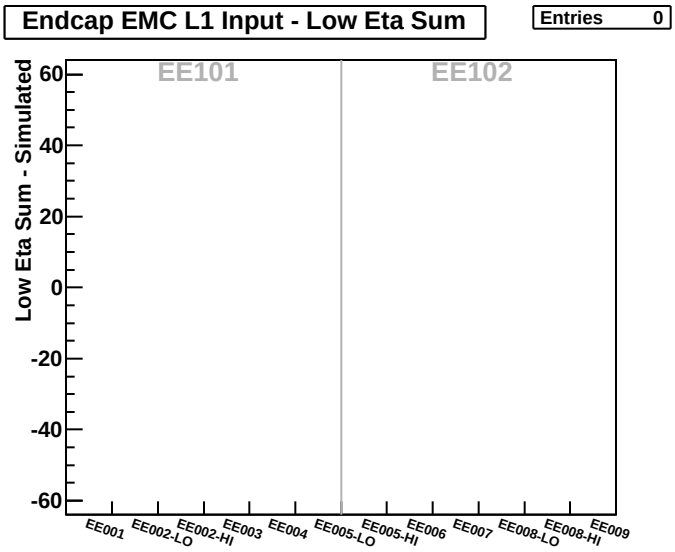

Barrel EMC L1 Input - High Eta Sum
Entries 1.005613e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

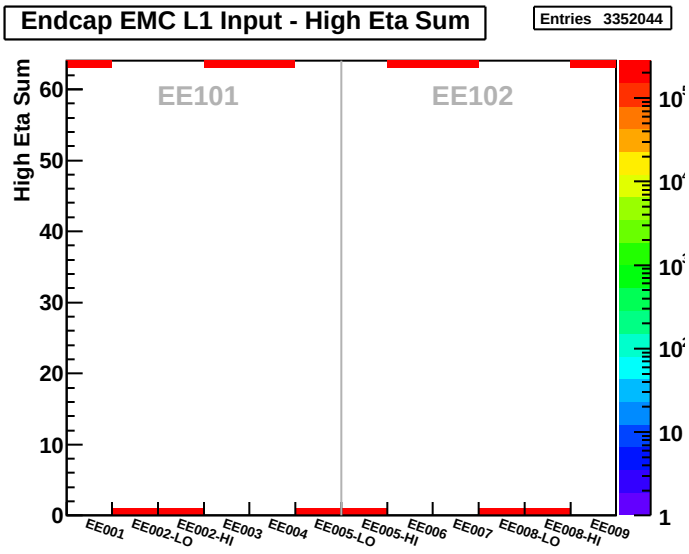

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

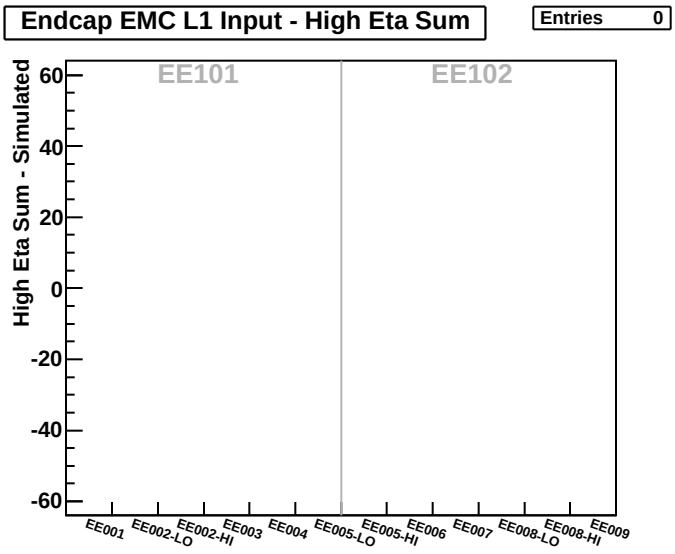

Barrel EMC L1 Input - High Tower Bits
Entries 1.005613e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

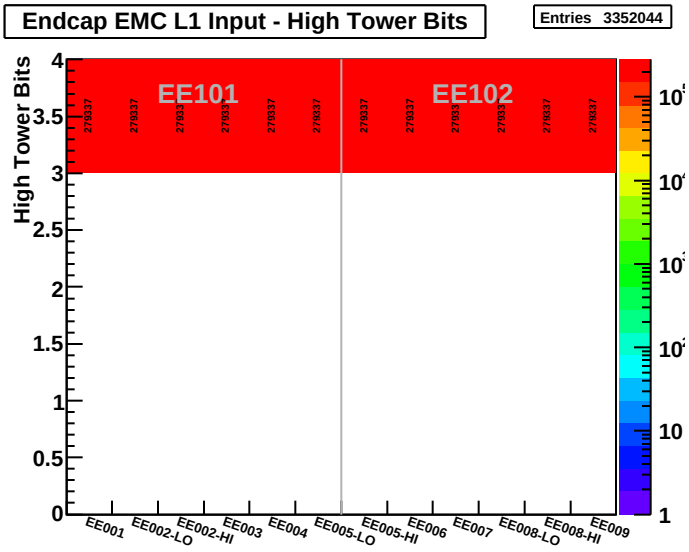

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

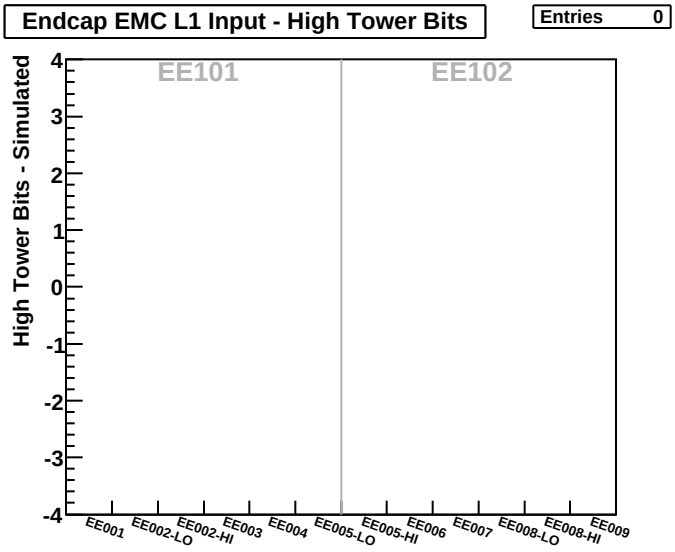

Endcap EMC L1 Input - Low Eta Sum
Entries 3352044
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

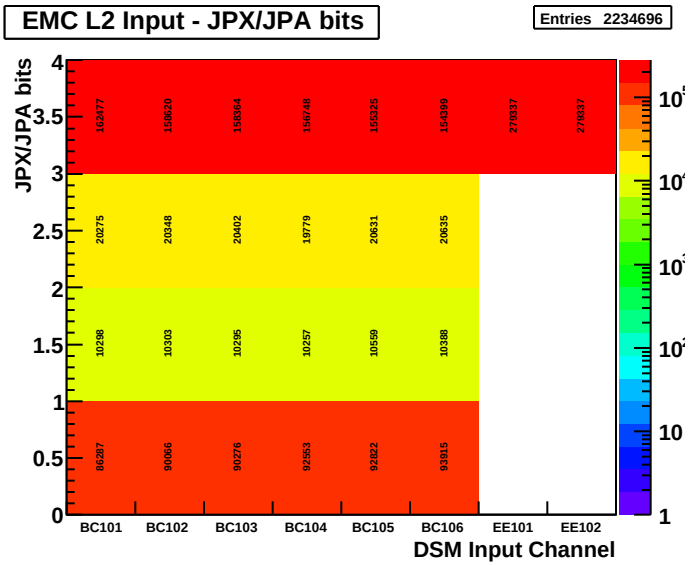

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

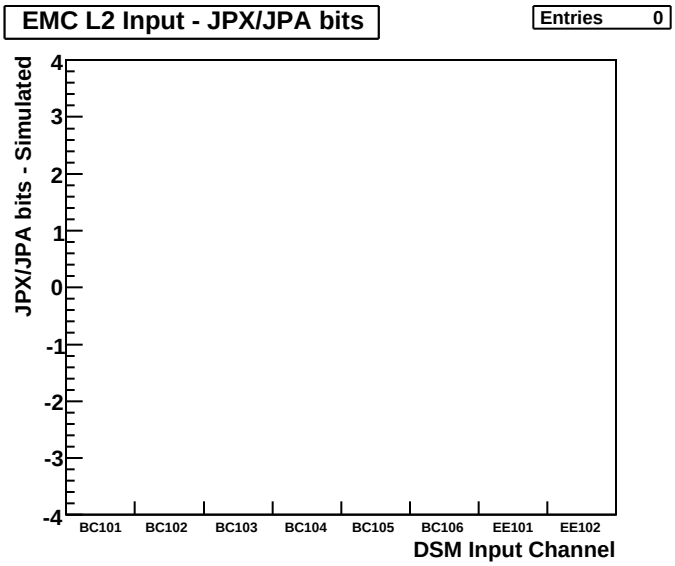

Endcap EMC L1 Input - High Eta Sum
Entries 3352044
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

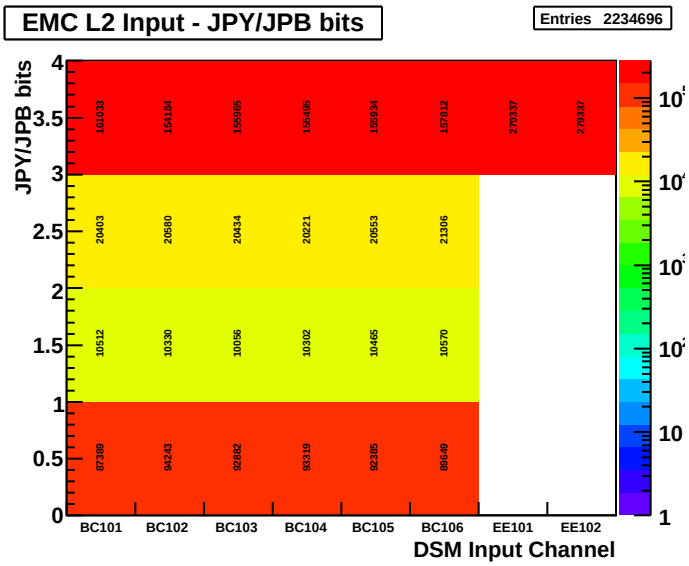

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

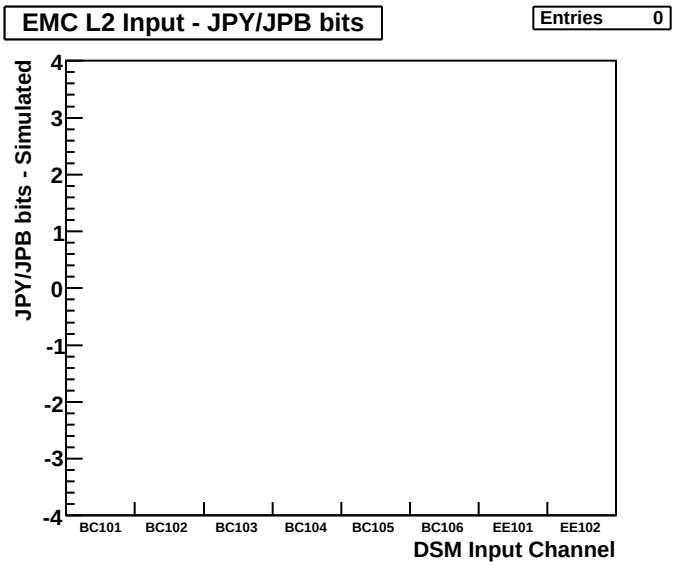

Endcap EMC L1 Input - High Tower Bits
Entries 3352044
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

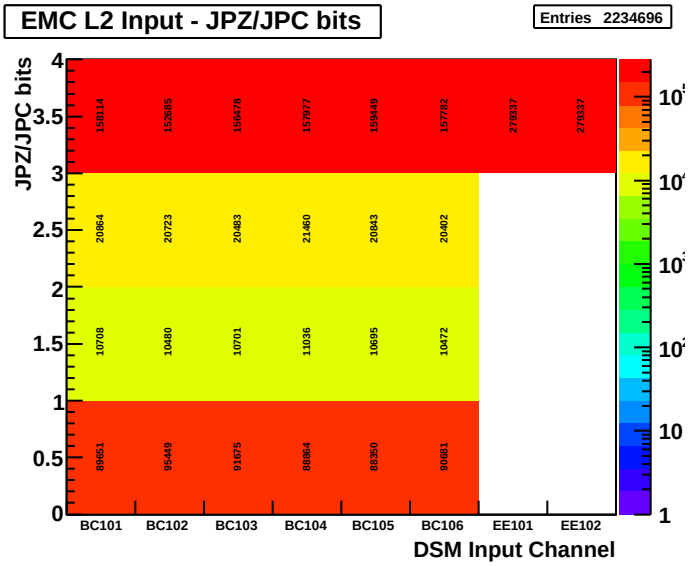

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

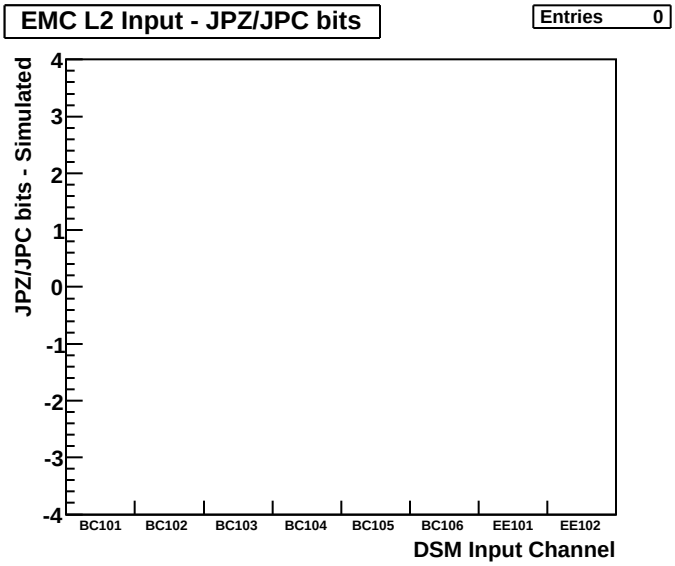

EMC L2 Input - JPX/JPA bits
Entries 2234696
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
152477 158620 158364 156748 155325 154399 279337 279337
20275 20348 20402 19779 20631 20635
10298 10303 10295 10257 10559 10388
86287 90066 90276 92553 92822 93915

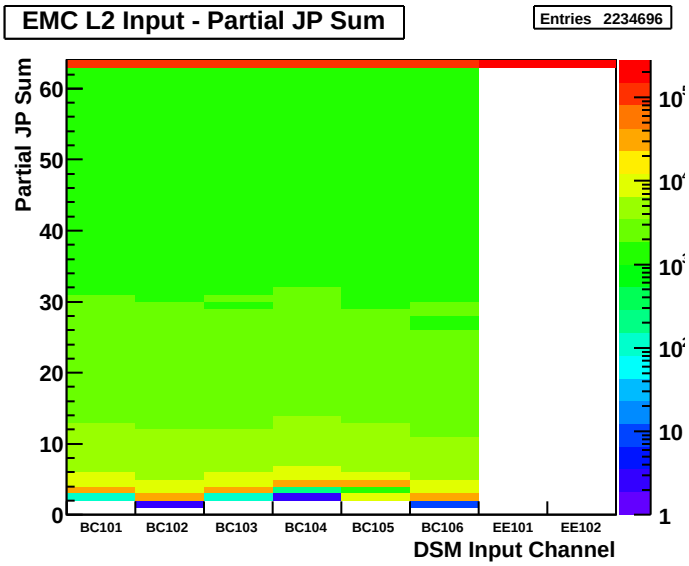

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

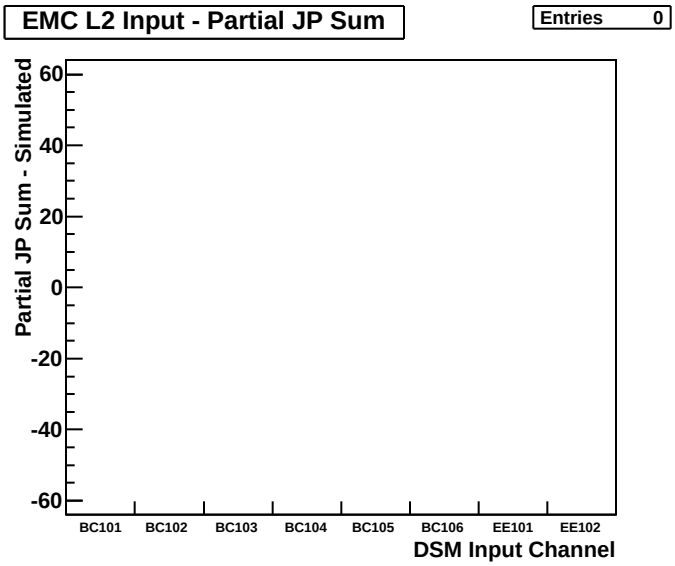

EMC L2 Input - JPY/JPB bits
Entries 2234696
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
161033 154184 155965 155405 155934 157812 279337 279337
20403 20580 20434 20221 20553 21306
10512 10330 10056 10302 10465 10570
87389 94243 92882 93319 92385 89649

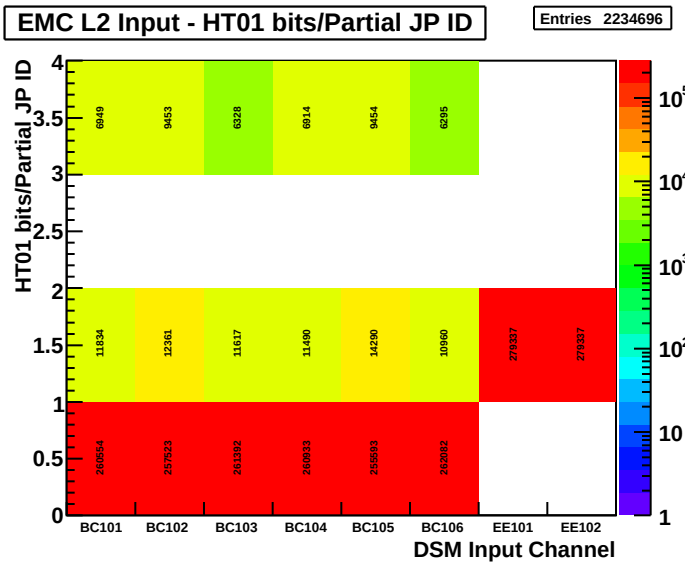

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

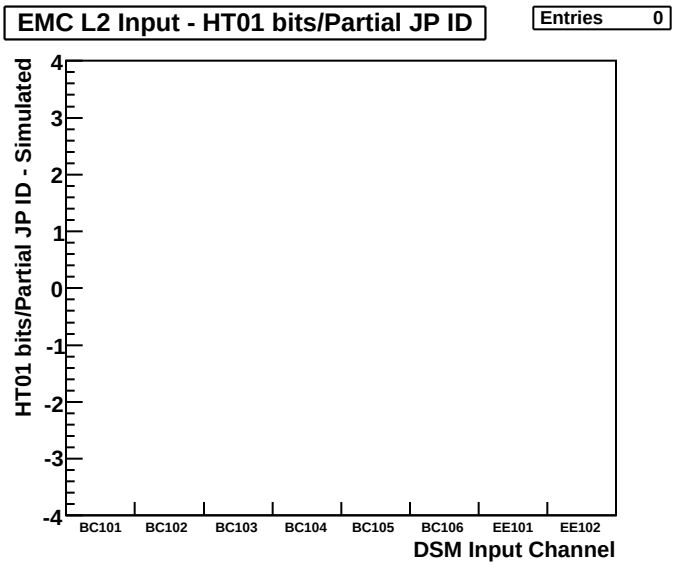

EMC L2 Input - JPZ/JPC bits
Entries 2234696
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
158114 152685 156478 157977 159449 157782 279337 279337
20864 20723 20483 21460 20843 20402
10708 10480 10701 11036 10695 10472
89651 95449 91675 88864 88350 90891

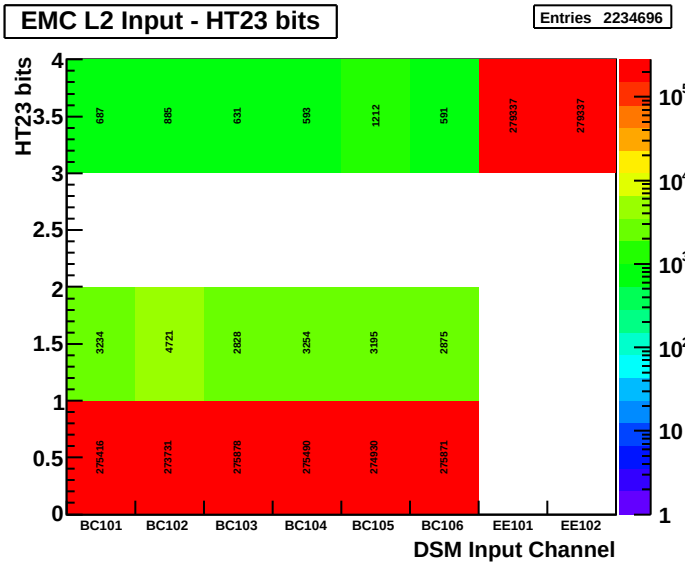

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

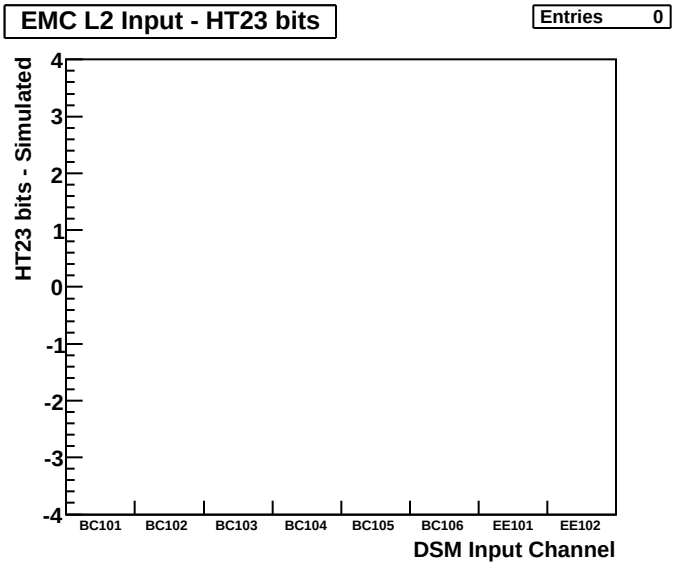

EMC L2 Input - Partial JP Sum
Entries 2234696
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

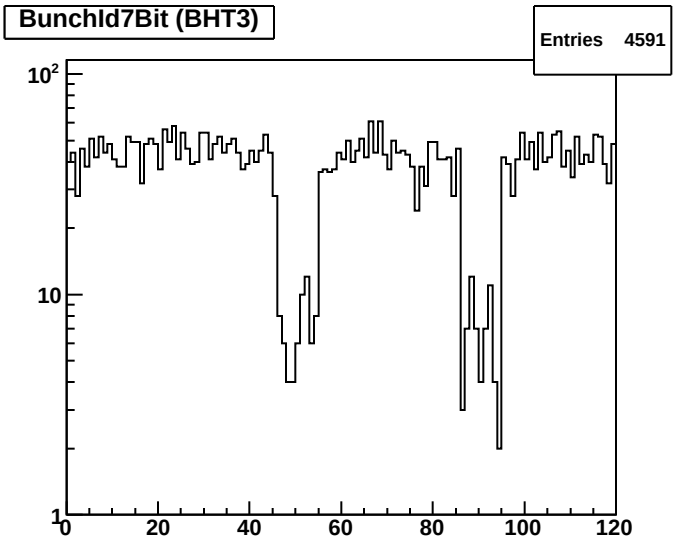

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

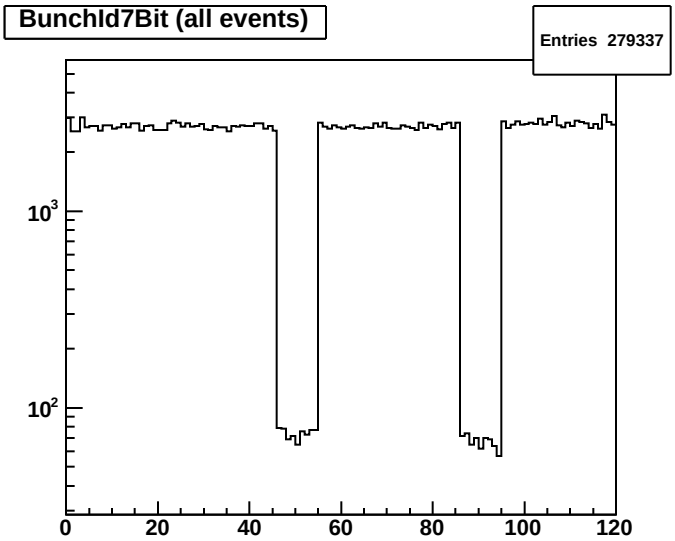

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2234696
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

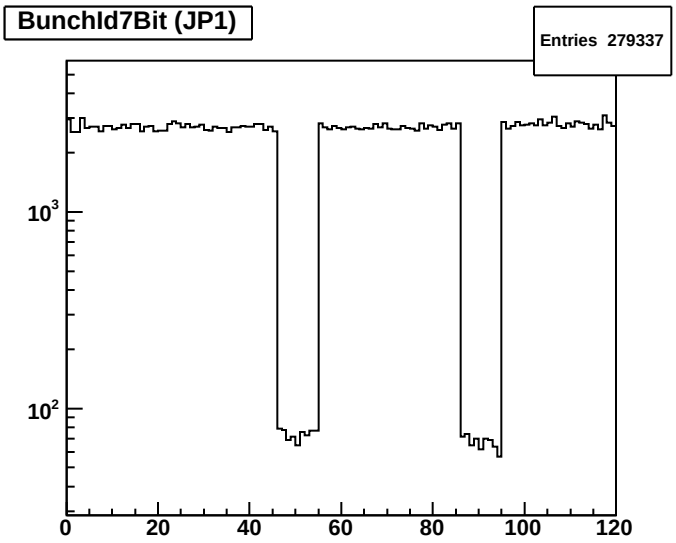

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

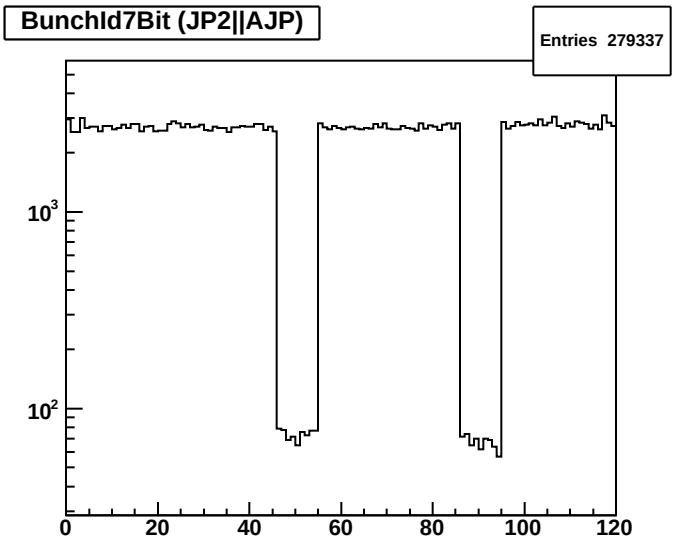

EMC L2 Input - HT23 bits
Entries 2234696
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

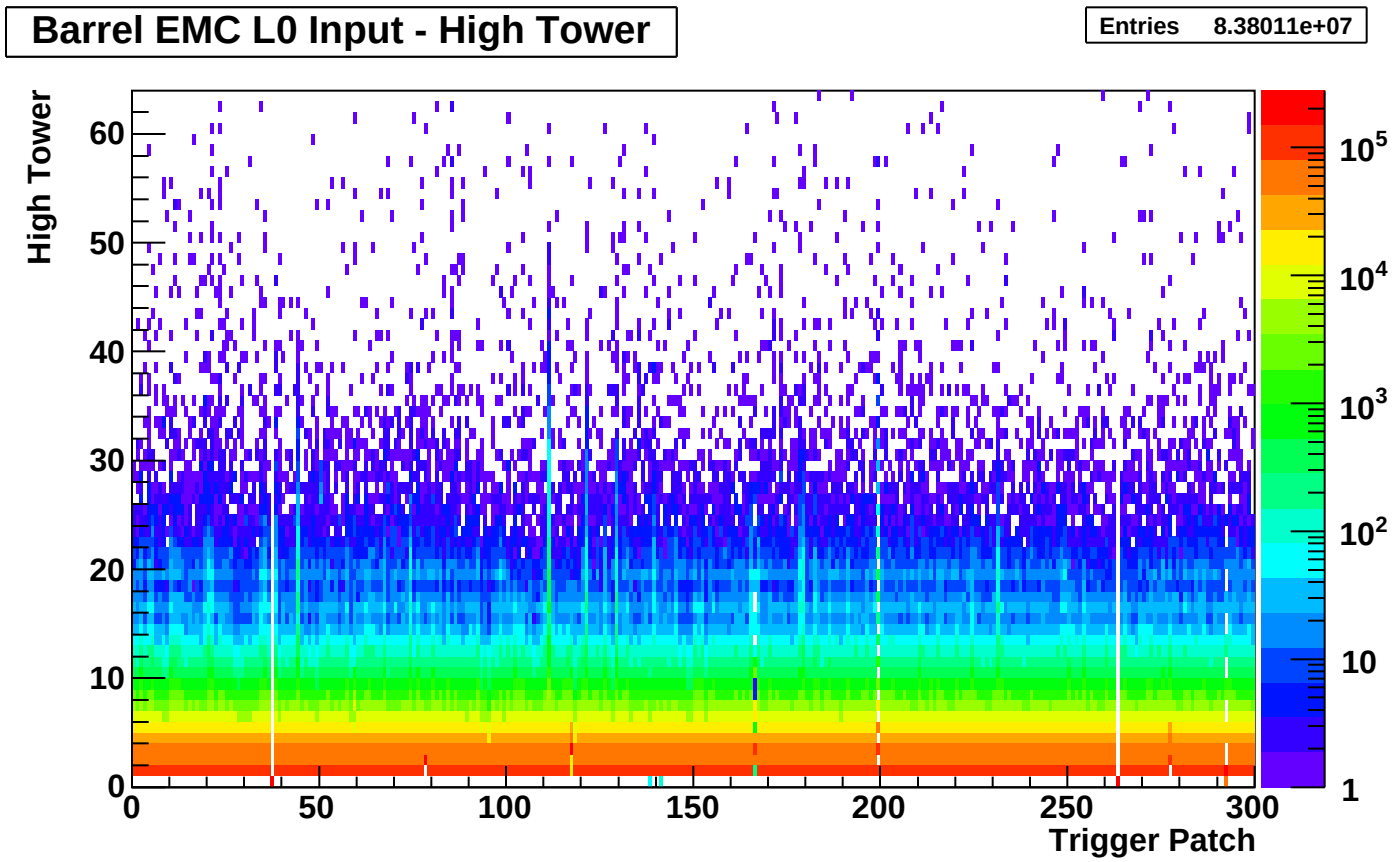

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

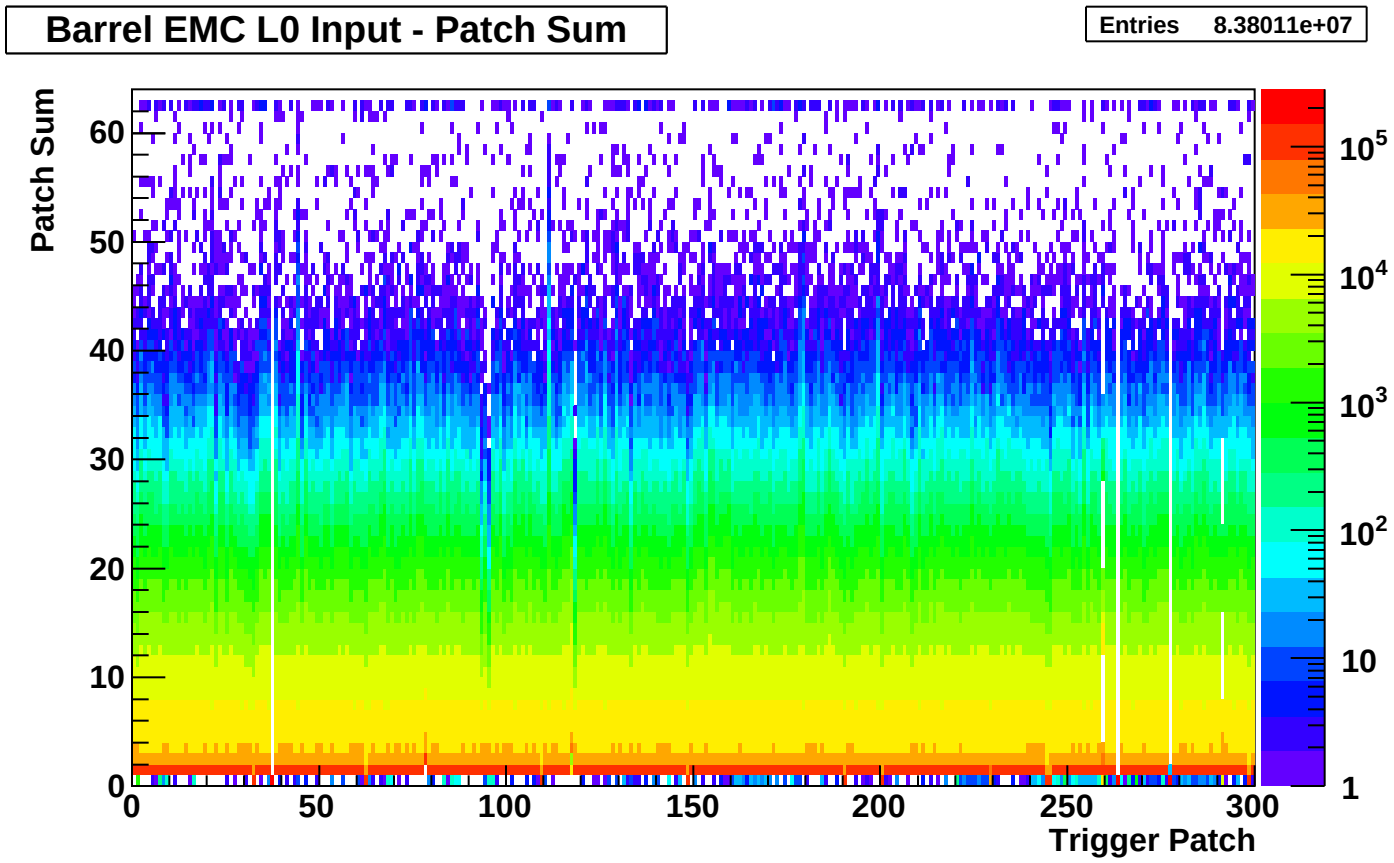

BunchId7Bit (BHT3)
Entries 4591
10^2
10
1
0
20
40
60
80
100
120

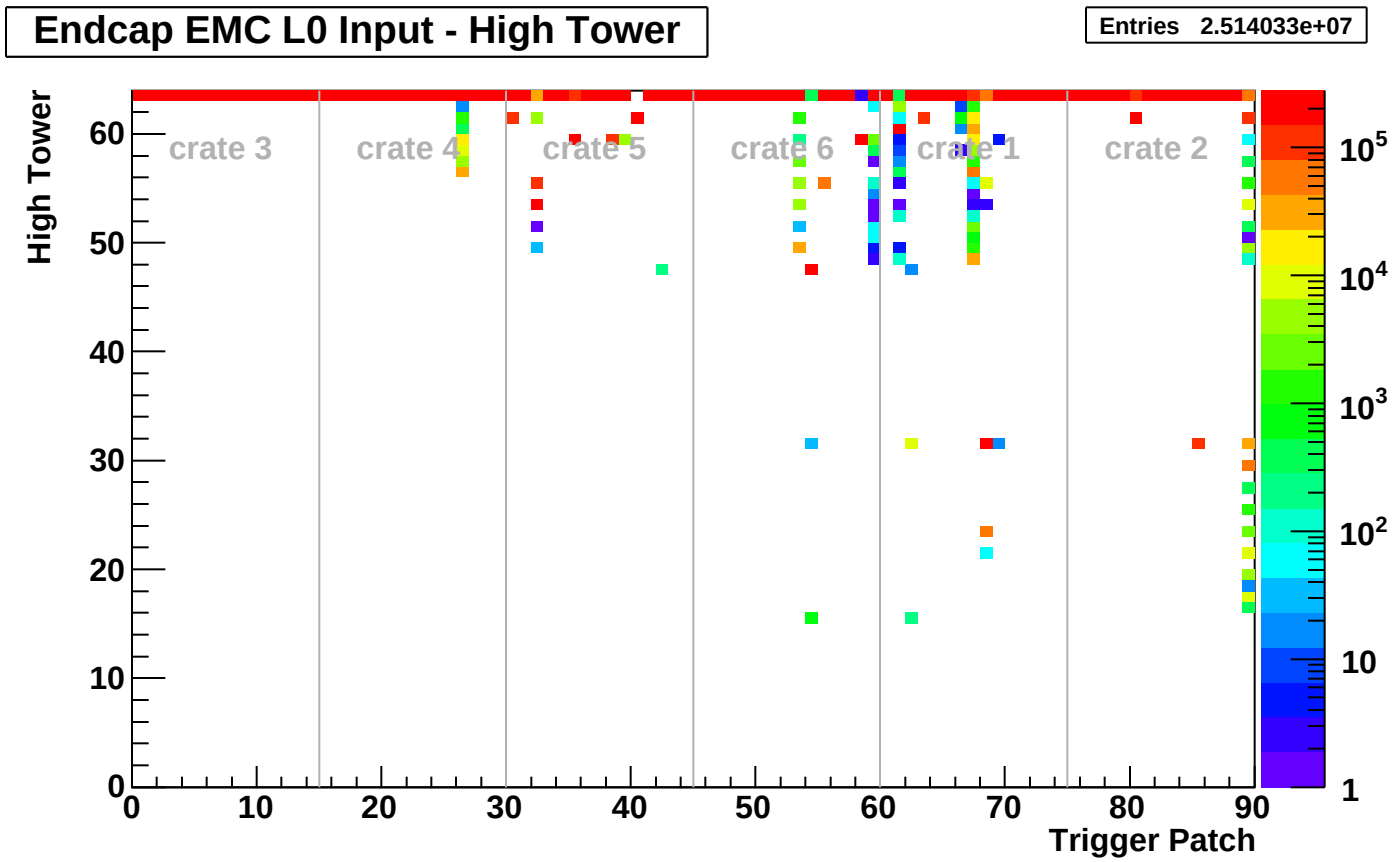

BunchId7Bit (all events)
Entries 279337
10^3
10^2
0
20
40
60
80
100
120

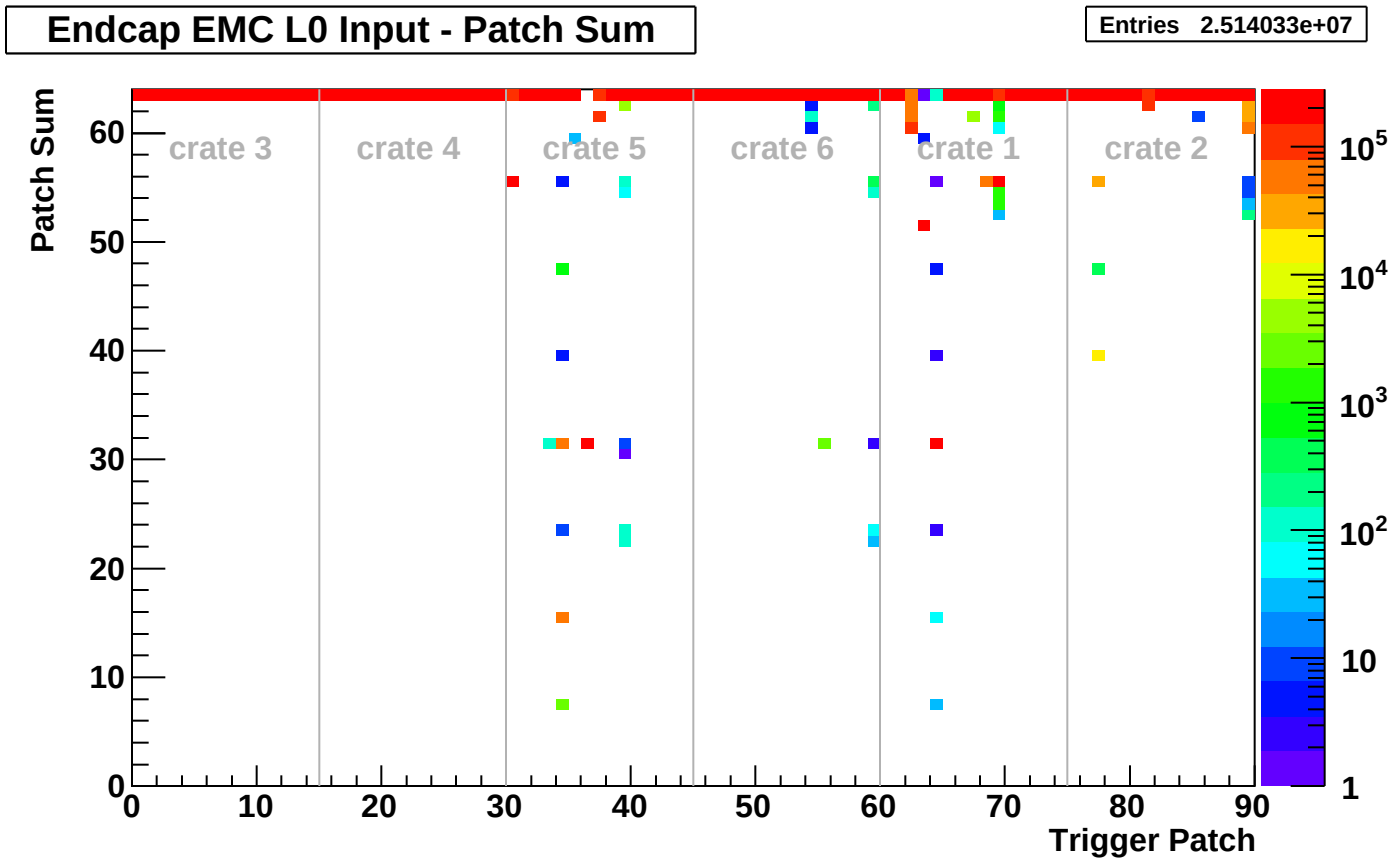

BunchId7Bit (JP1)
Entries 279337
10^3
10^2
0
20
40
60
80
100
120

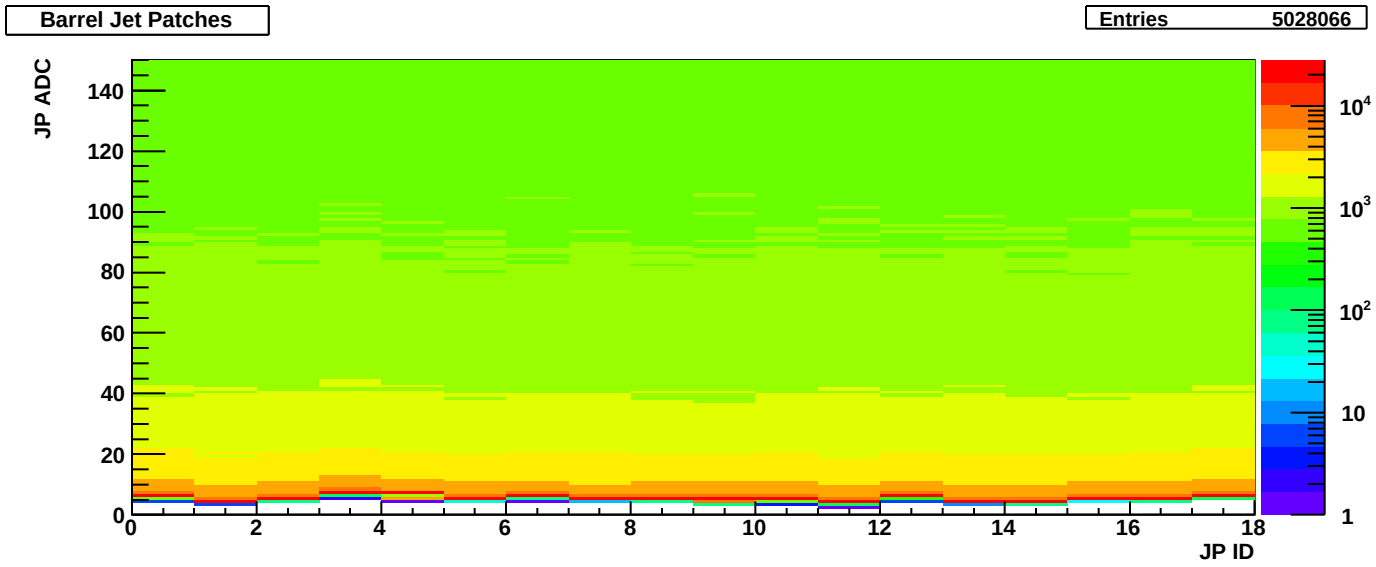

BunchId7Bit (JP2||AJP)
Entries 279337
10^3
10^2
0
20
40
60
80
100
120

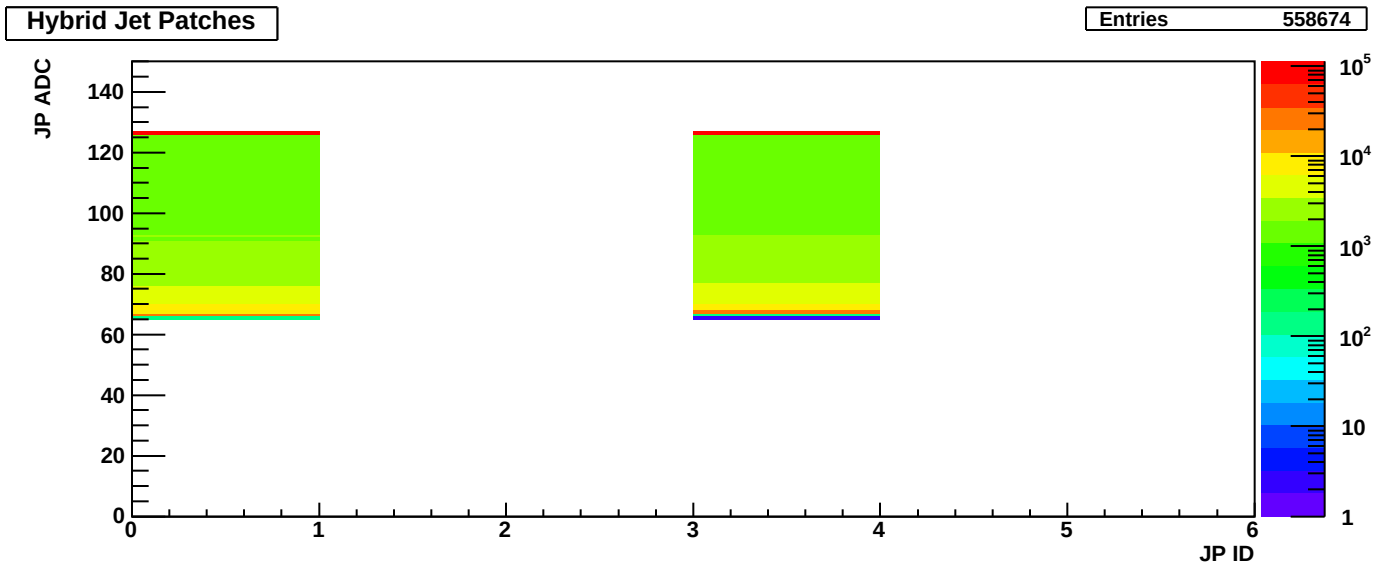

Barrel EMC L0 Input - High Tower
Entries 8.38011e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

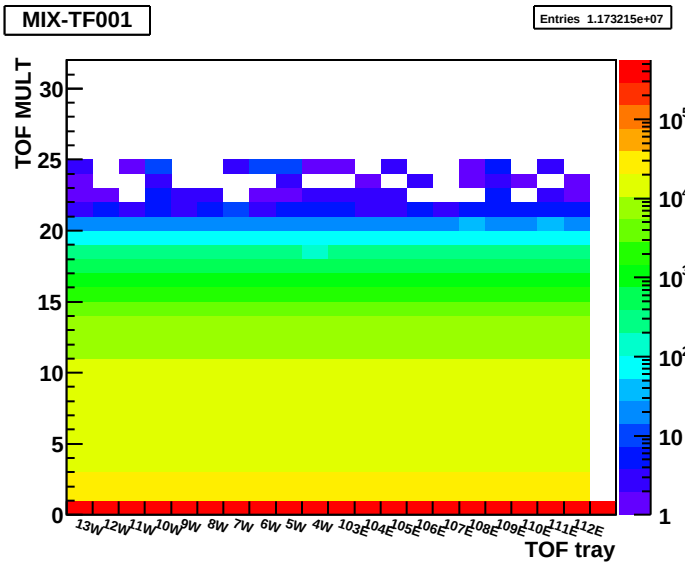

Barrel EMC L0 Input - Patch Sum
Entries 8.38011e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

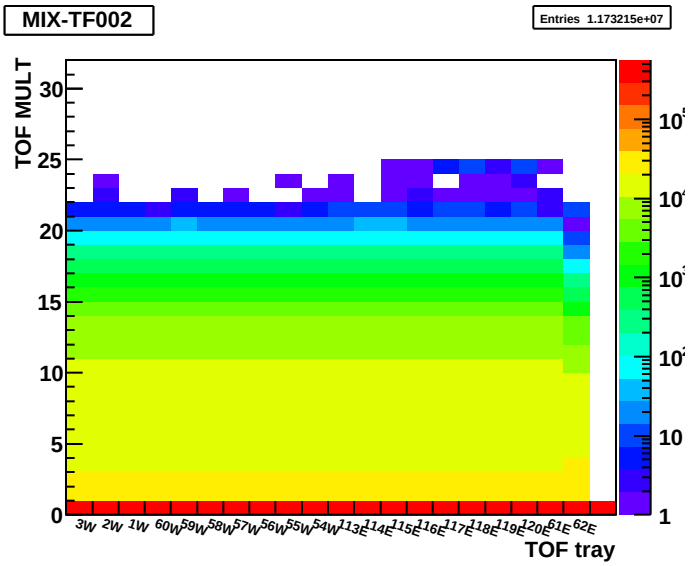

Endcap EMC L0 Input - High Tower
Entries 2.514033e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

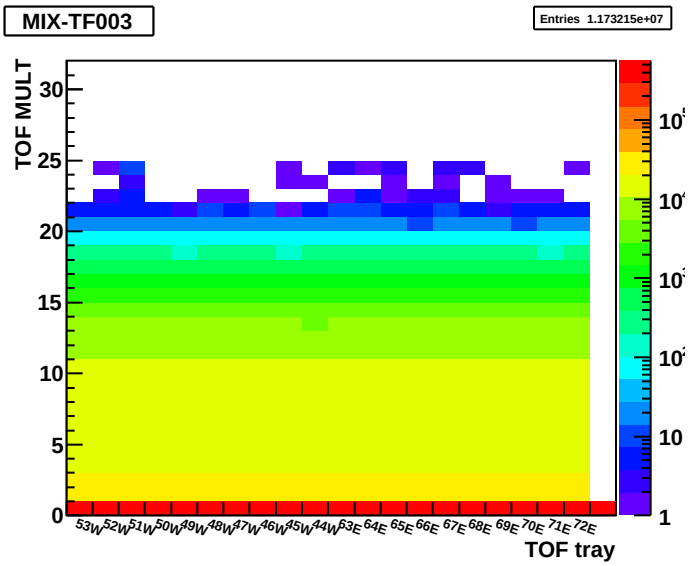

Endcap EMC L0 Input - Patch Sum
Entries 2.514033e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

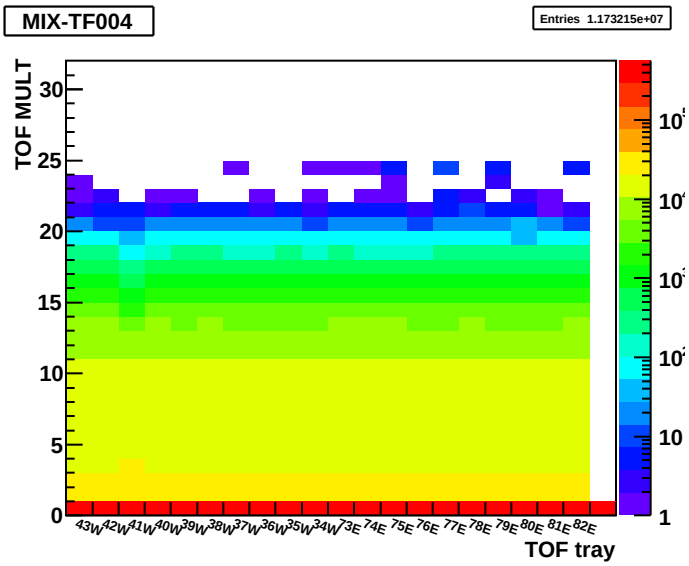

Barrel Jet Patches
Entries 5028066
JP ADC
JP ID

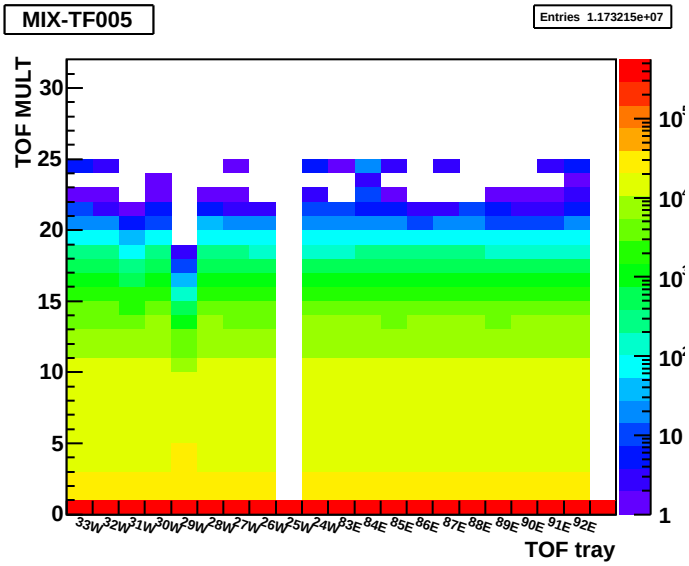

Hybrid Jet Patches
Entries 558674
JP ADC
JP ID

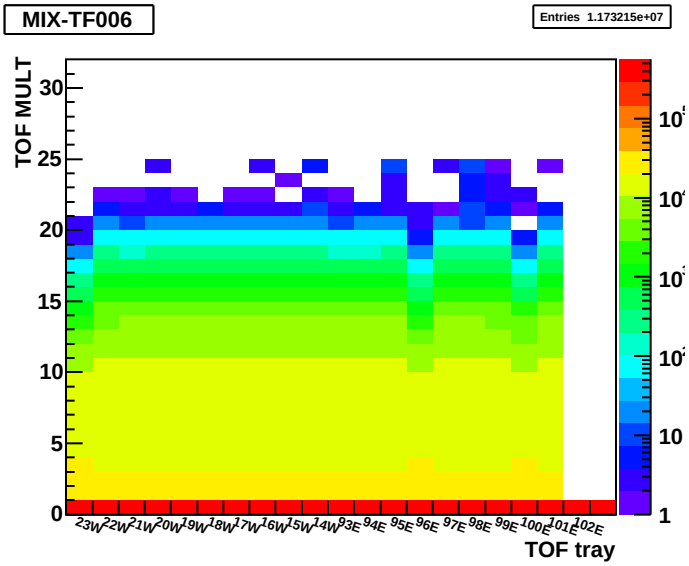

MIX-TF001
Entries 1.173215e+07
TOF MULT
TOF tray

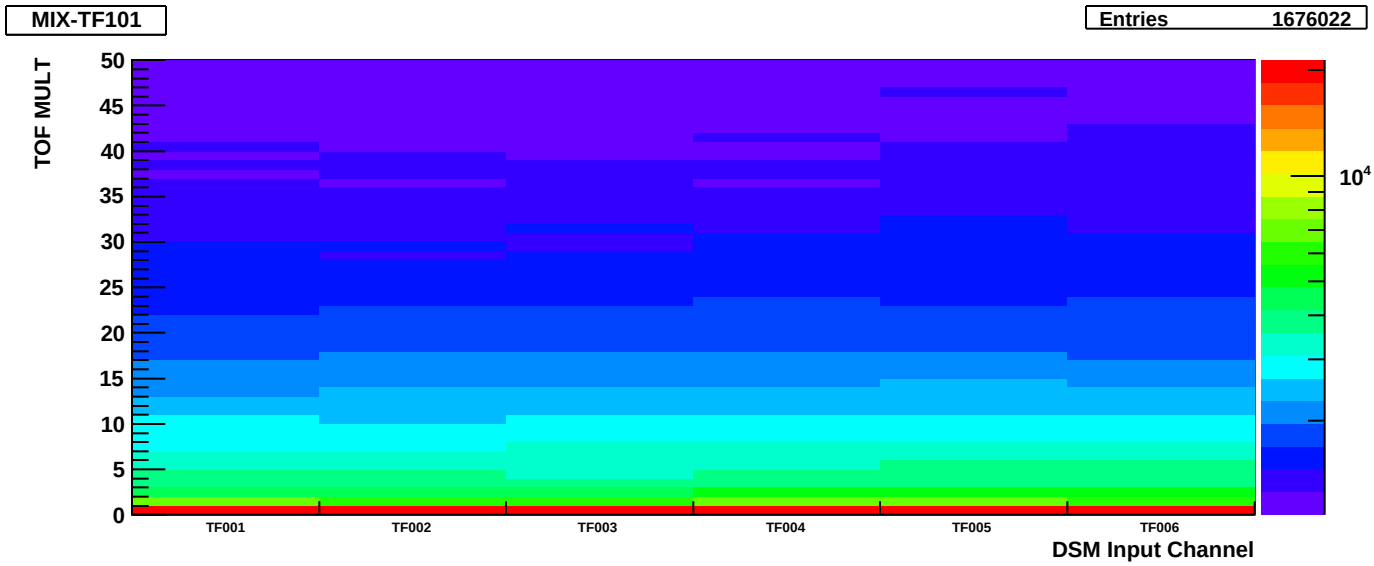

MIX-TF002
Entries 1.173215e+07
TOF MULT
TOF tray

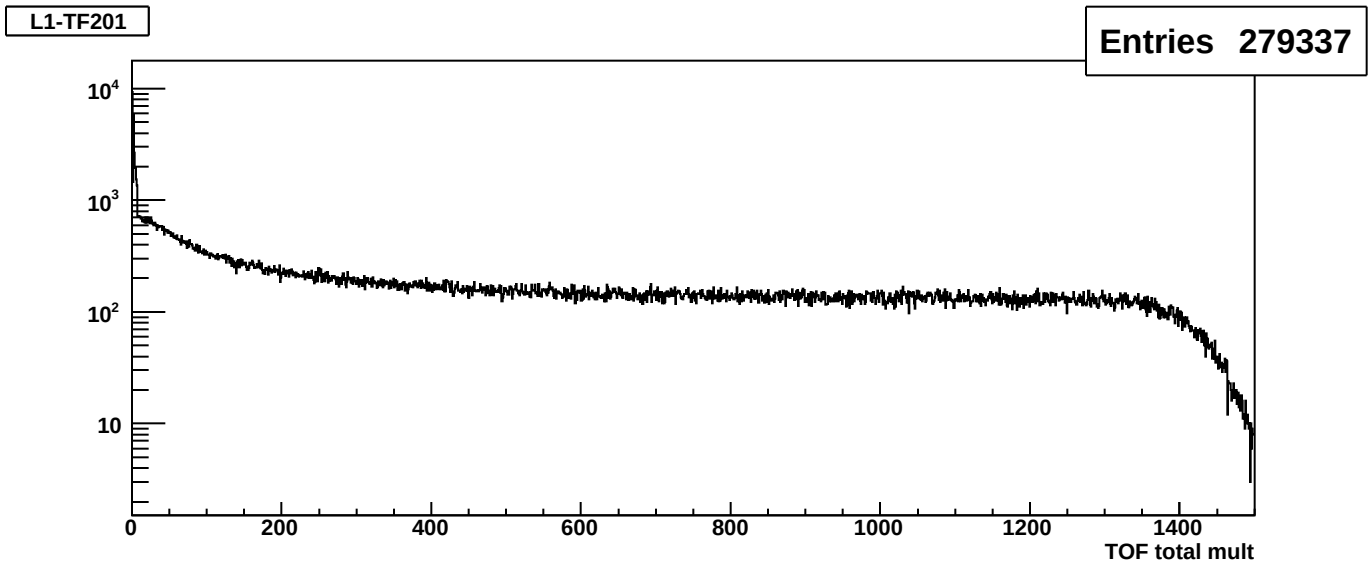

MIX-TF003
Entries 1.173215e+07
TOF MULT
TOF tray

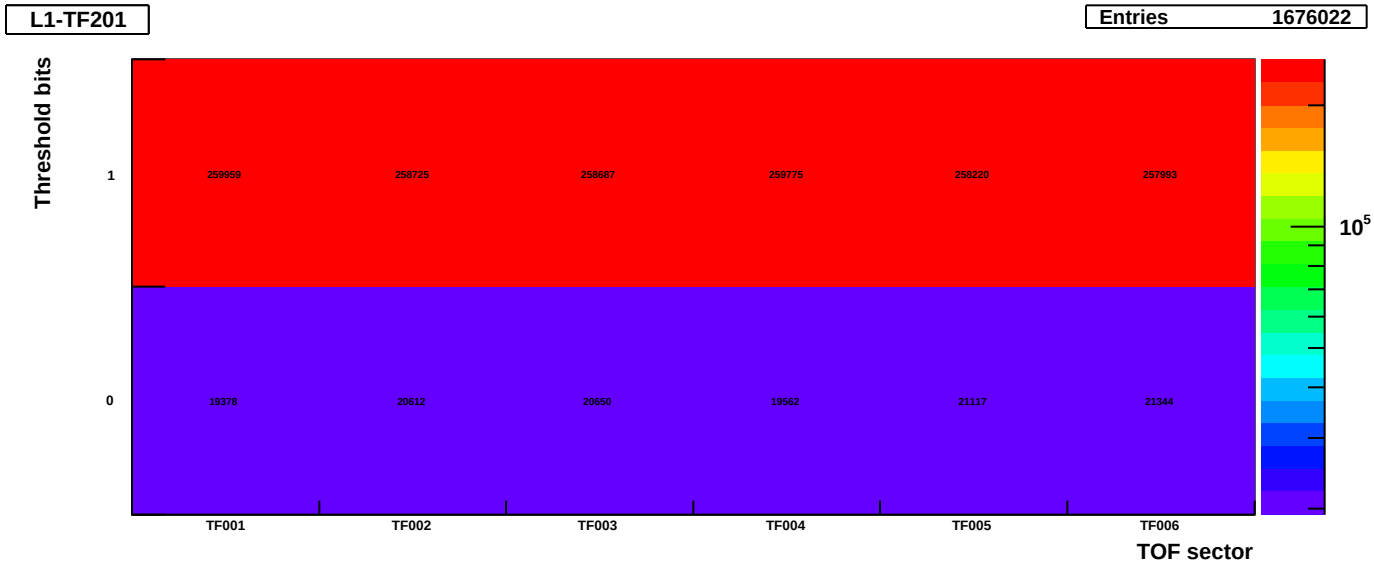

MIX-TF004
Entries 1.173215e+07
TOF MULT
TOF tray

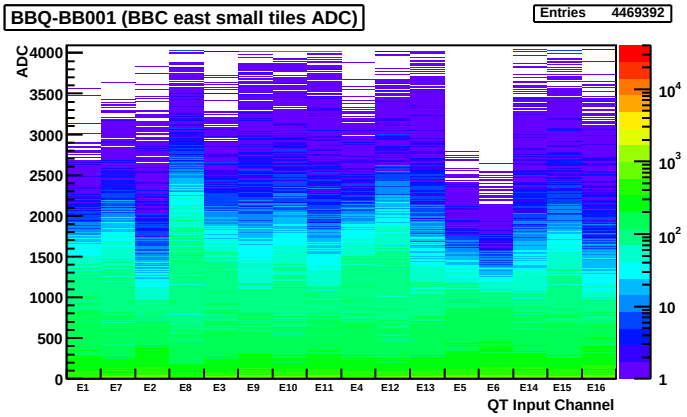

MIX-TF005
Entries 1.173215e+07
TOF MULT
TOF tray

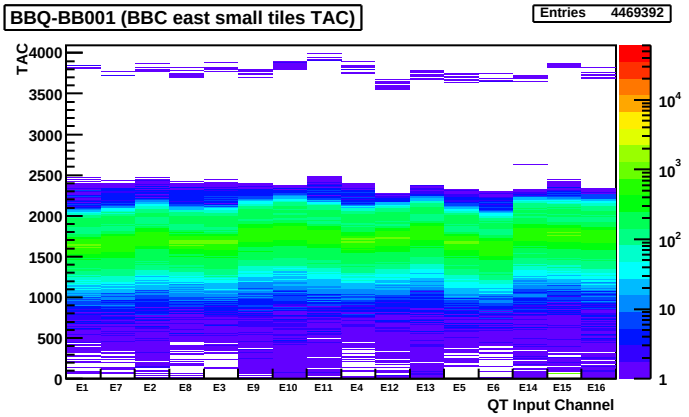

MIX-TF006
Entries 1.173215e+07
TOF MULT
TOF tray

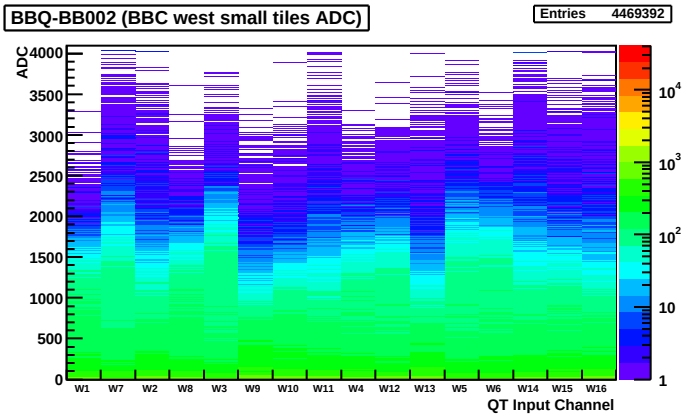

MIX-TF101
Entries 1676022
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

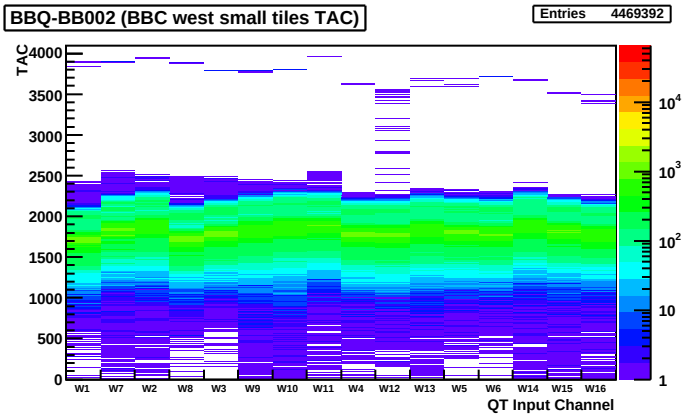

L1-TF201
Entries 279337
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

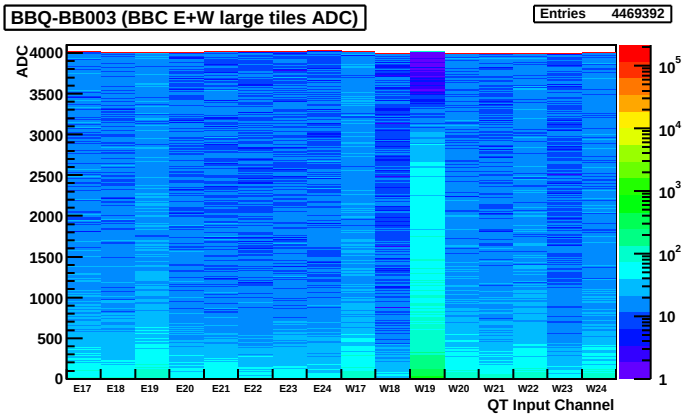

L1-TF201
Entries 1676022
Threshold bits
1
0
259959
258725
258687
259775
258220
257993
19378
20612
20650
19562
21117
21344
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

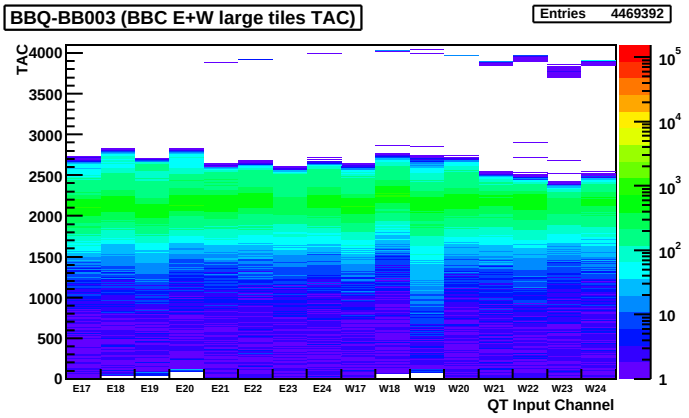

BBQ-BB001 (BBC east small tiles ADC)
Entries 4469392
ADC
QT Input Channel

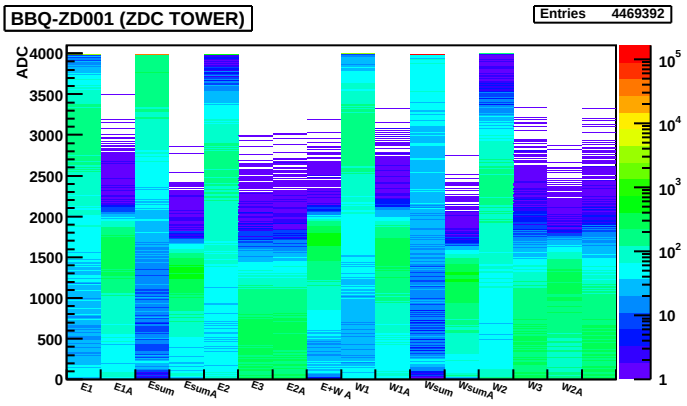

BBQ-BB001 (BBC east small tiles TAC)
Entries 4469392
TAC
QT Input Channel

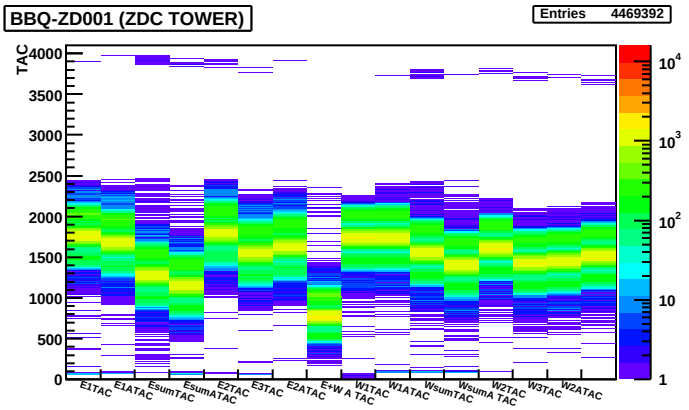

BBQ-BB002 (BBC west small tiles ADC)
Entries 4469392
ADC
QT Input Channel

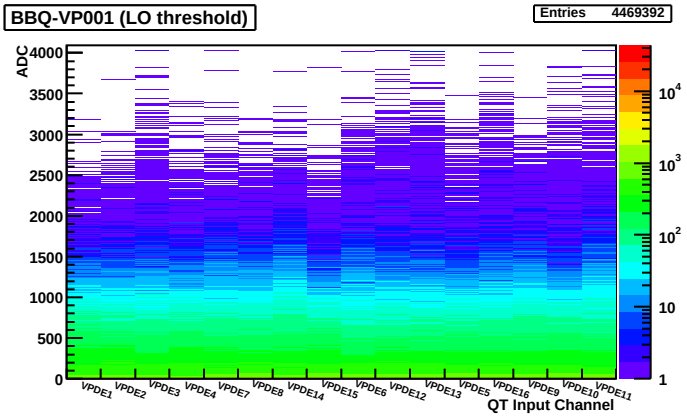

BBQ-BB002 (BBC west small tiles TAC)
Entries 4469392
TAC
QT Input Channel

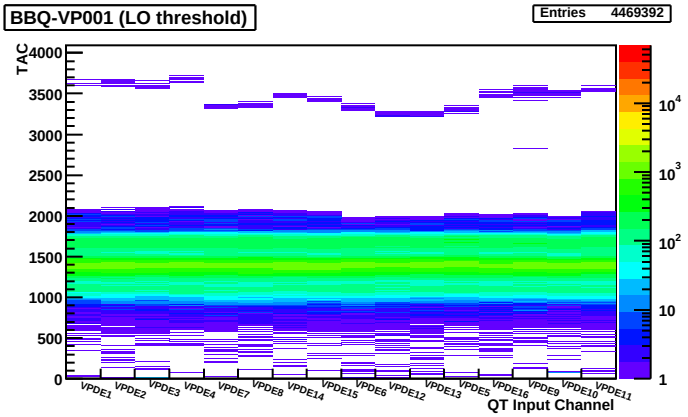

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 4469392
ADC
QT Input Channel

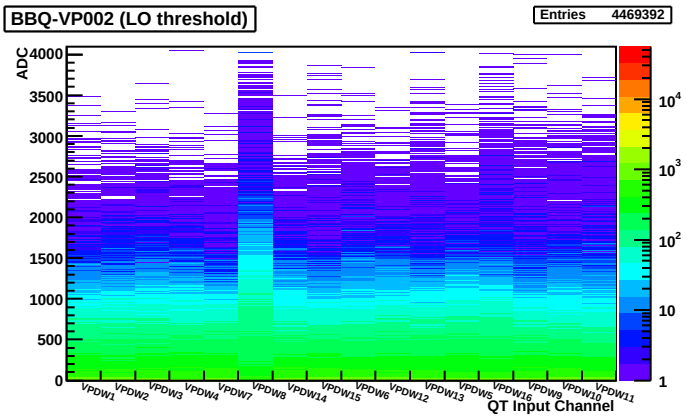

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 4469392
TAC
QT Input Channel

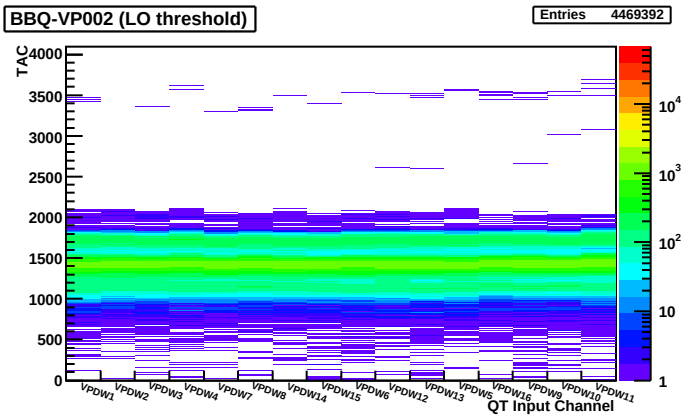

BBQ-ZD001 (ZDC TOWER)
Entries 4469392
ADC

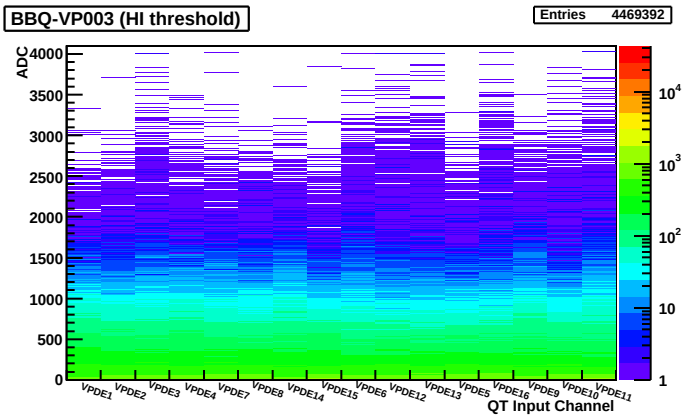

BBQ-ZD001 (ZDC TOWER)
Entries 4469392
TAC

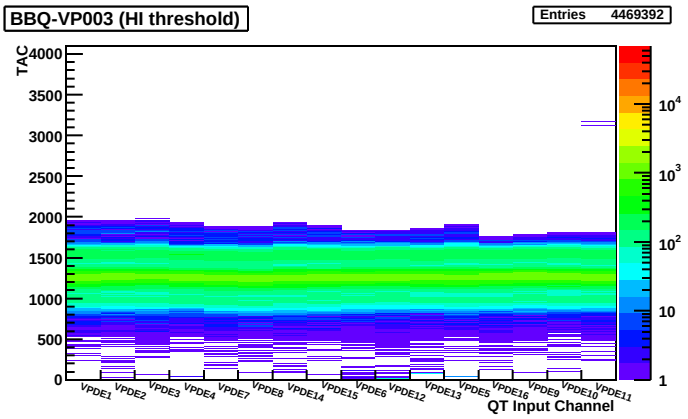

BBQ-VP001 (LO threshold)
Entries 4469392
ADC
QT Input Channel

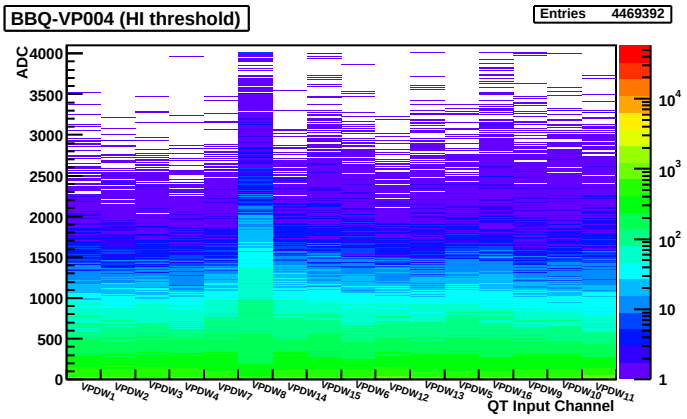

BBQ-VP001 (LO threshold)
Entries 4469392
TAC
QT Input Channel

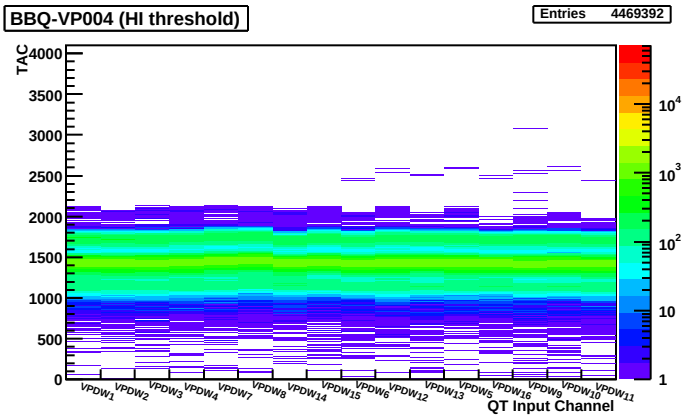

BBQ-VP002 (LO threshold)
Entries 4469392
ADC
QT Input Channel

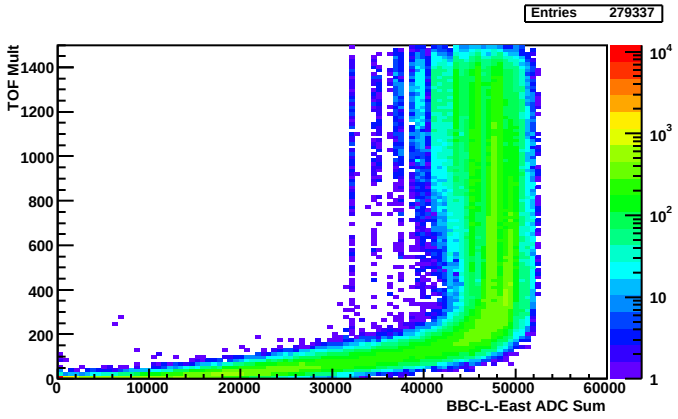

BBQ-VP002 (LO threshold)
Entries 4469392
TAC
QT Input Channel

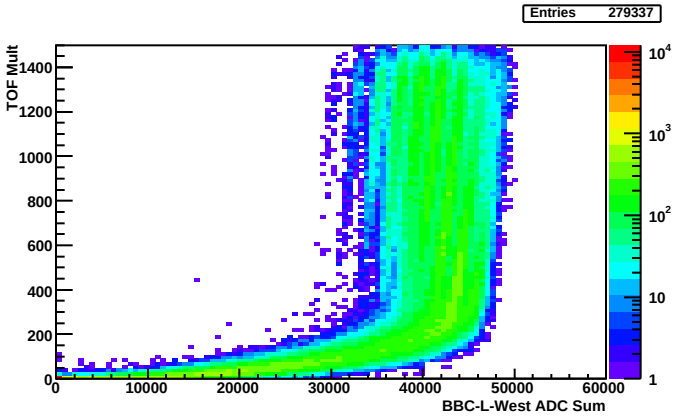

BBQ-VP003 (HI threshold)
Entries 4469392
ADC
QT Input Channel

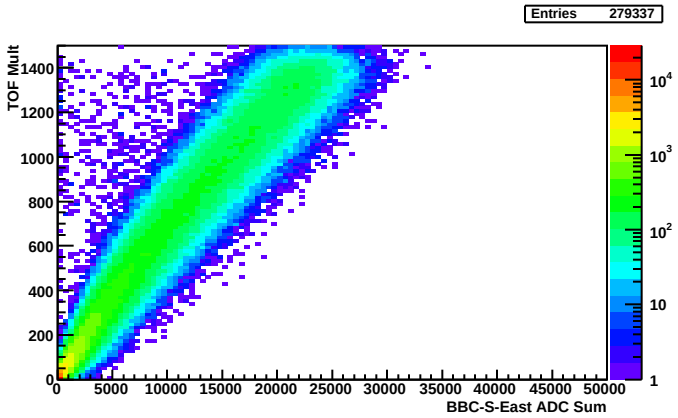

BBQ-VP003 (HI threshold)
Entries 4469392
TAC
QT Input Channel

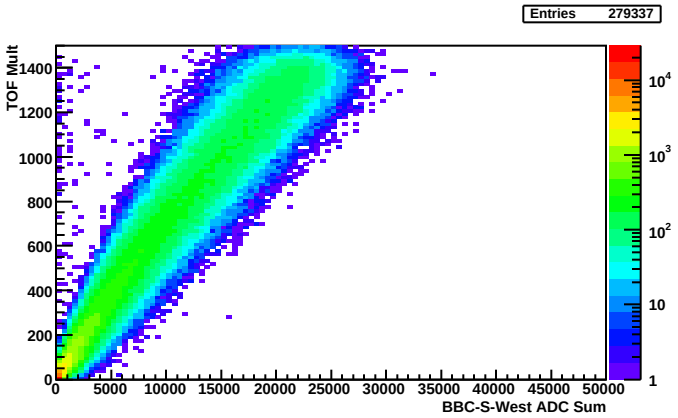

BBQ-VP004 (HI threshold)
Entries 4469392
ADC
QT Input Channel

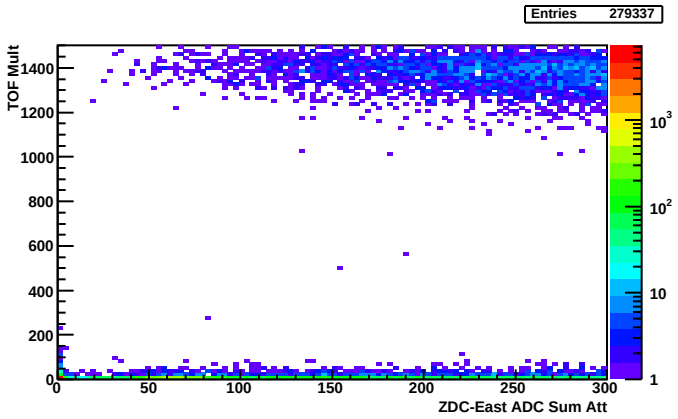

BBQ-VP004 (HI threshold)
Entries 4469392
TAC
QT Input Channel

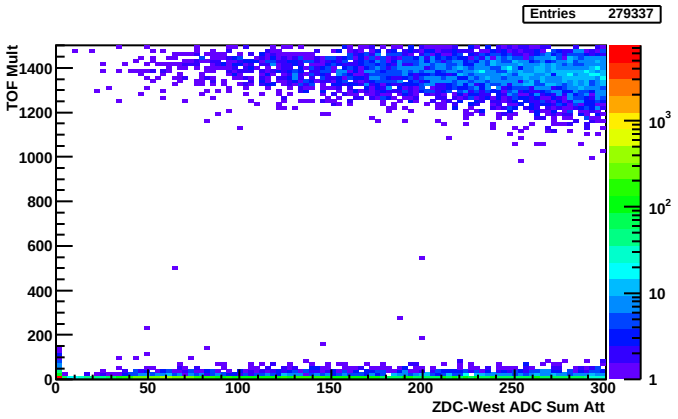

Entries 279337
TOF Mult
BBC-L-East ADC Sum

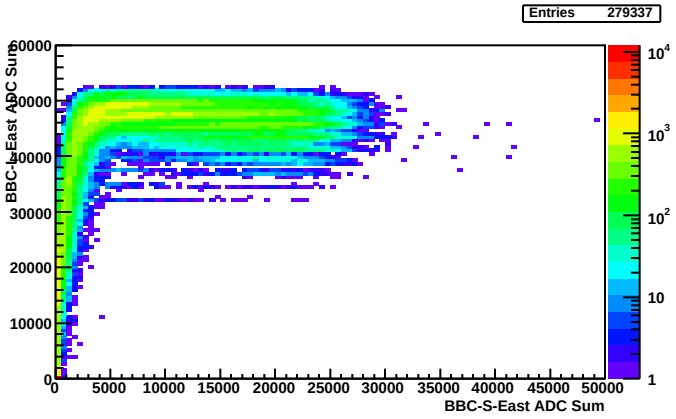

Entries 279337
TOF Mult
BBC-L-West ADC Sum

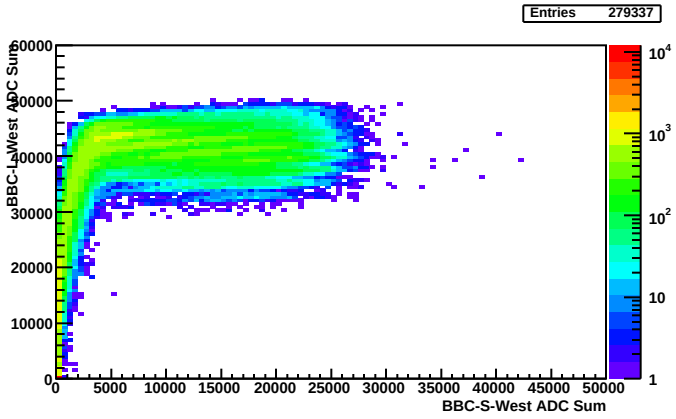

Entries 279337
TOF Mult
BBC-S-East ADC Sum

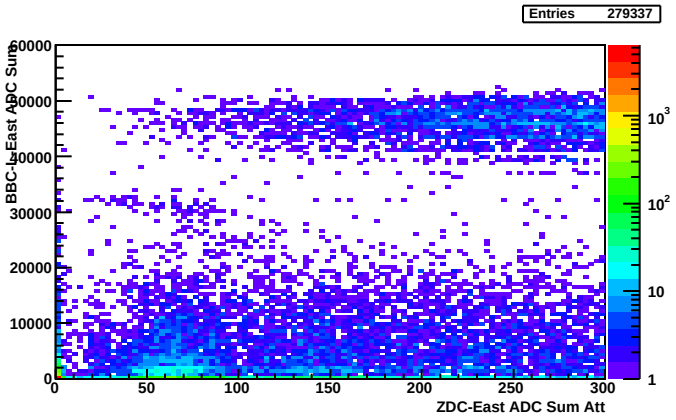

Entries 279337
TOF Mult
BBC-S-West ADC Sum

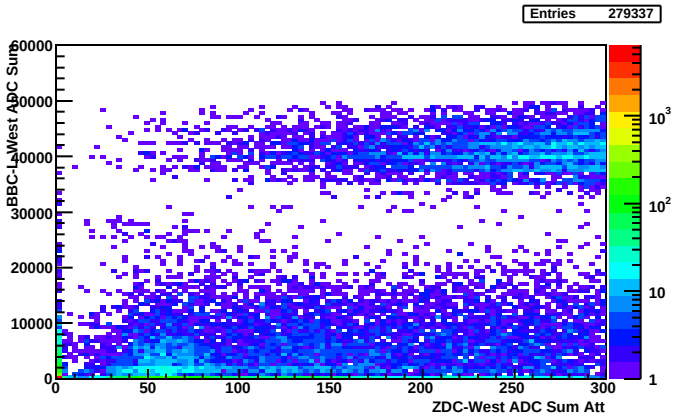

Entries 279337
TOF Mult
ZDC-East ADC Sum Att

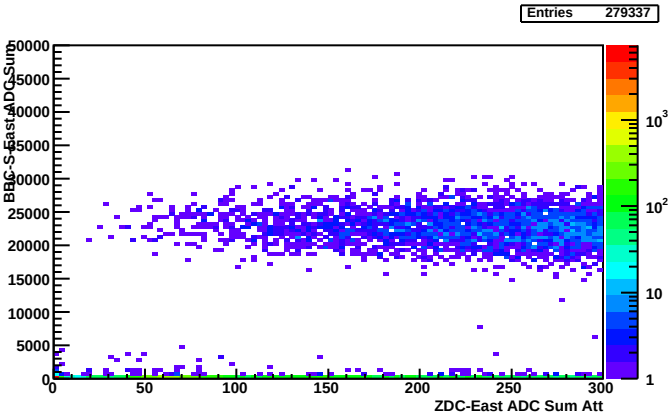

Entries 279337
TOF Mult
ZDC-West ADC Sum Att

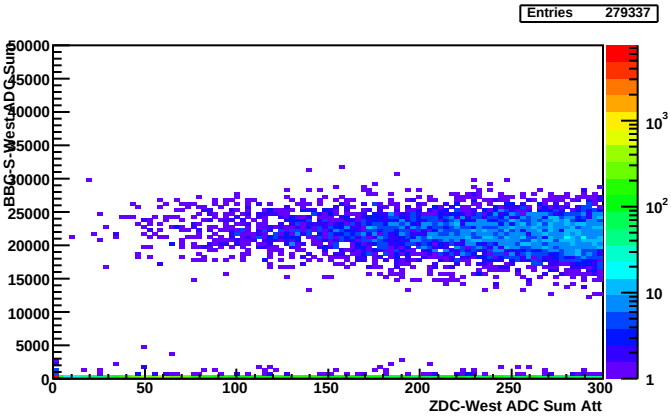

Entries 279337
BBC-L-East ADC Sum
BBC-S-East ADC Sum

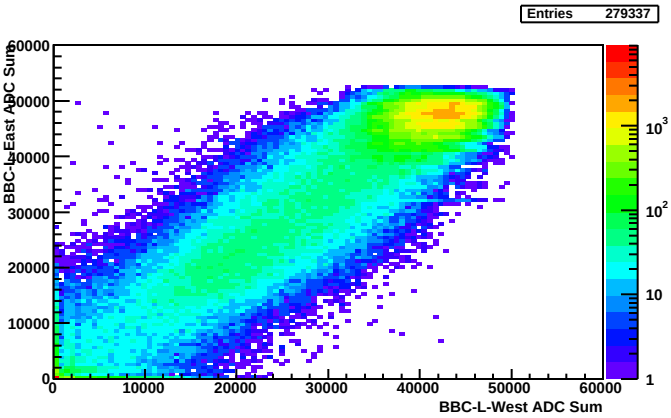

Entries 279337
BBC-L-West ADC Sum
BBC-S-West ADC Sum

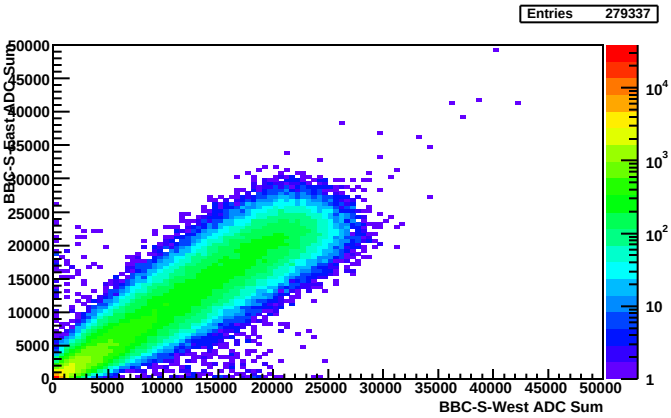

Entries 279337
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

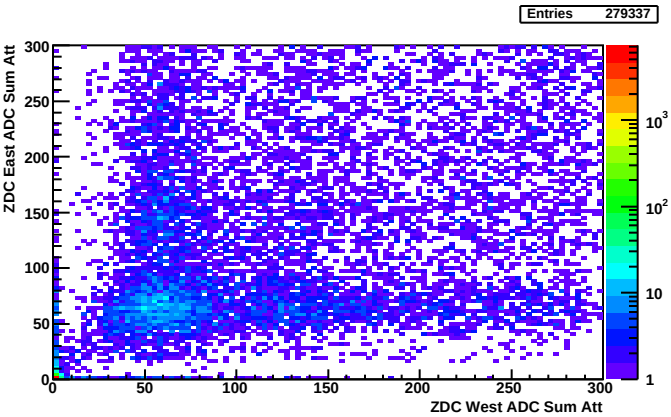

Entries 279337
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

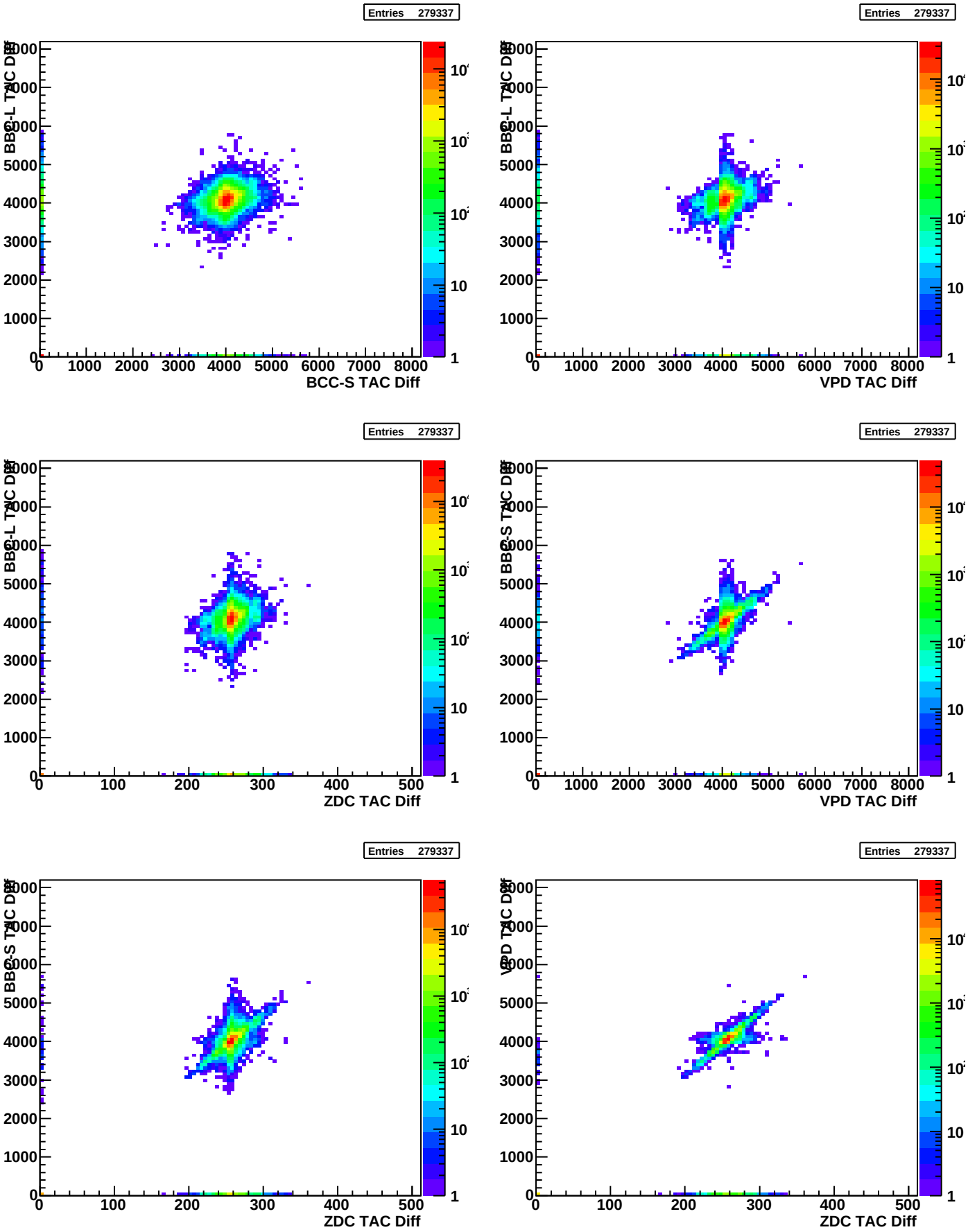

Entries 279337
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

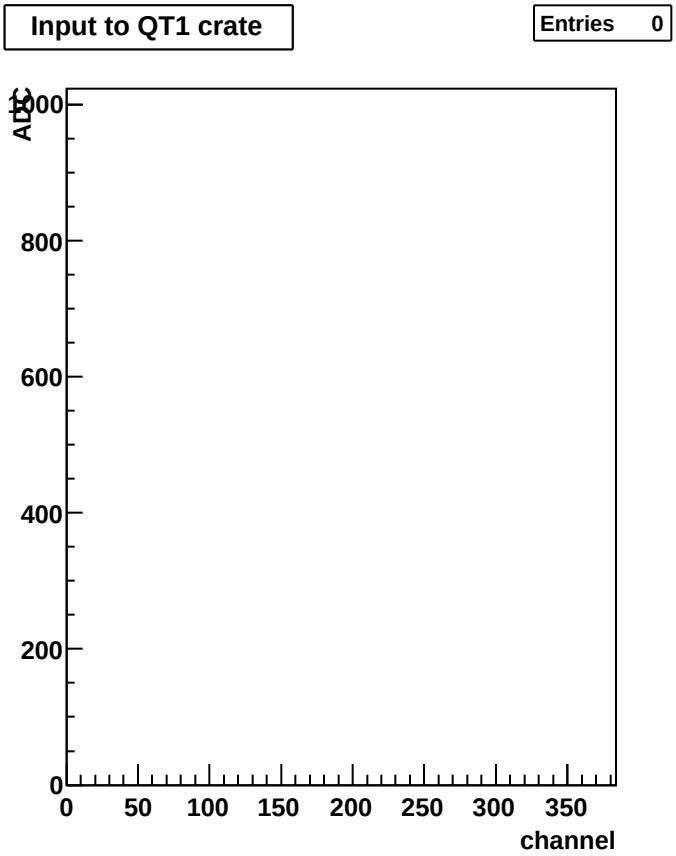

Entries 279337
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

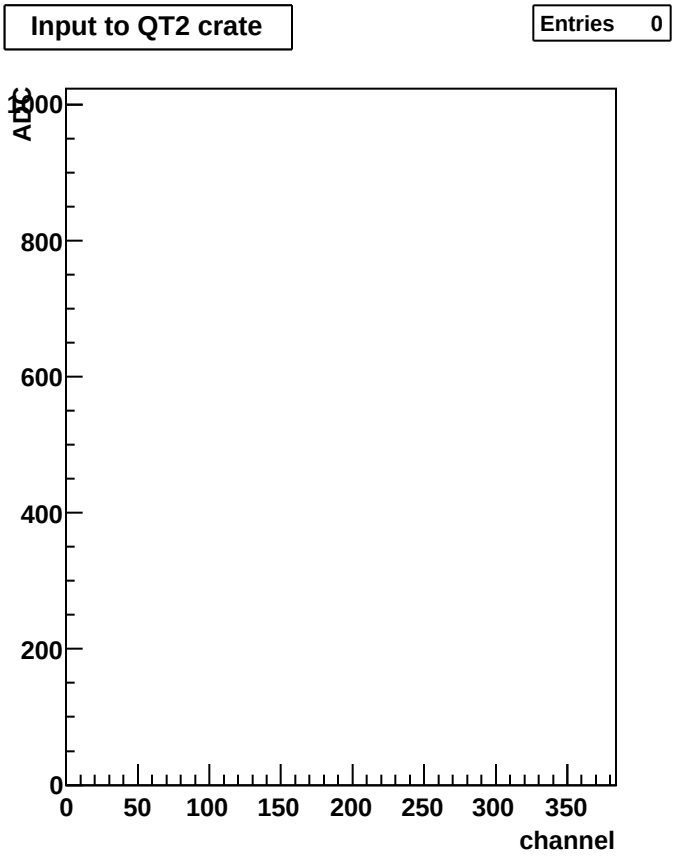

Entries 279337
BBC-L-East ADC Sum
BBC-L-West ADC Sum

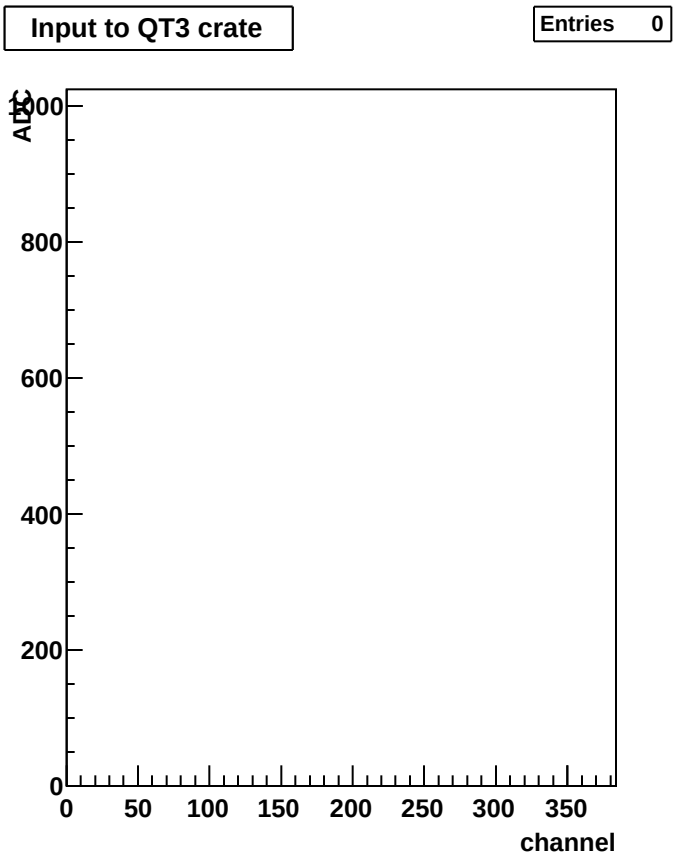

Entries 279337
BBC-S-East ADC Sum
BBC-S-West ADC Sum

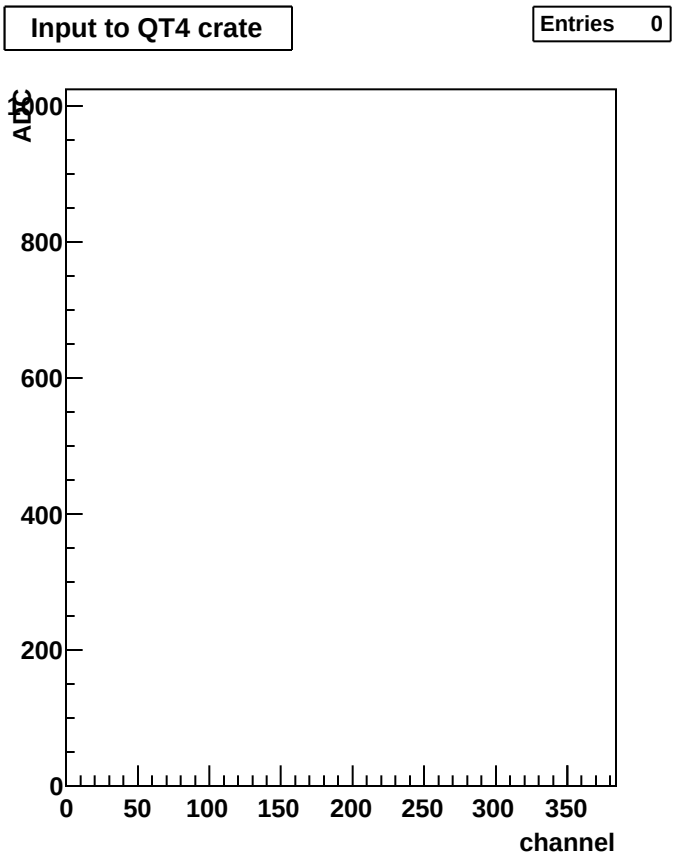

Entries 279337
ZDC East ADC Sum Att
ZDC West ADC Sum Att

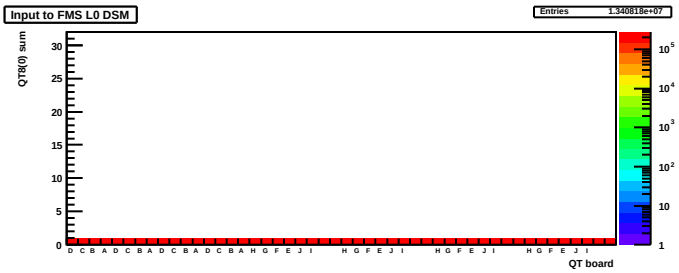

Entries 279337
BBC-L TAC Diff
BCC-S TAC Diff
VPD TAC Diff
ZDC TAC Diff
BBC-S TAC Diff

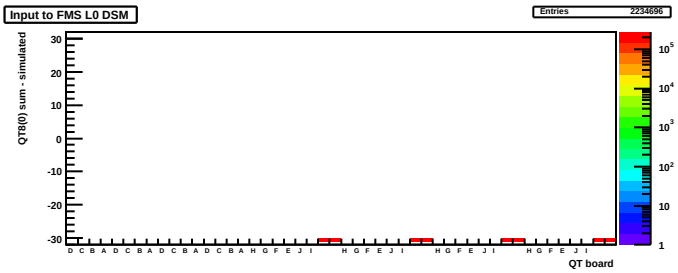

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

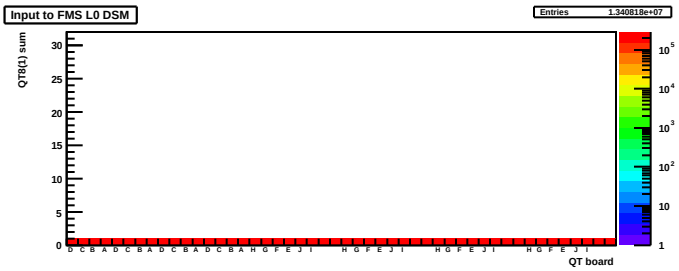

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

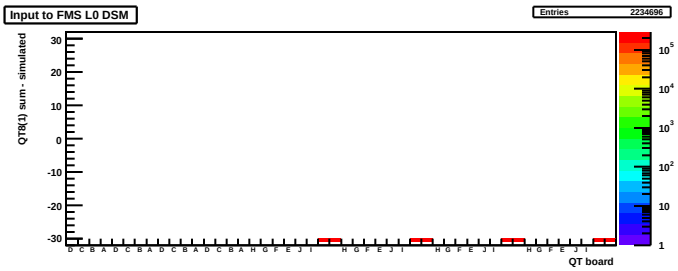

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

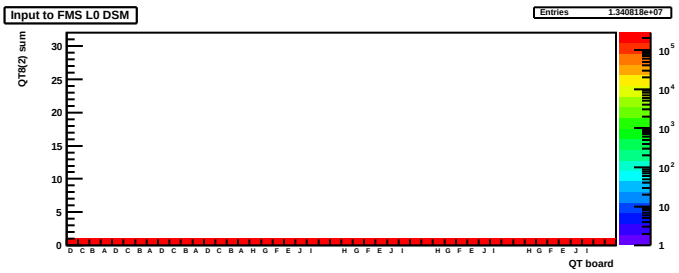

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

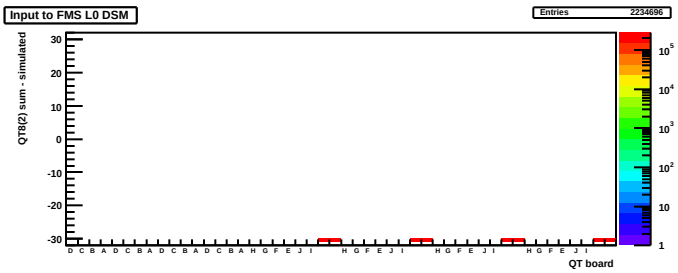

Input to FMS L0 DSM
Entries 1.340818e+07
QT8(0) sum
QT board

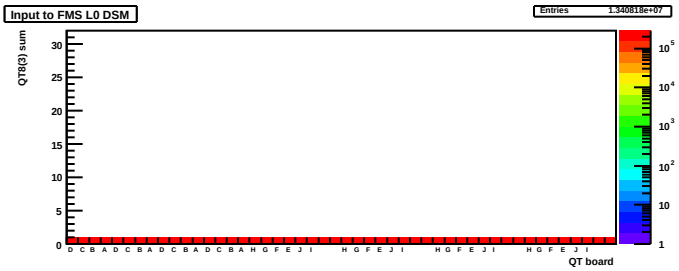

Input to FMS L0 DSM
Entries 2234696
QT8(0) sum - simulated
QT board

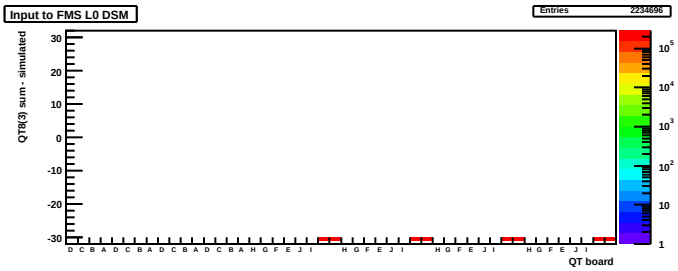

Input to FMS L0 DSM
Entries 1.340818e+07
QT8(1) sum
QT board

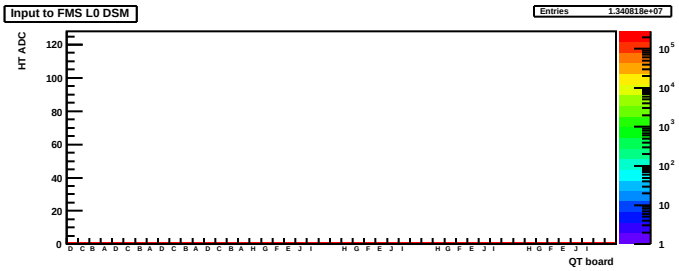

Input to FMS L0 DSM
Entries 2234696
QT8(1) sum - simulated
QT board

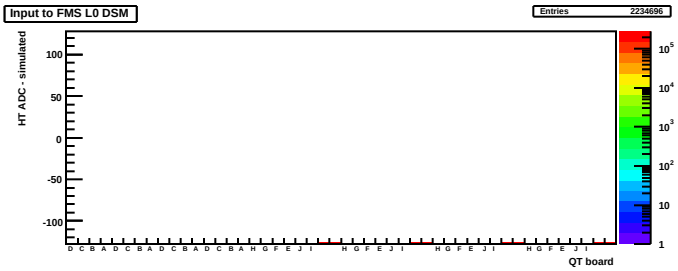

Input to FMS L0 DSM
Entries 1.340818e+07
QT8(2) sum
QT board

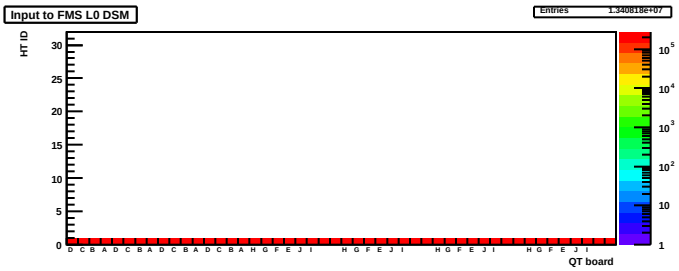

Input to FMS L0 DSM
Entries 2234696
QT8(2) sum - simulated
QT board

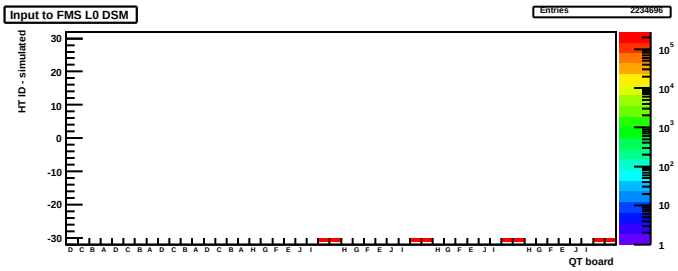

Input to FMS L0 DSM
Entries 1.340818e+07
QT8(3) sum
QT board

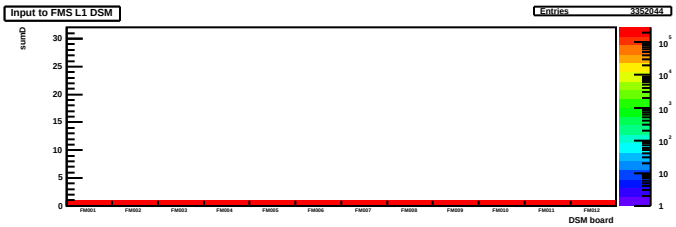

Input to FMS L0 DSM
Entries 2234696
QT8(3) sum - simulated
QT board

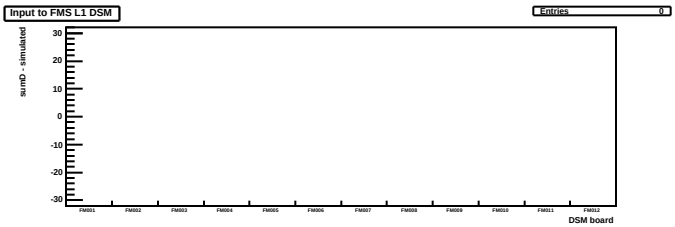

Input to FMS L0 DSM
Entries 1.340818e+07
HT ADC
QT board

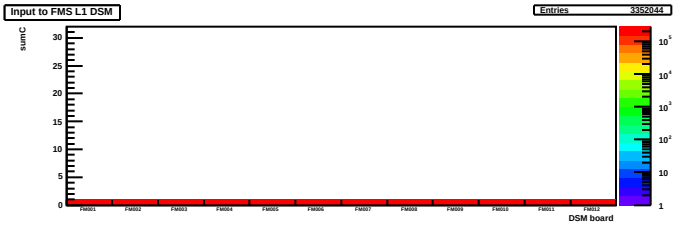

Input to FMS L0 DSM
Entries 2234696
HT ADC - simulated
QT board

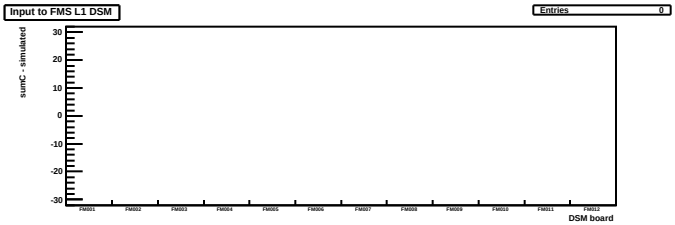

Input to FMS L0 DSM
Entries 1.340818e+07
HT ID
QT board

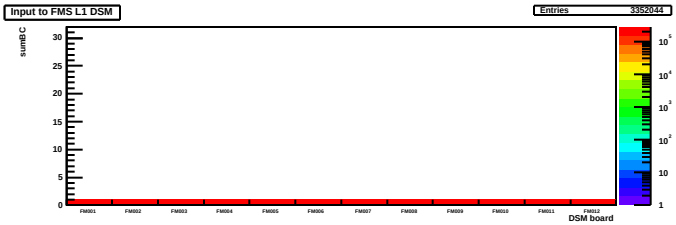

Input to FMS L0 DSM
Entries 2234696
HT ID - simulated
QT board

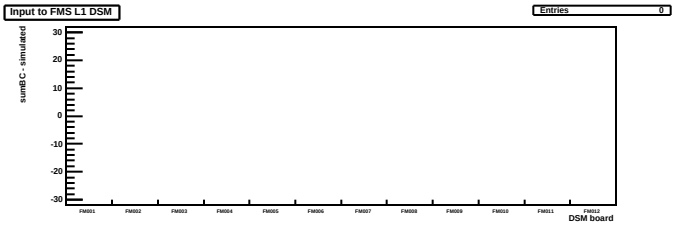

Input to FMS L1 DSM
Entries 3352044
sumD
DSM board

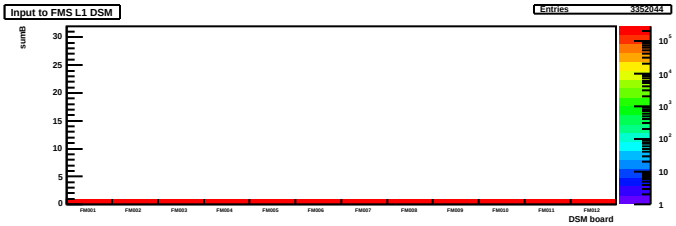

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

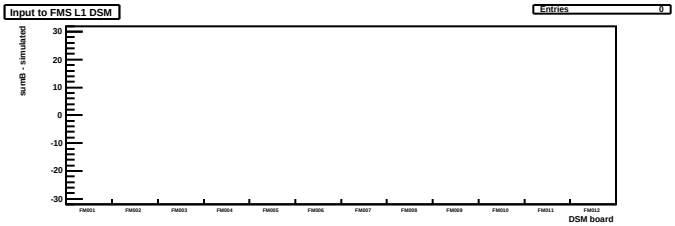

Input to FMS L1 DSM
Entries 3352044
sumC
DSM board

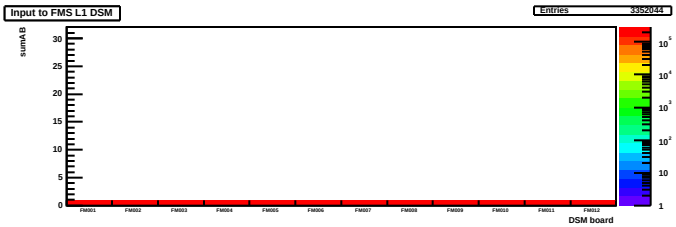

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

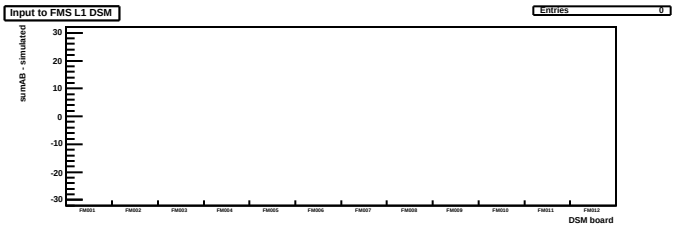

Input to FMS L1 DSM
Entries 3352044
sumBC
DSM board

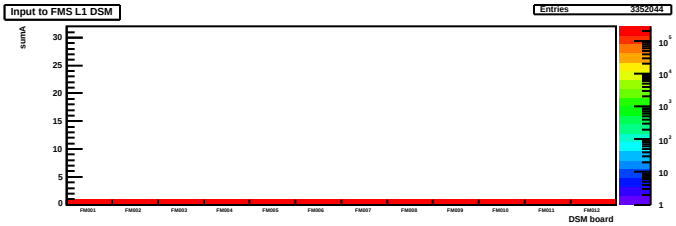

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

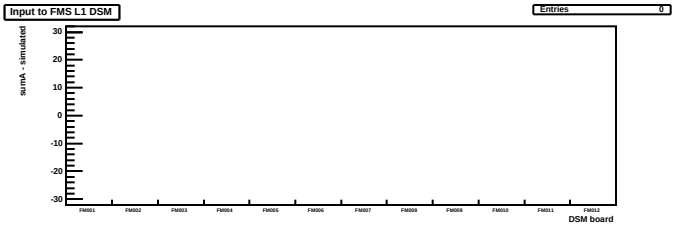

Input to FMS L1 DSM
Entries 3352044
sumB
DSM board

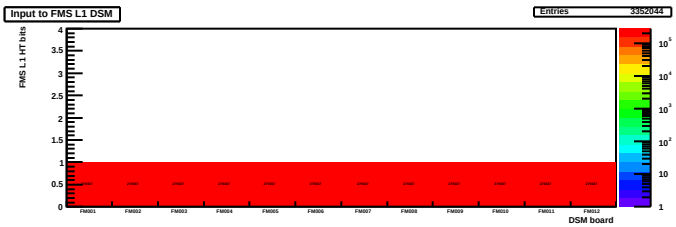

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

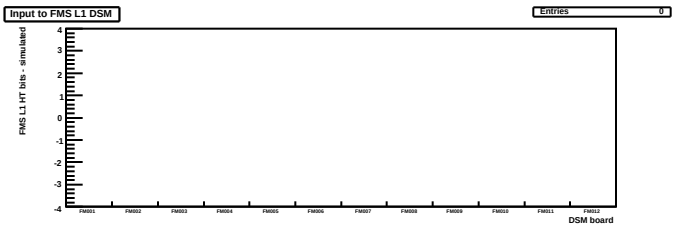

Input to FMS L1 DSM
Entries 3352044
sumAB
DSM board

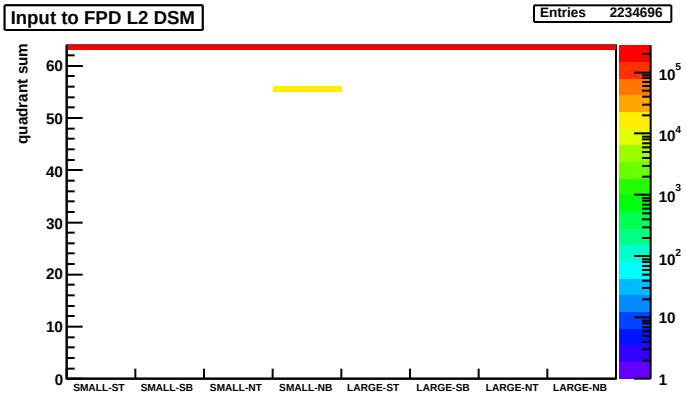

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

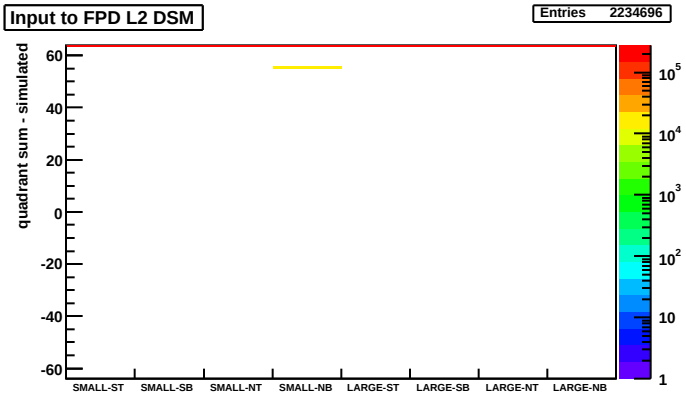

Input to FMS L1 DSM
Entries 3352044
sumA
DSM board

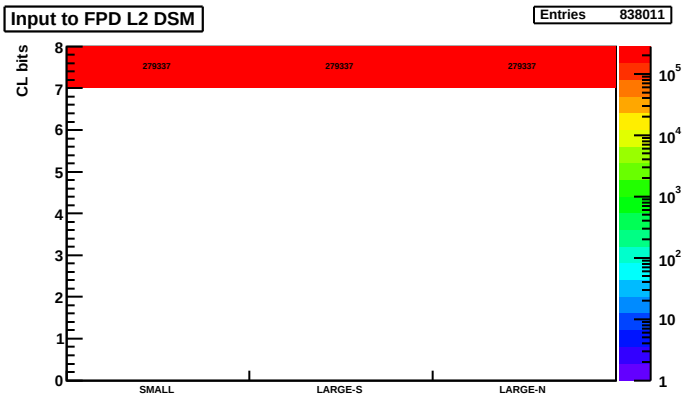

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

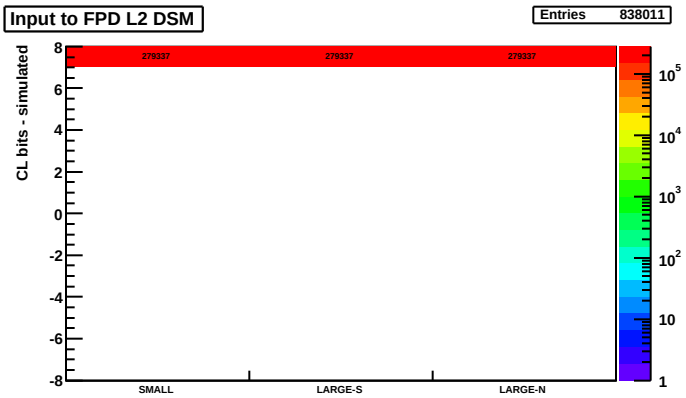

Input to FMS L1 DSM
Entries 3352044
FMS L1 HT bits
DSM board

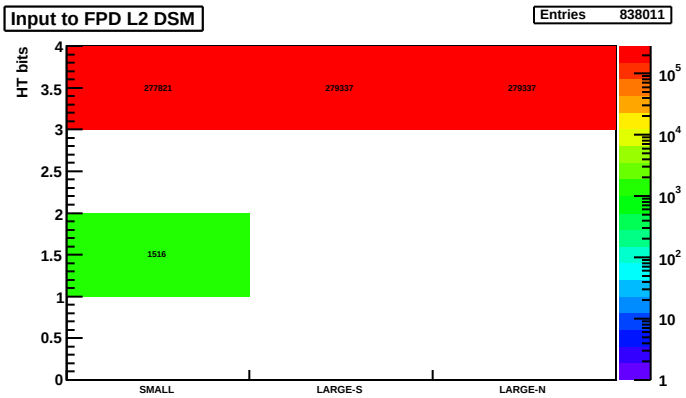

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

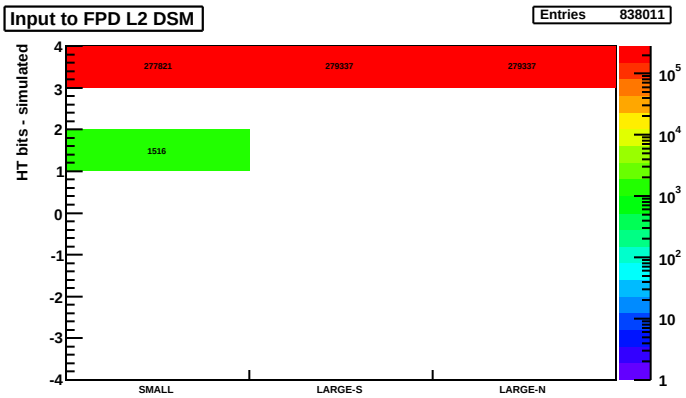

Input to FPD L2 DSM
Entries 2234696
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

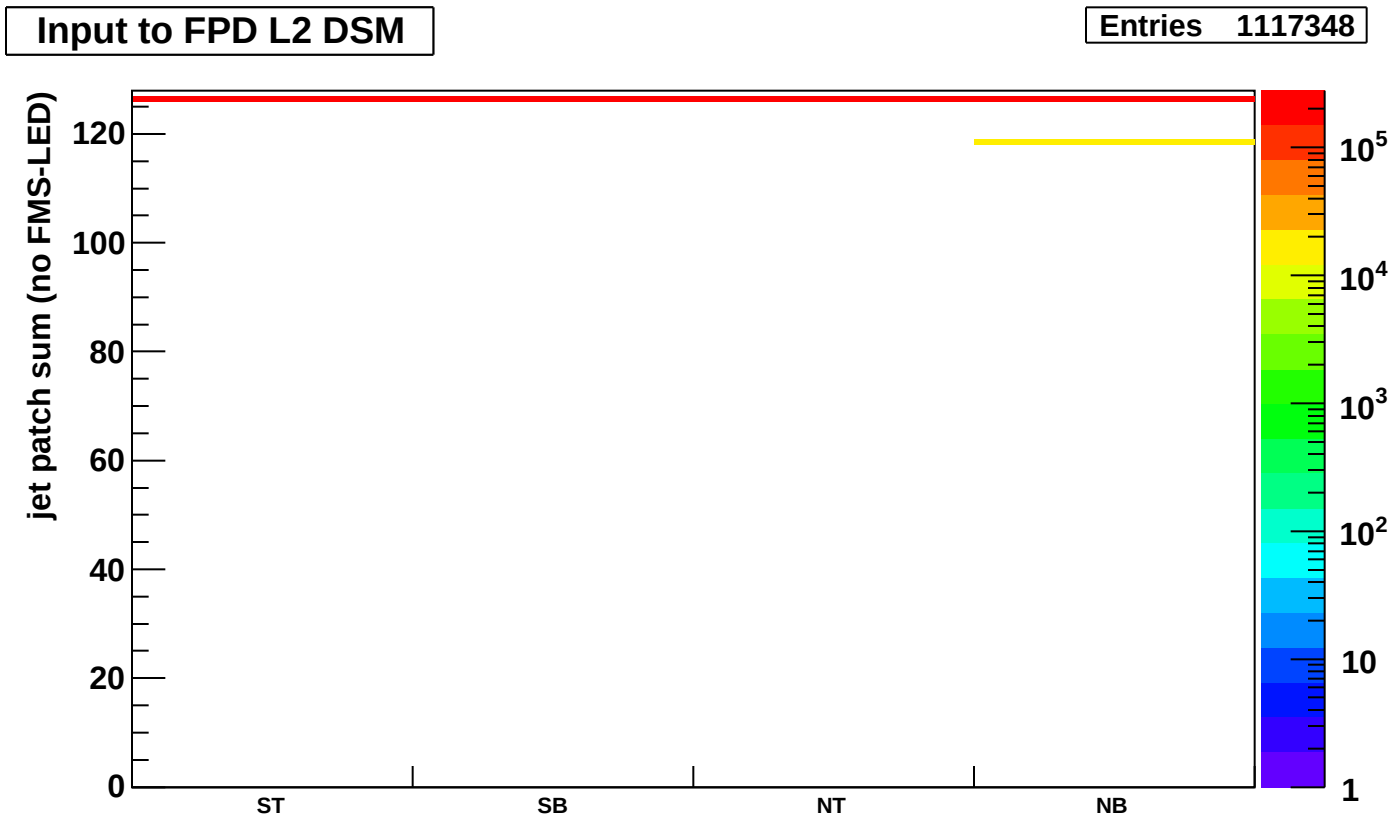

Input to FPD L2 DSM
Entries 2234696
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

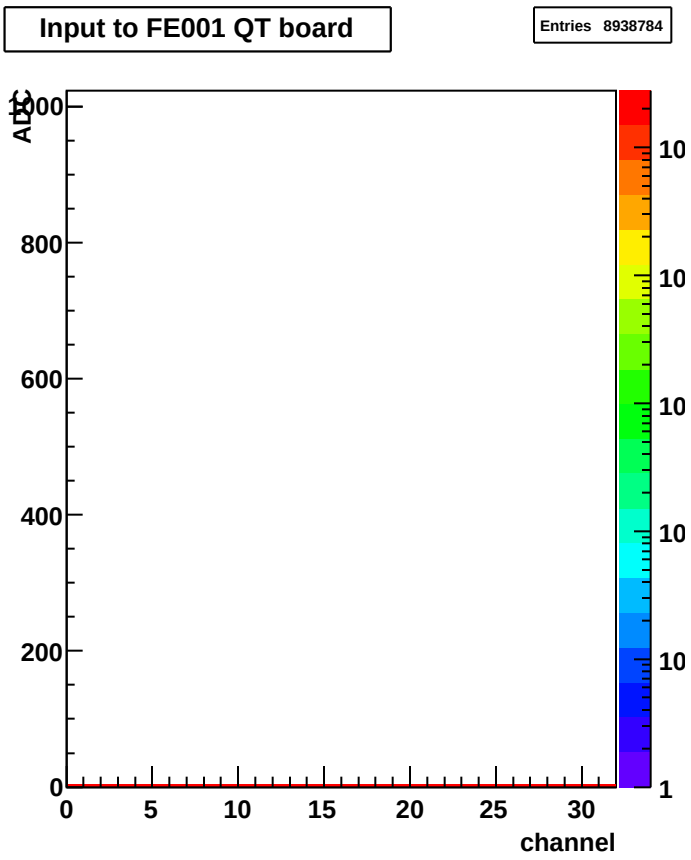

Input to FPD L2 DSM
Entries 838011
CL bits
279337
279337
279337
SMALL
LARGE-S
LARGE-N

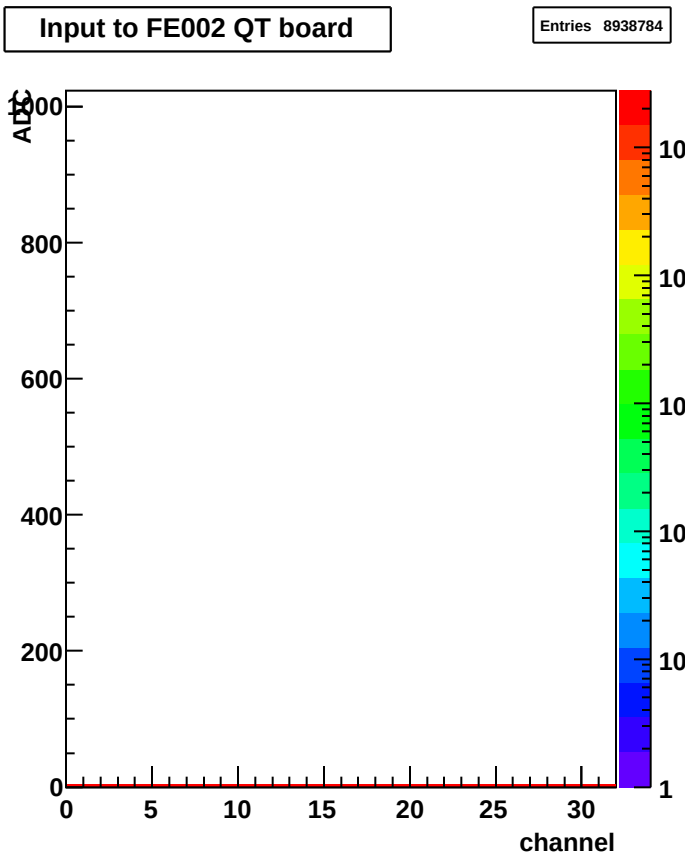

Input to FPD L2 DSM
Entries 838011
CL bits - simulated
279337
279337
279337
SMALL
LARGE-S
LARGE-N

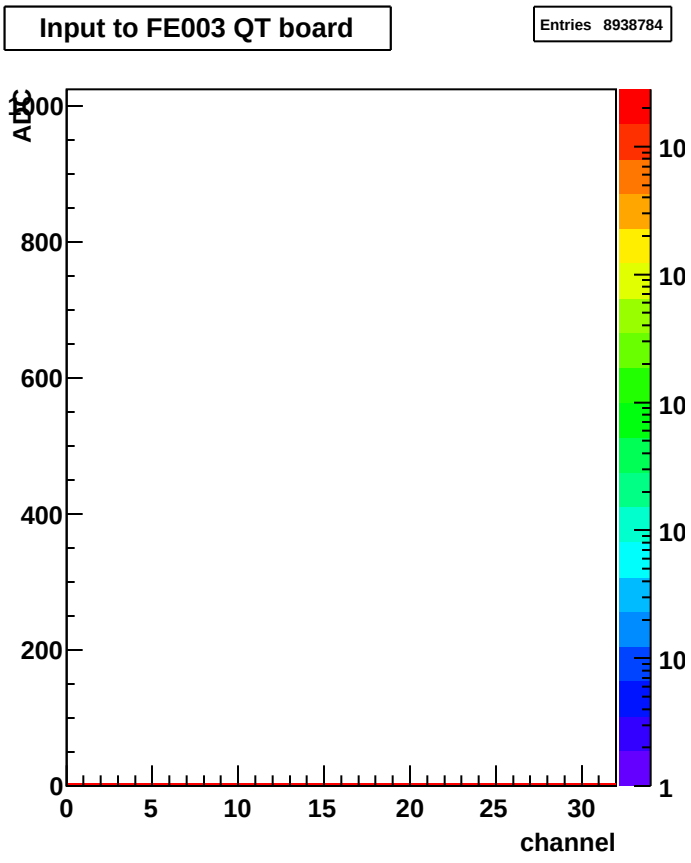

Input to FPD L2 DSM
Entries 838011
HT bits
277821
279337
279337
1516
SMALL
LARGE-S
LARGE-N

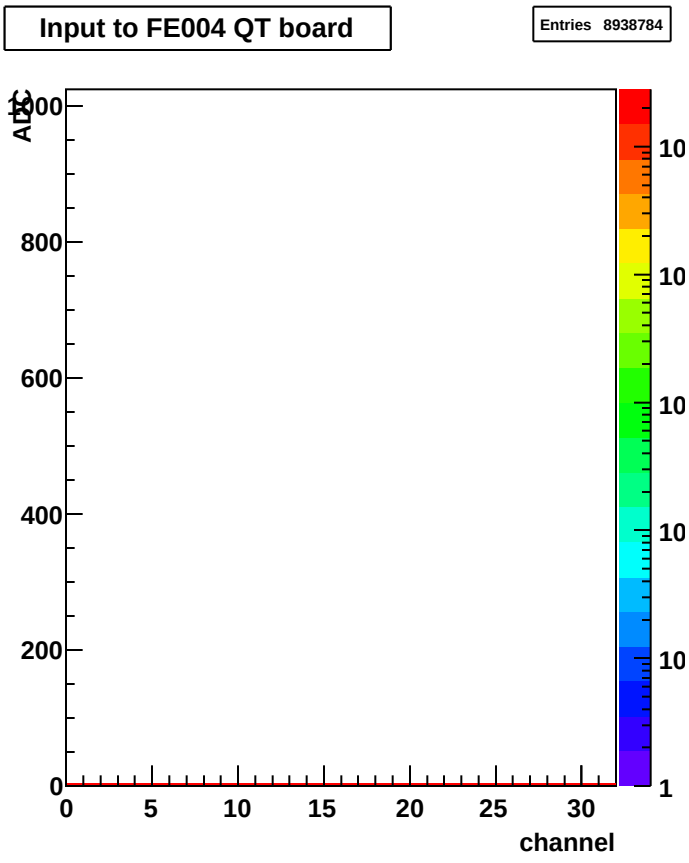

Input to FPD L2 DSM
Entries 838011
HT bits - simulated
277821
279337
279337
1516
SMALL
LARGE-S
LARGE-N

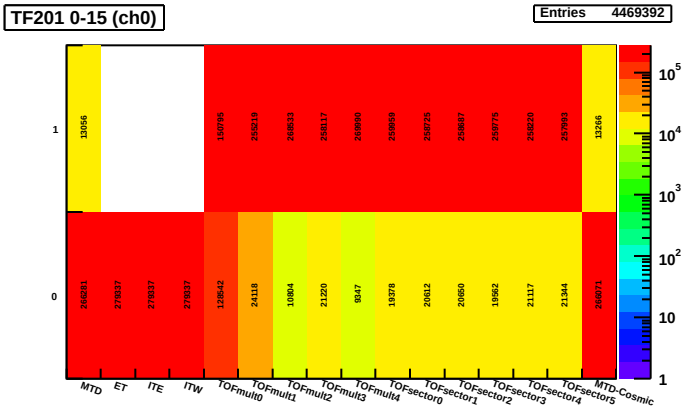

Input to FPD L2 DSM
Entries 1117348
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

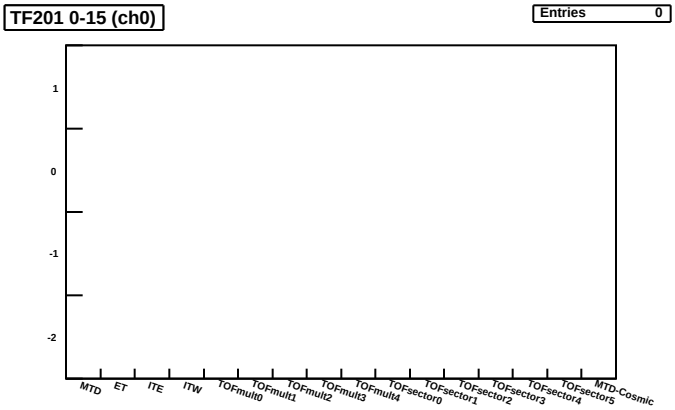

Input to FE001 QT board
Entries 8938784
ADC
channel

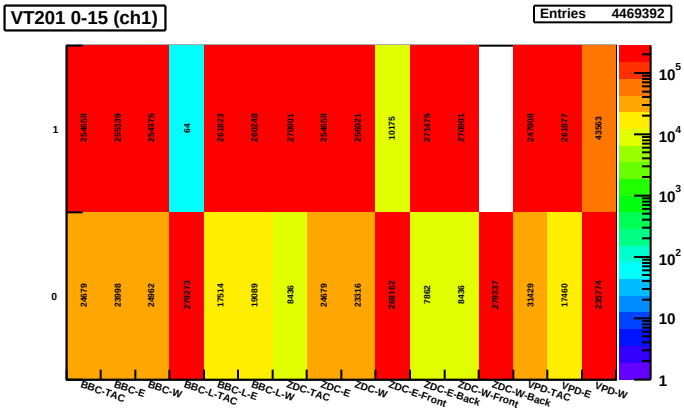

Input to FE002 QT board
Entries 8938784
ADC
channel

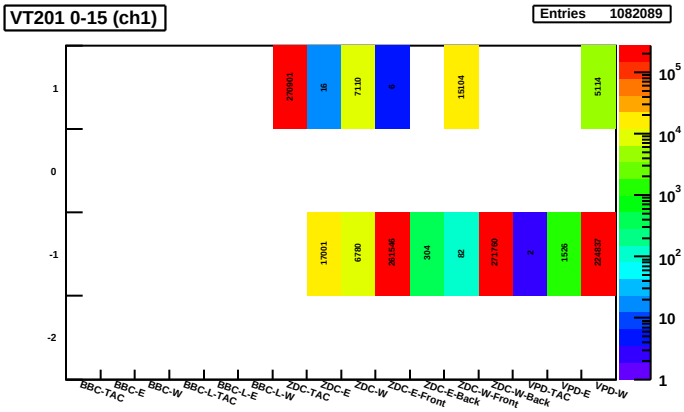

Input to FE003 QT board
Entries 8938784
ADC
channel

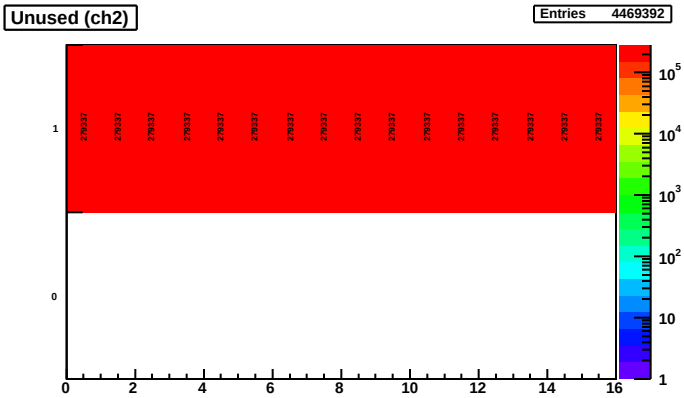

Input to FE004 QT board
Entries 8938784
ADC
channel

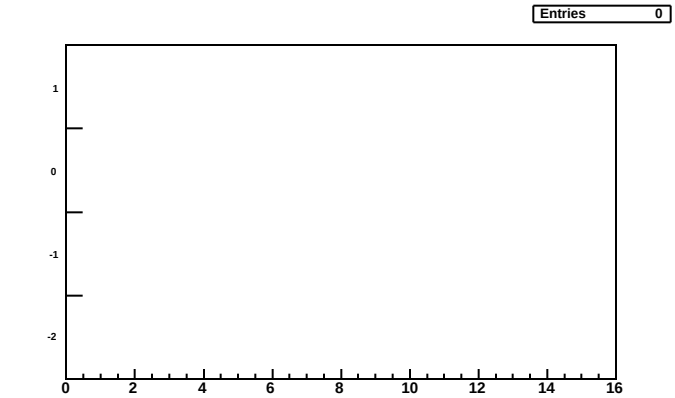

TF201 0-15 (ch0)
Entries 4469392
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

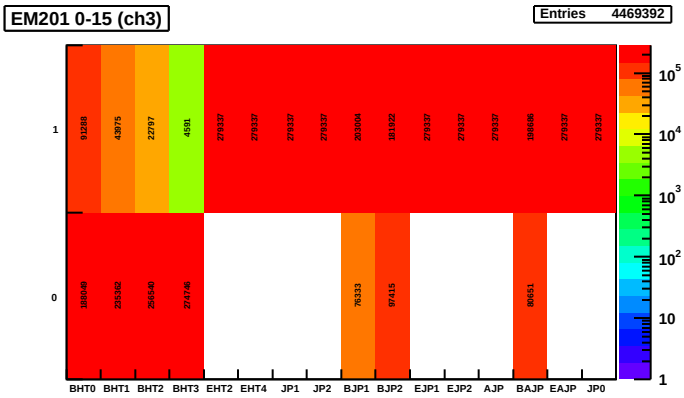

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

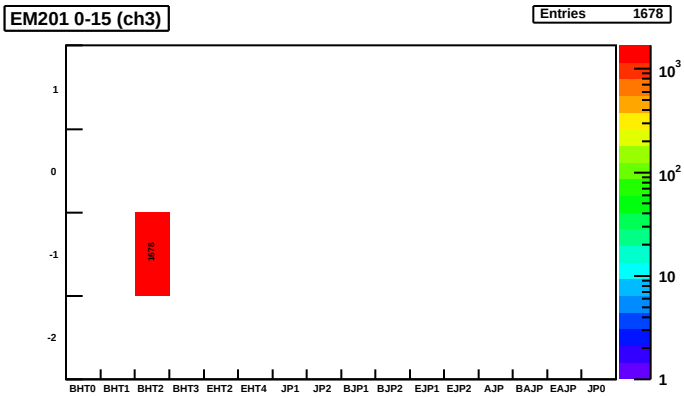

VT201 0-15 (ch1)
Entries 4469392
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1082089
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

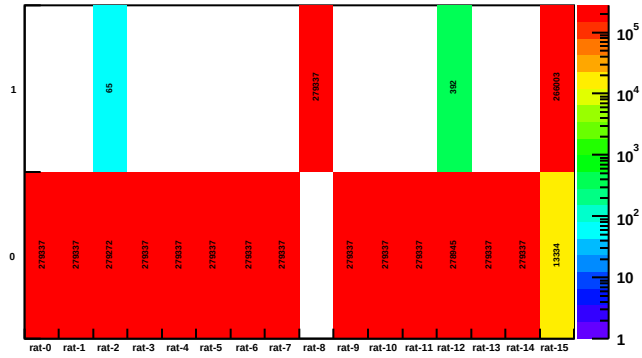

Unused (ch2)
Entries 4469392

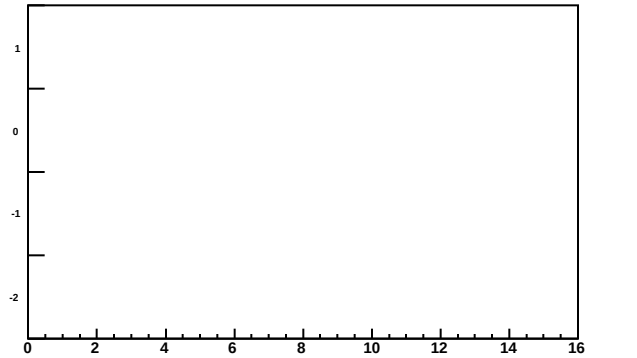

Entries 0


EM201 0-15 (ch3)
Entries 4469392
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

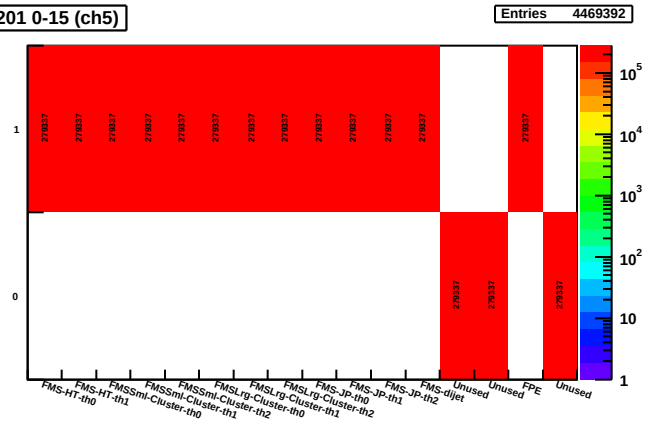

EM201 0-15 (ch3)
Entries 1678
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

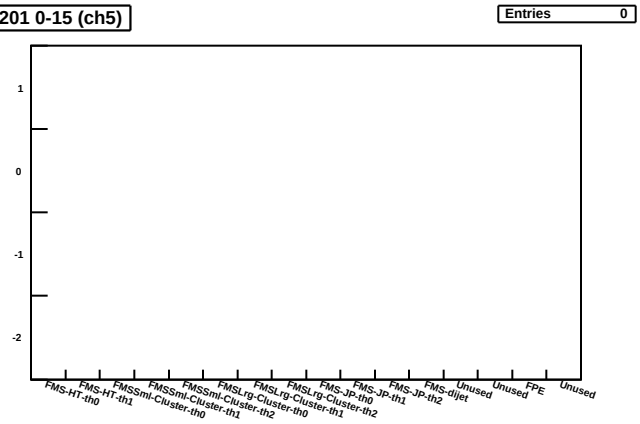




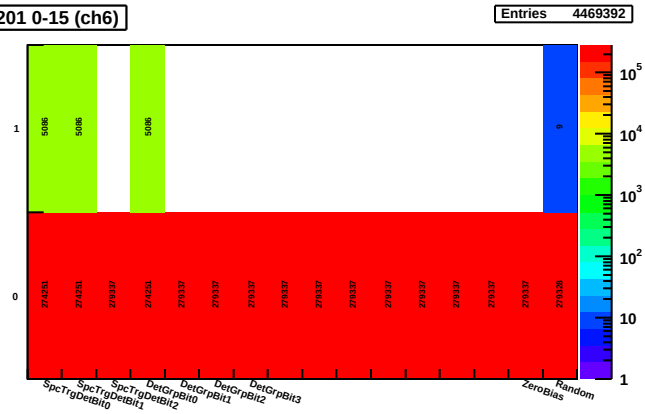
FP201 0-15 (ch5)

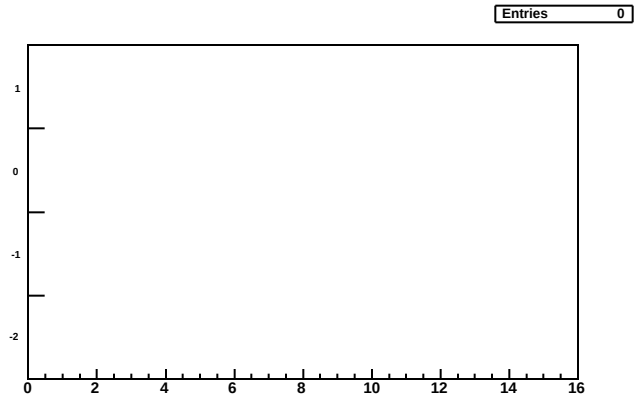
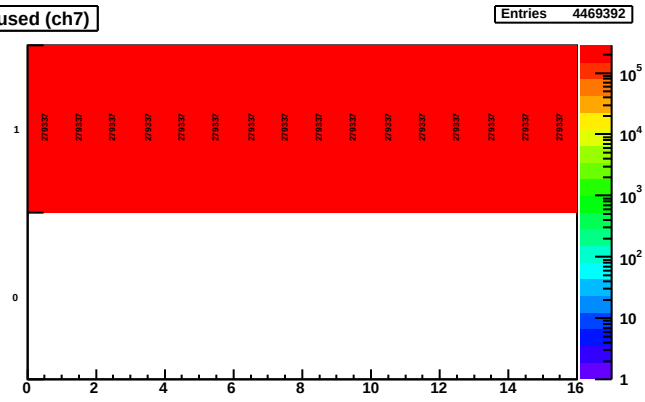
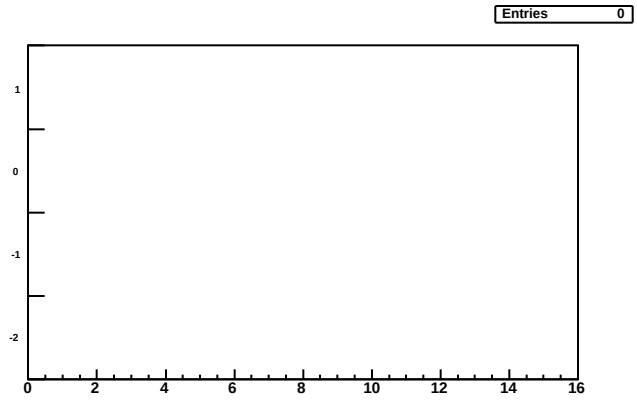


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)