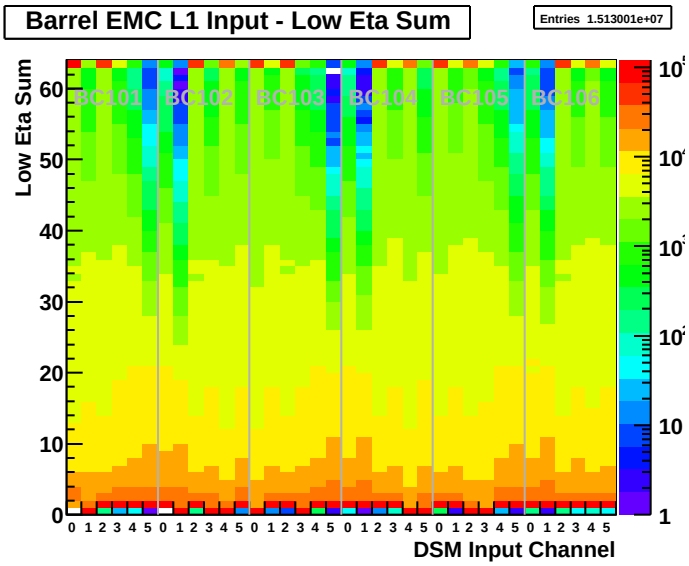
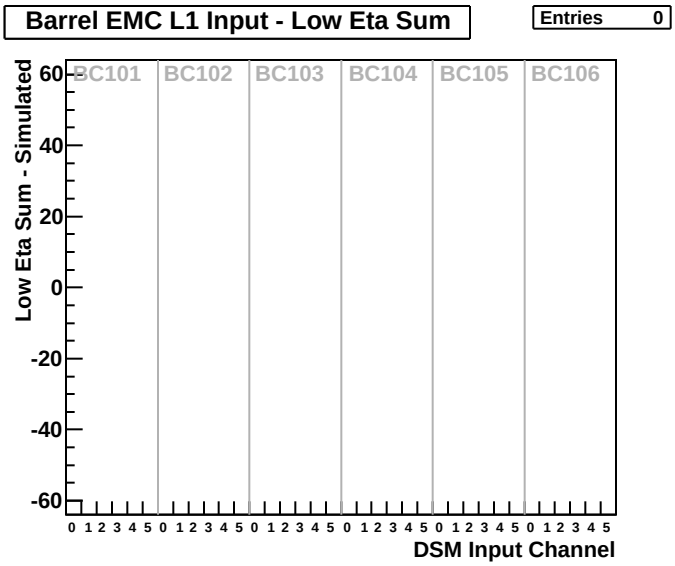
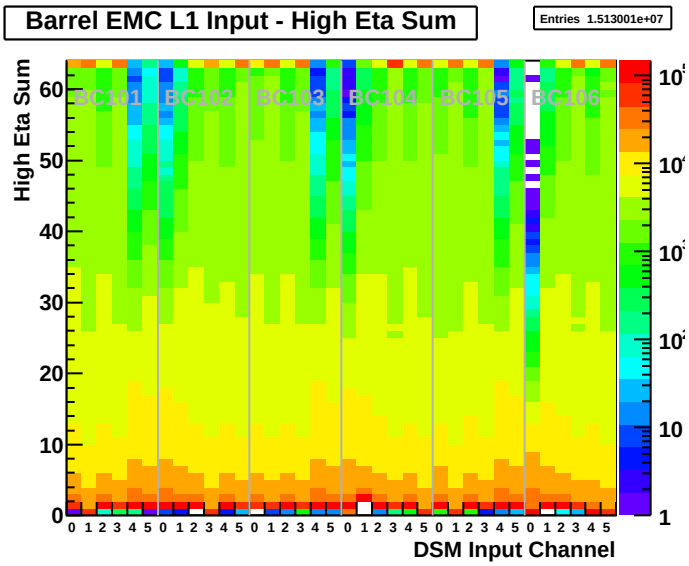
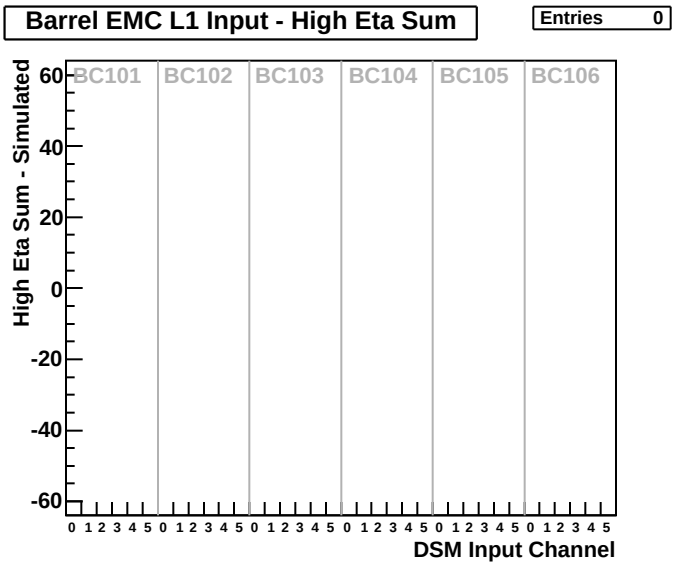
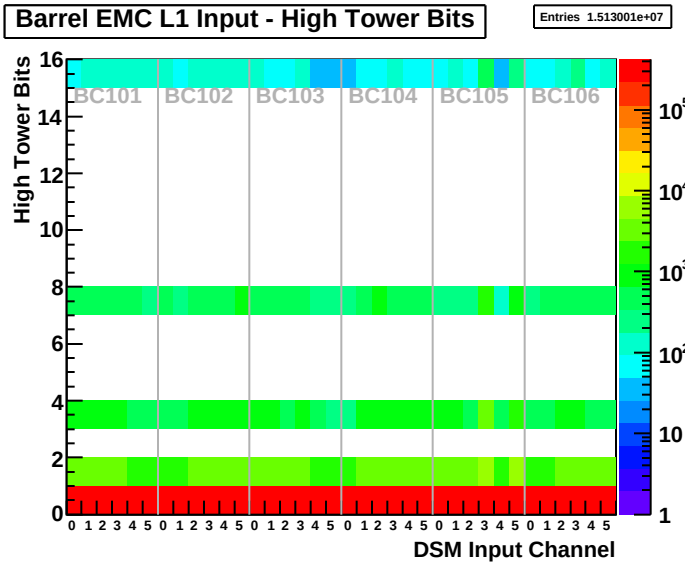
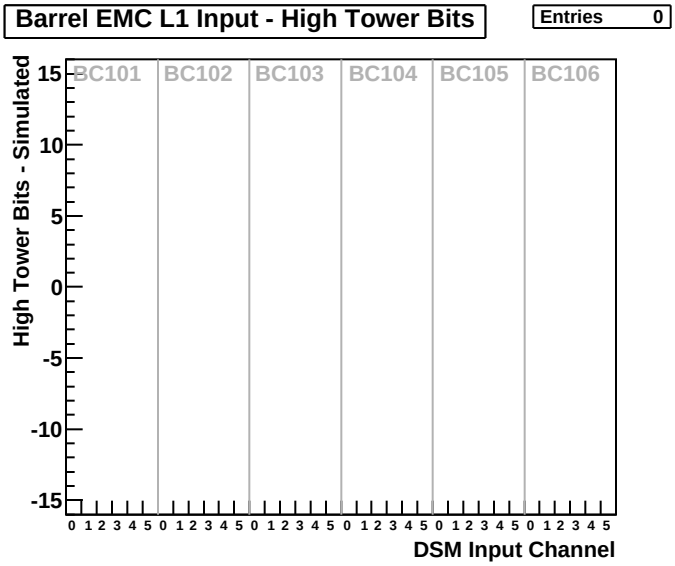

Barrel EMC L1 Input - Low Eta Sum
Entries 1.513001e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

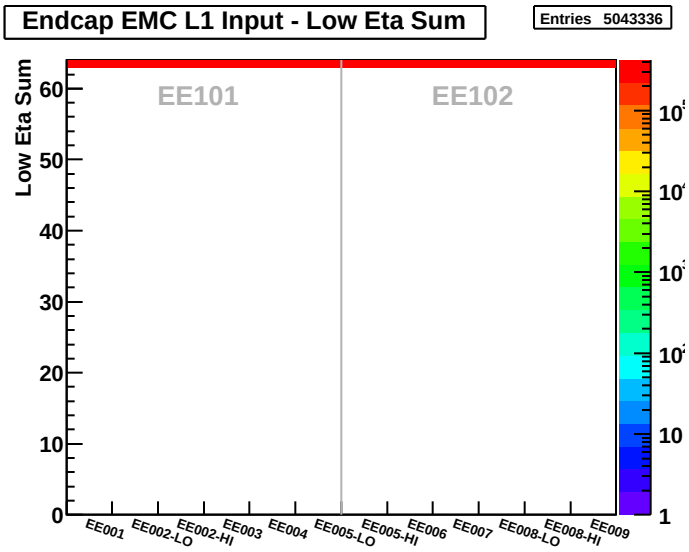

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

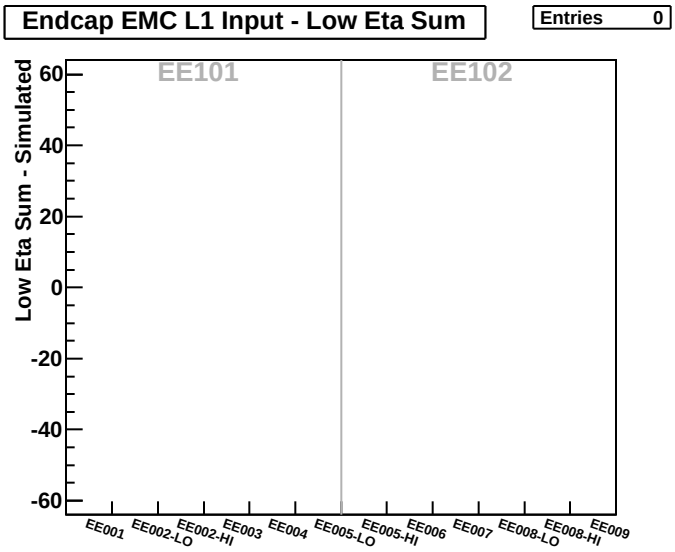

Barrel EMC L1 Input - High Eta Sum
Entries 1.513001e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

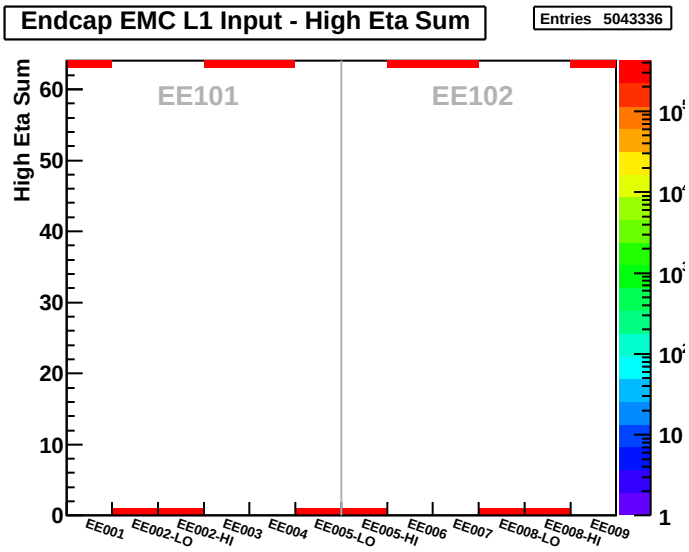

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

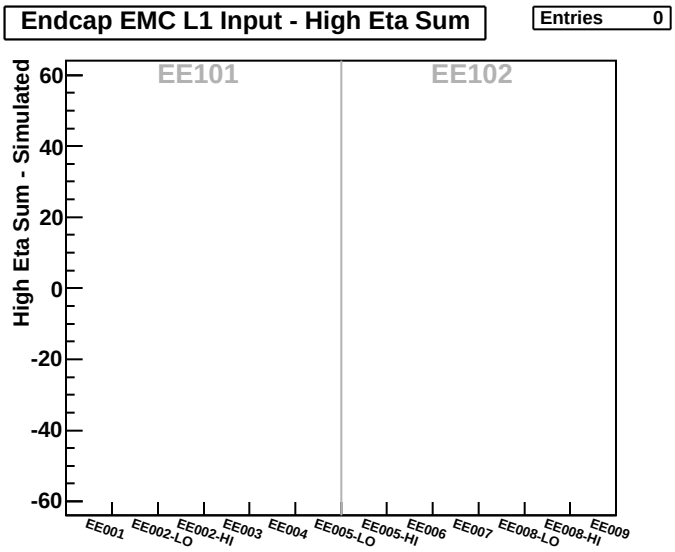

Barrel EMC L1 Input - High Tower Bits
Entries 1.513001e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

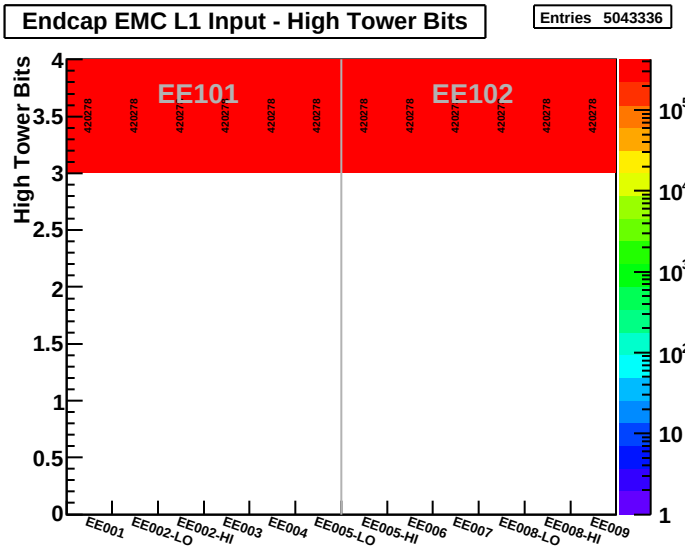

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

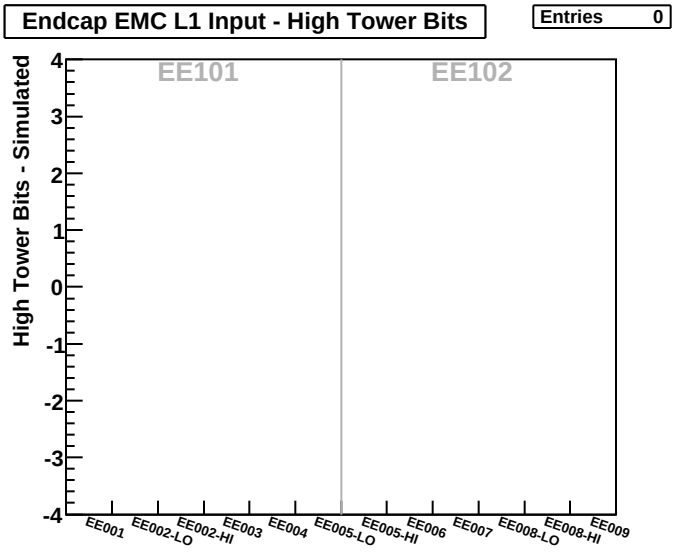

Endcap EMC L1 Input - Low Eta Sum
Entries 5043336
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

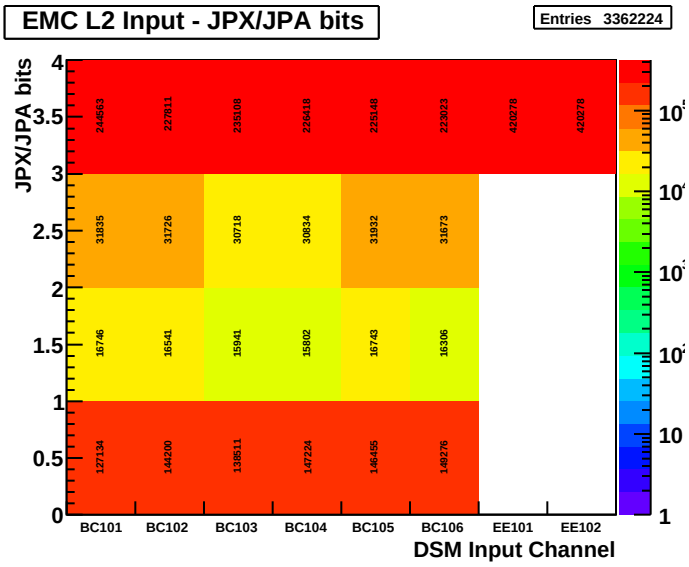

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

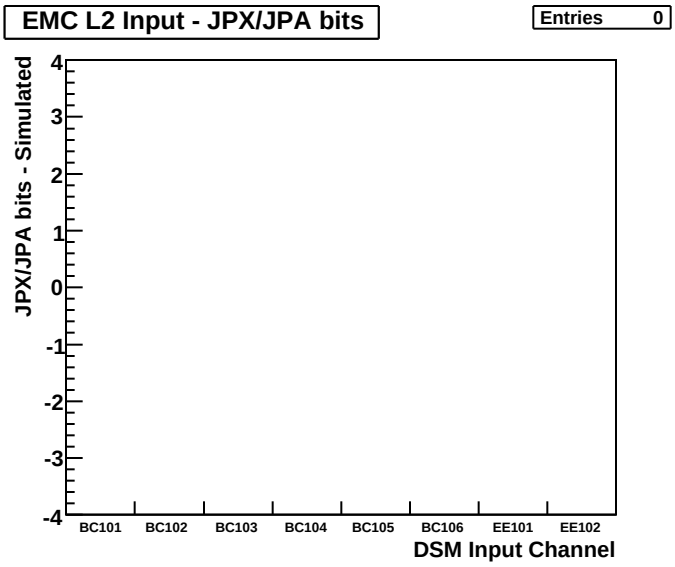

Endcap EMC L1 Input - High Eta Sum
Entries 5043336
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

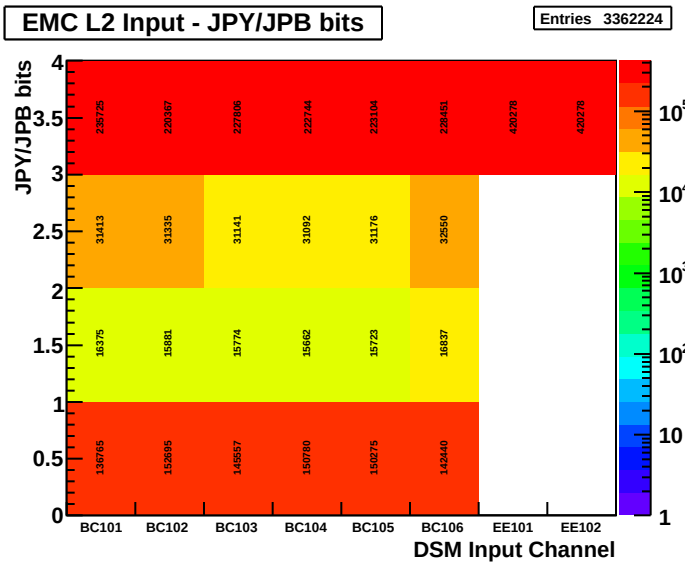

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

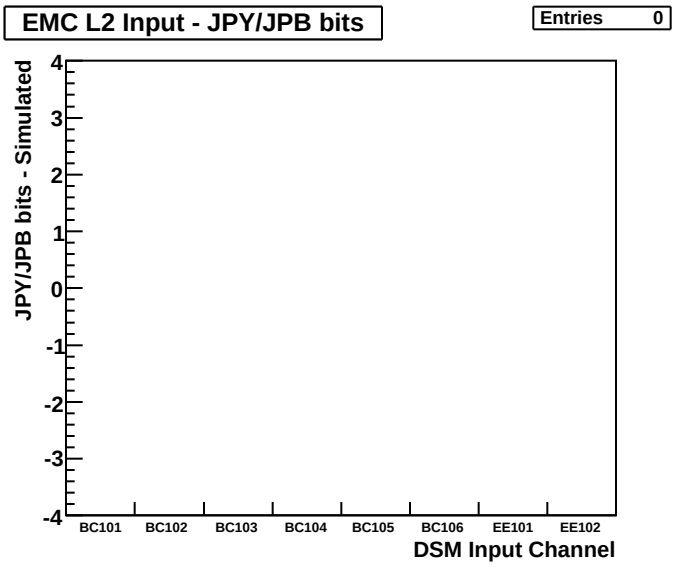

Endcap EMC L1 Input - High Tower Bits
Entries 5043336
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

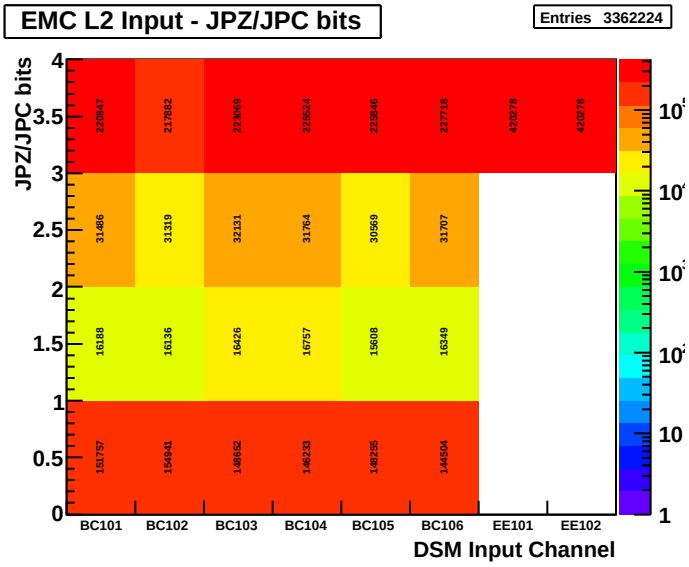

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

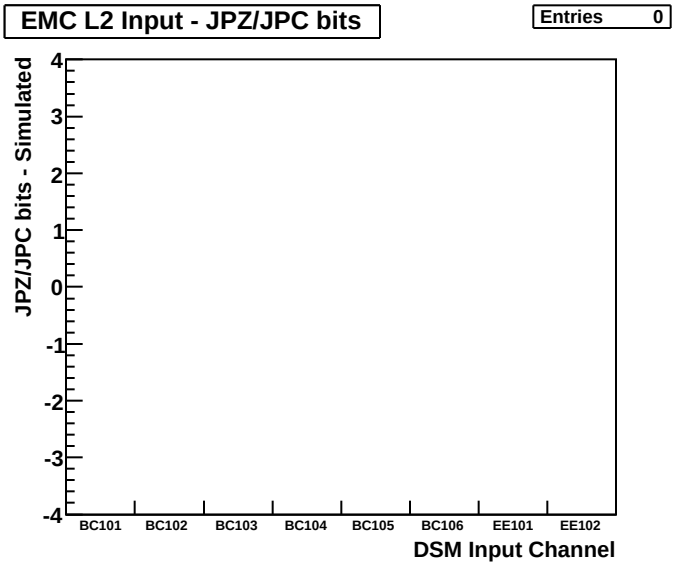

EMC L2 Input - JPX/JPA bits
Entries 3362224
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
244563 227811 235108 226418 225148 223023 420278 420278
31835 31726 30718 30834 31932 31673
16746 16541 15941 15802 16743 16306
127134 144200 138511 147224 146495 149276

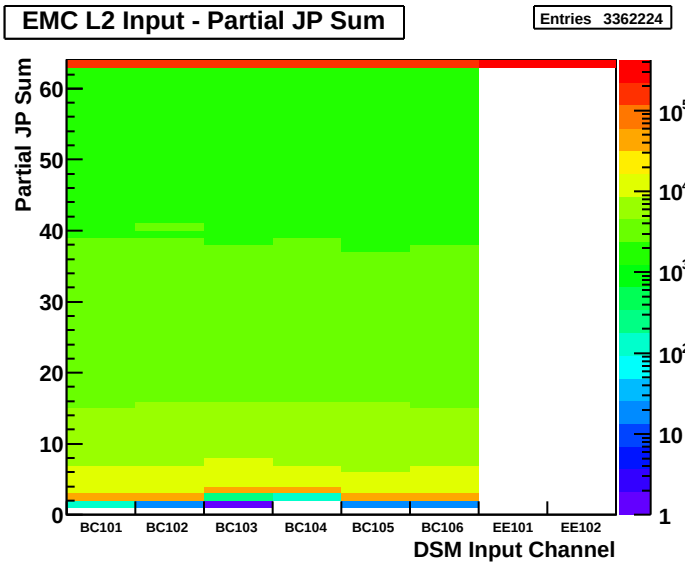

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

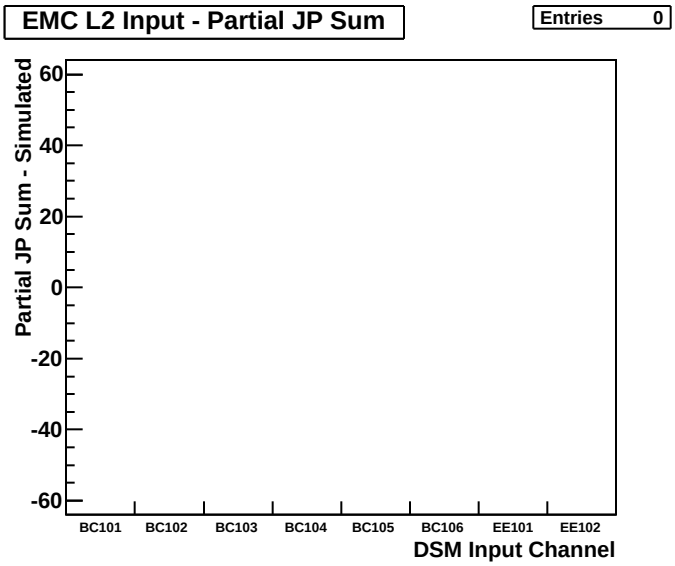

EMC L2 Input - JPY/JPB bits
Entries 3362224
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
235725 220367 227806 222744 223104 228451 420278 420278
31413 31335 31141 31092 31176 32550
16375 15881 15774 15662 15723 16837
136765 153695 145557 150780 150275 142440

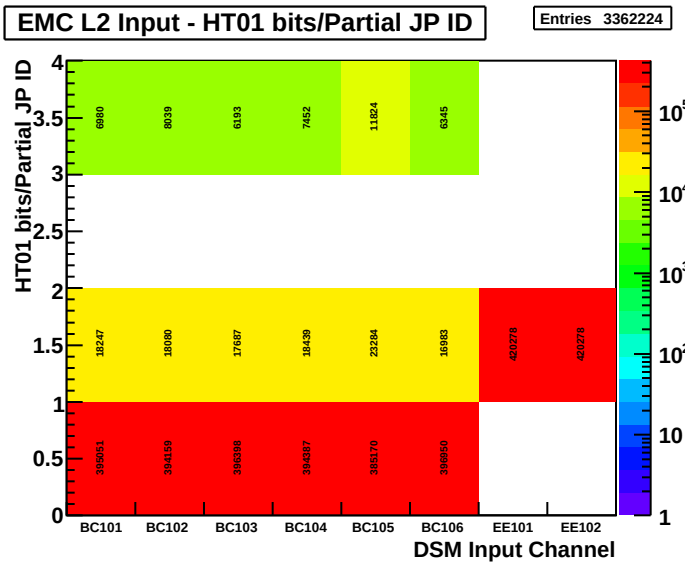

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

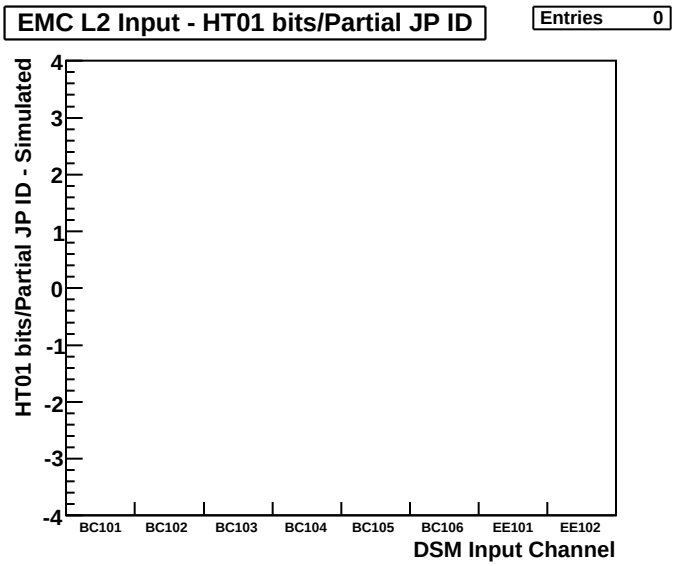

EMC L2 Input - JPZ/JPC bits
Entries 3362224
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
220847 217682 223069 225524 223846 227718 420278 420278
31486 31319 32131 31764 30569 31707
16188 16136 16426 16757 15608 16349
151757 154941 148652 146233 148255 144504

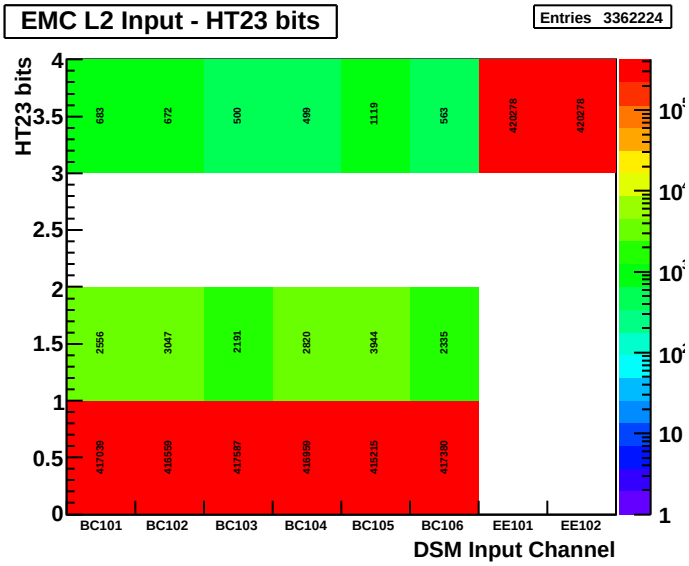

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

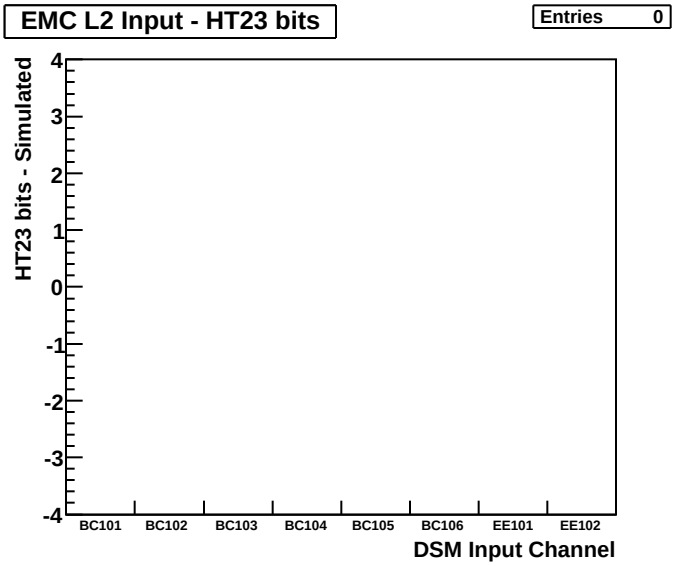

EMC L2 Input - Partial JP Sum
Entries 3362224
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

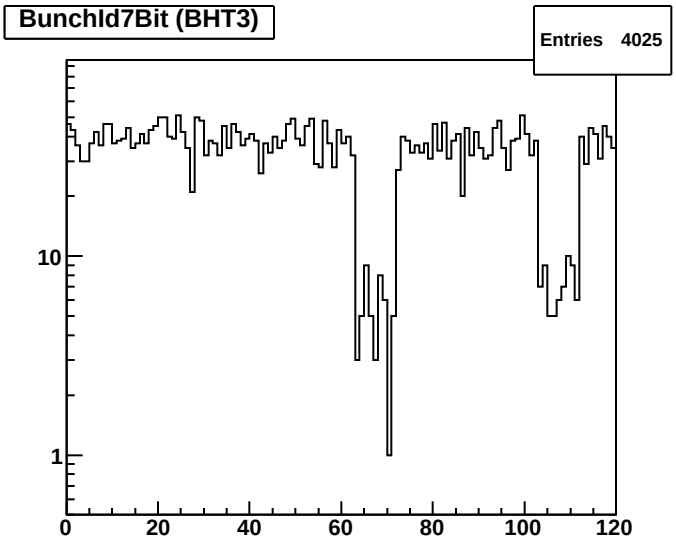

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

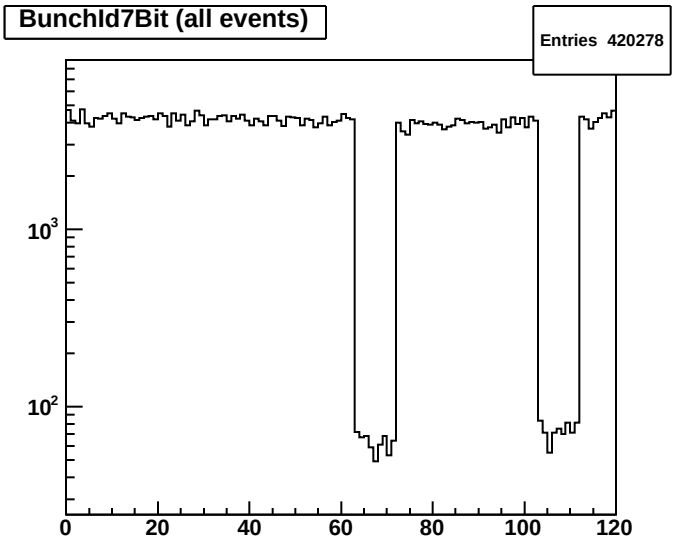

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3362224
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

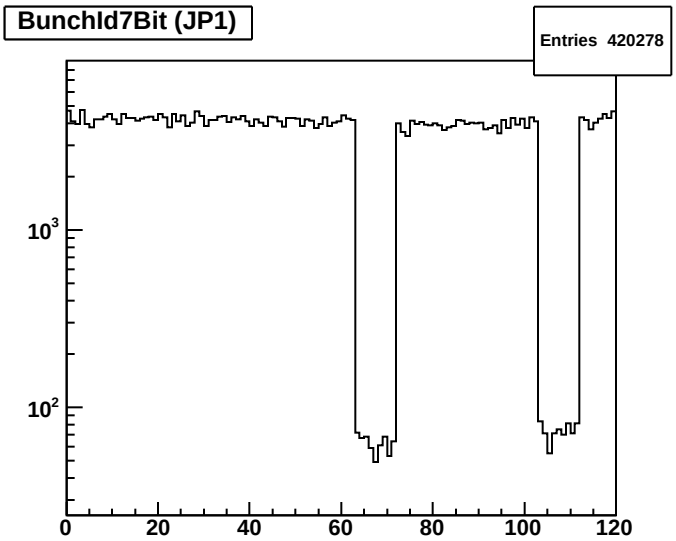

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

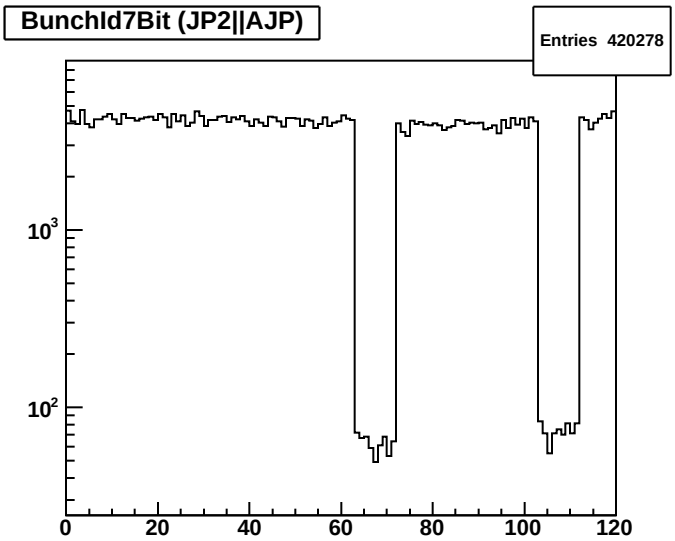

EMC L2 Input - HT23 bits
Entries 3362224
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

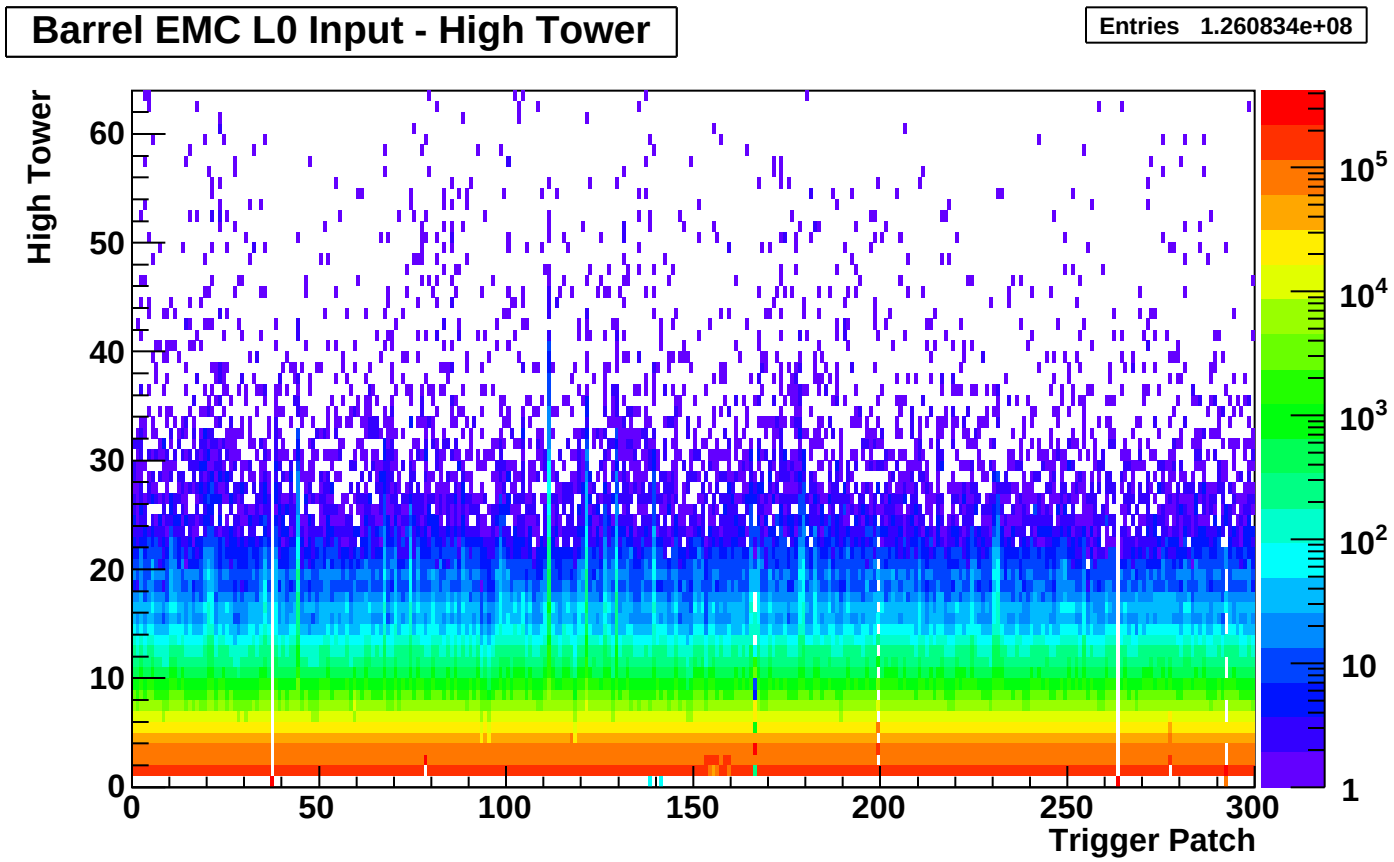

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

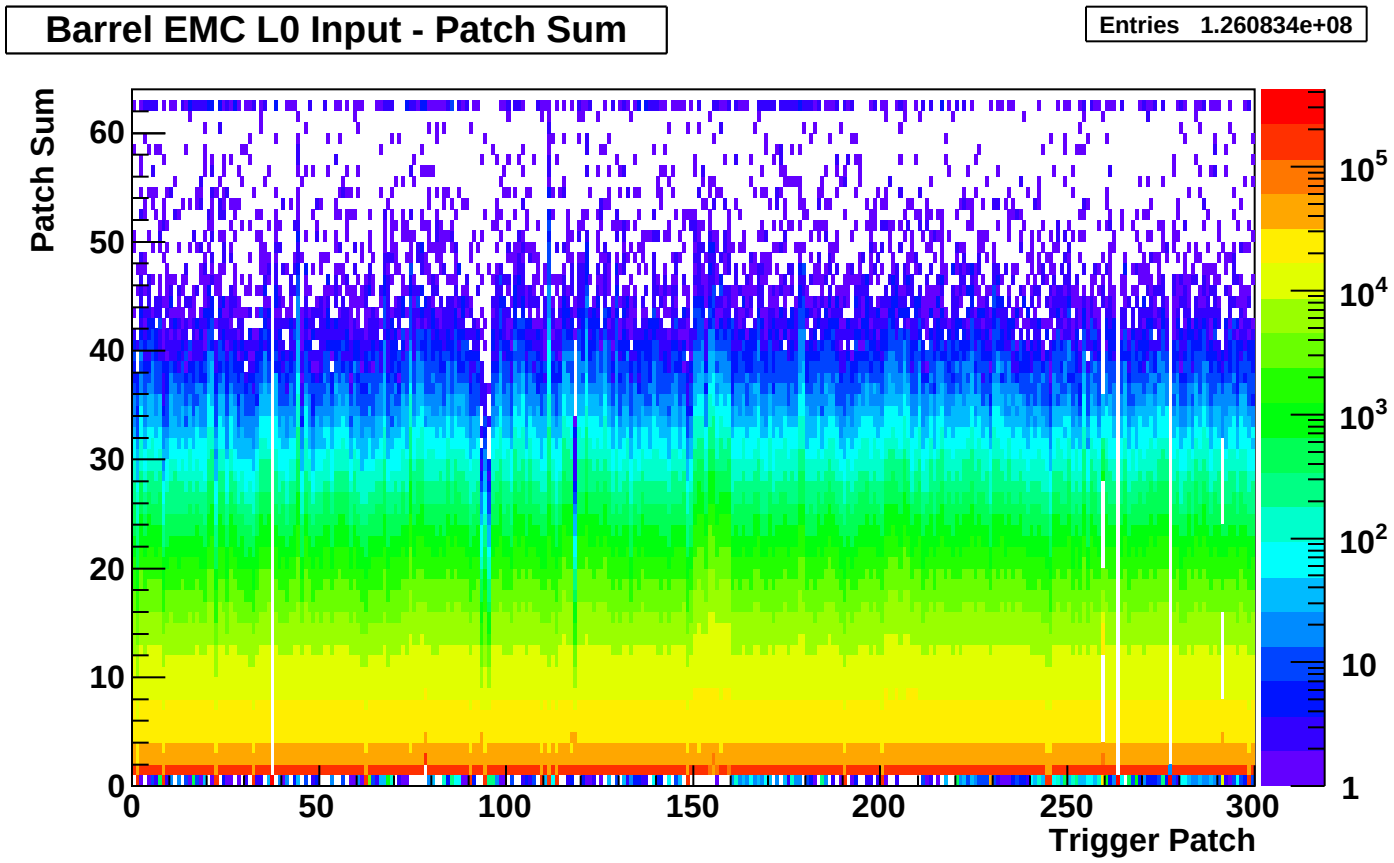

BunchId7Bit (BHT3)
Entries 4025
10
1
0
20
40
60
80
100
120

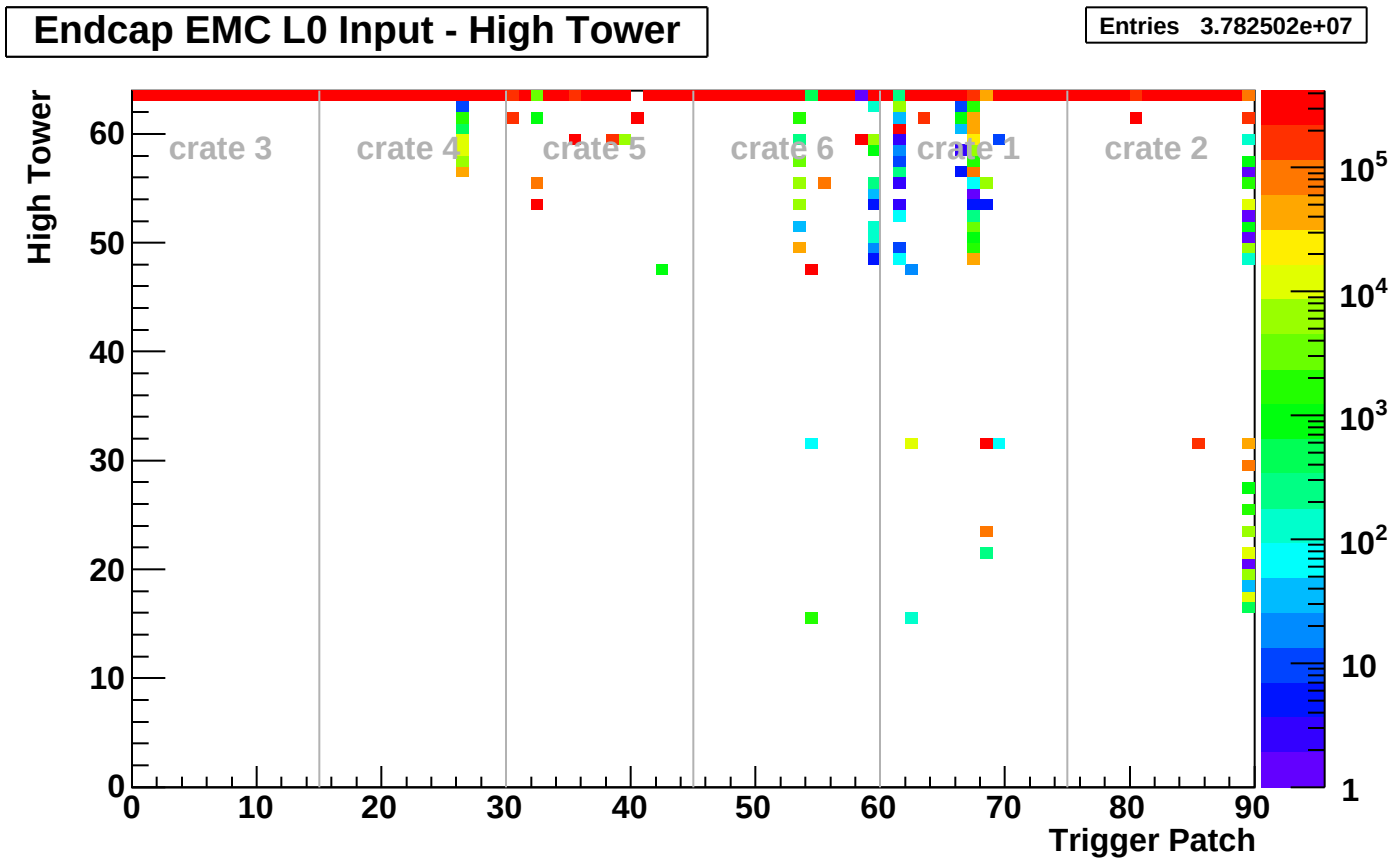

BunchId7Bit (all events)
Entries 420278
10^3
10^2
0
20
40
60
80
100
120

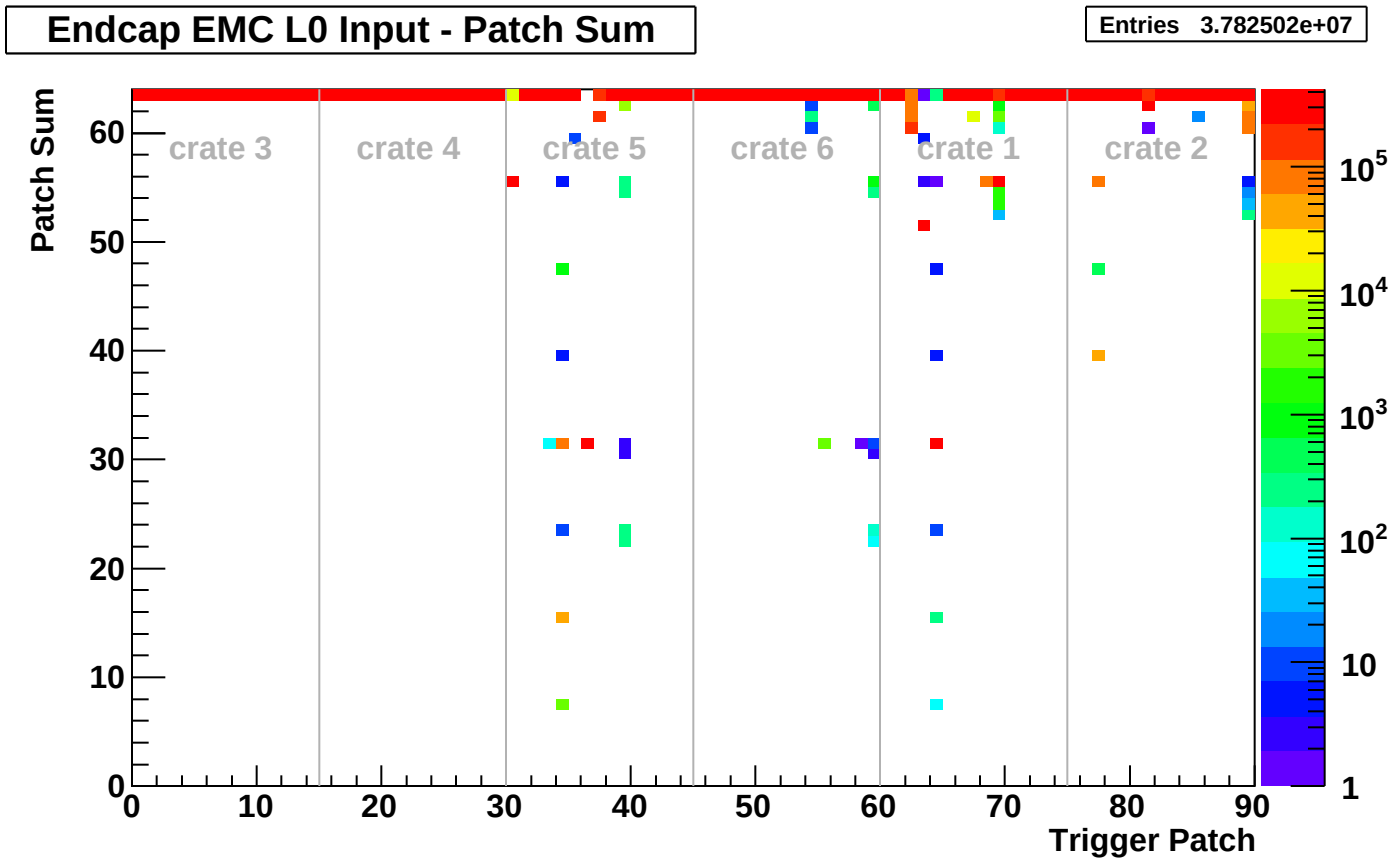

BunchId7Bit (JP1)
Entries 420278
10^3
10^2
0
20
40
60
80
100
120

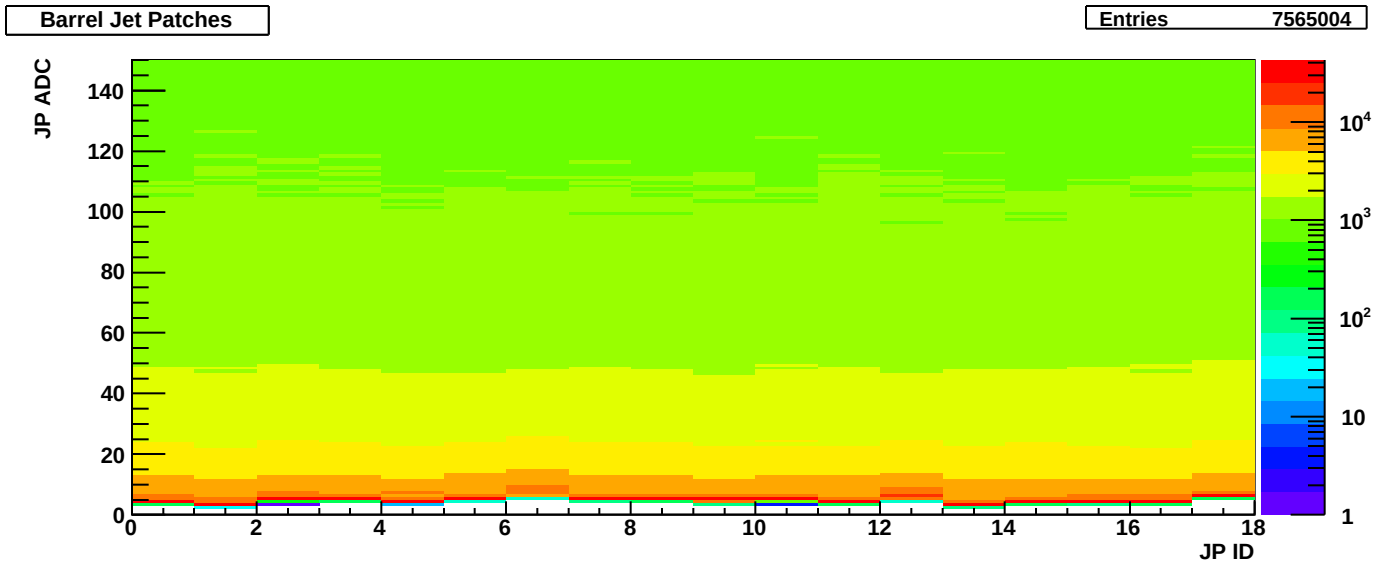

BunchId7Bit (JP2||AJP)
Entries 420278
10^3
10^2
0
20
40
60
80
100
120

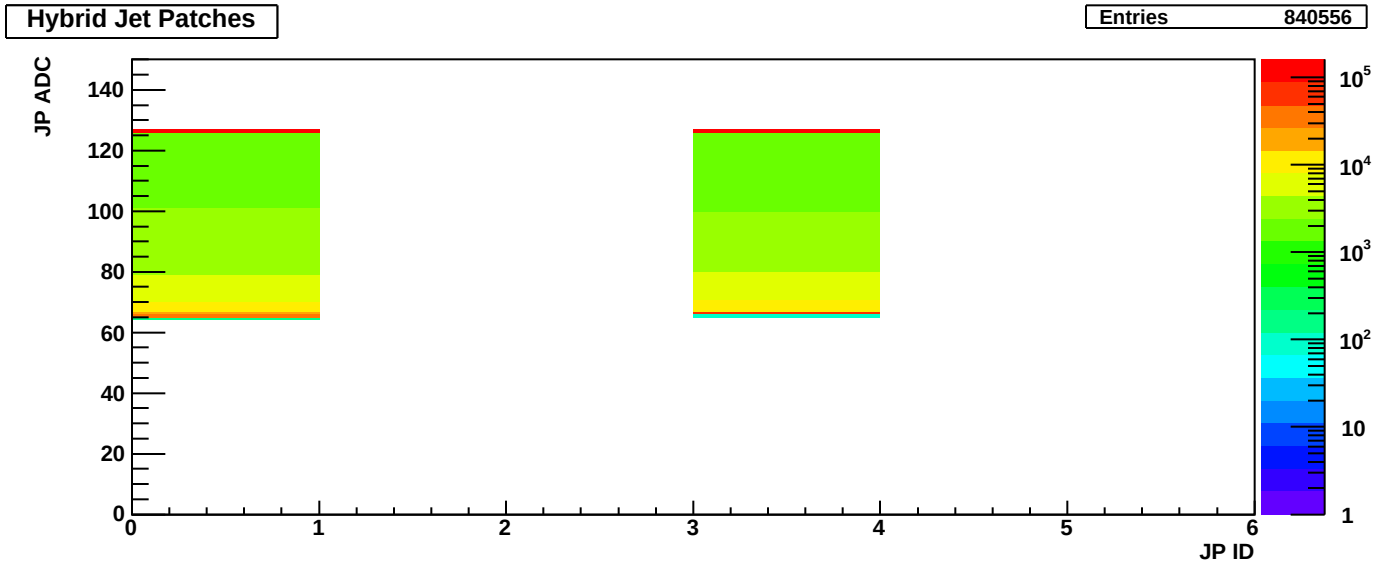

Barrel EMC L0 Input - High Tower
Entries 1.260834e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

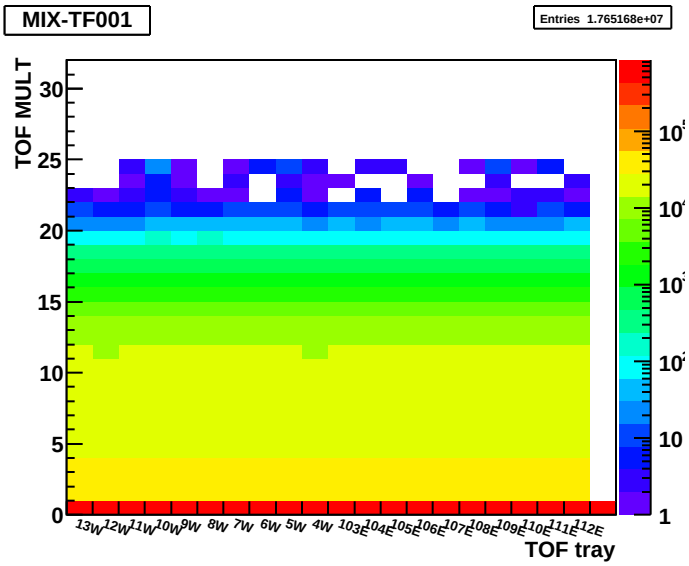

Barrel EMC L0 Input - Patch Sum
Entries 1.260834e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

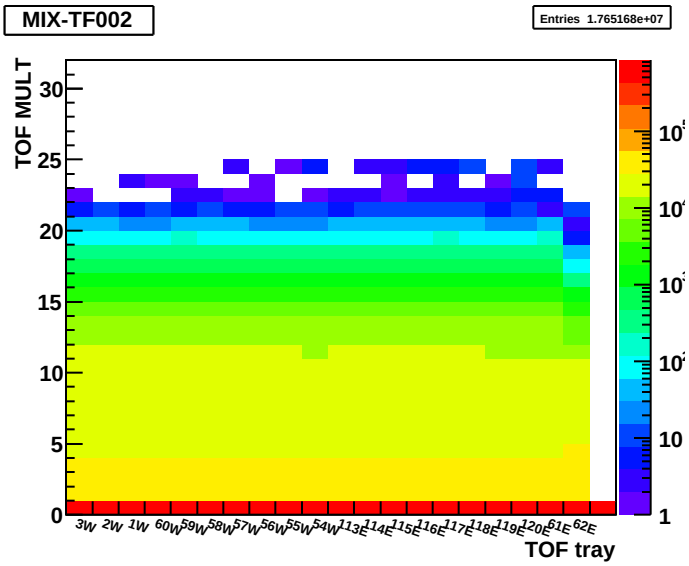

Endcap EMC L0 Input - High Tower
Entries 3.782502e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

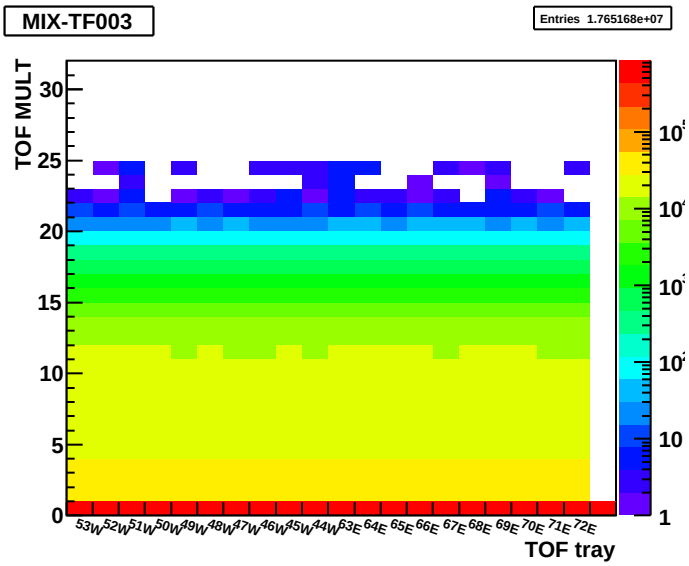

Endcap EMC L0 Input - Patch Sum
Entries 3.782502e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

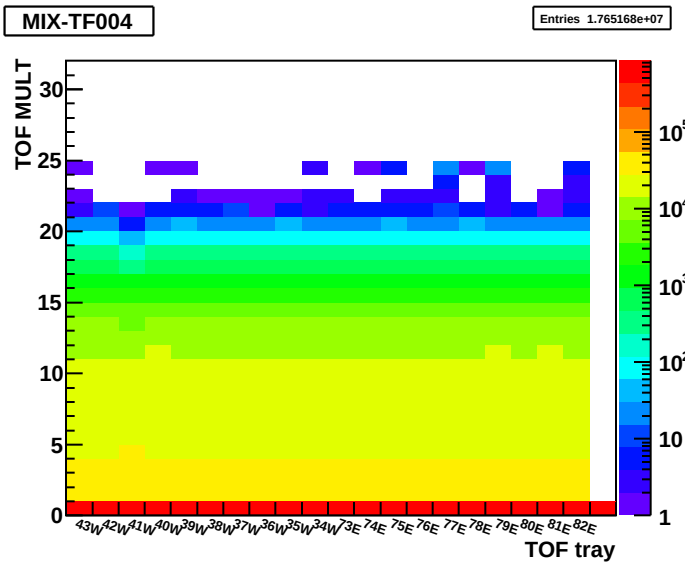

Barrel Jet Patches
Entries 7565004
JP ADC
JP ID

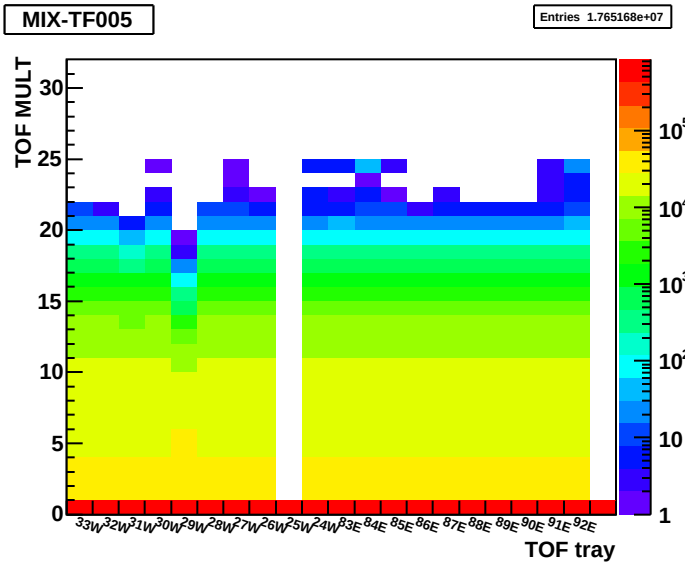

Hybrid Jet Patches
Entries 840556
JP ADC
JP ID

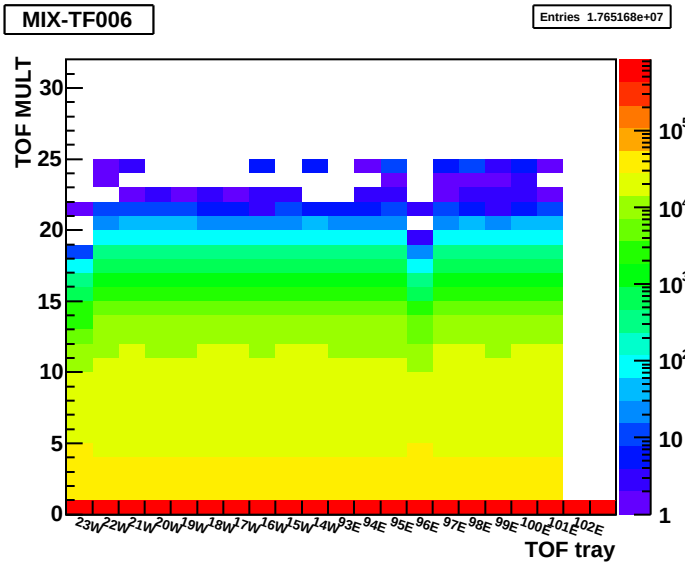

MIX-TF001
Entries 1.765168e+07
TOF MULT
TOF tray

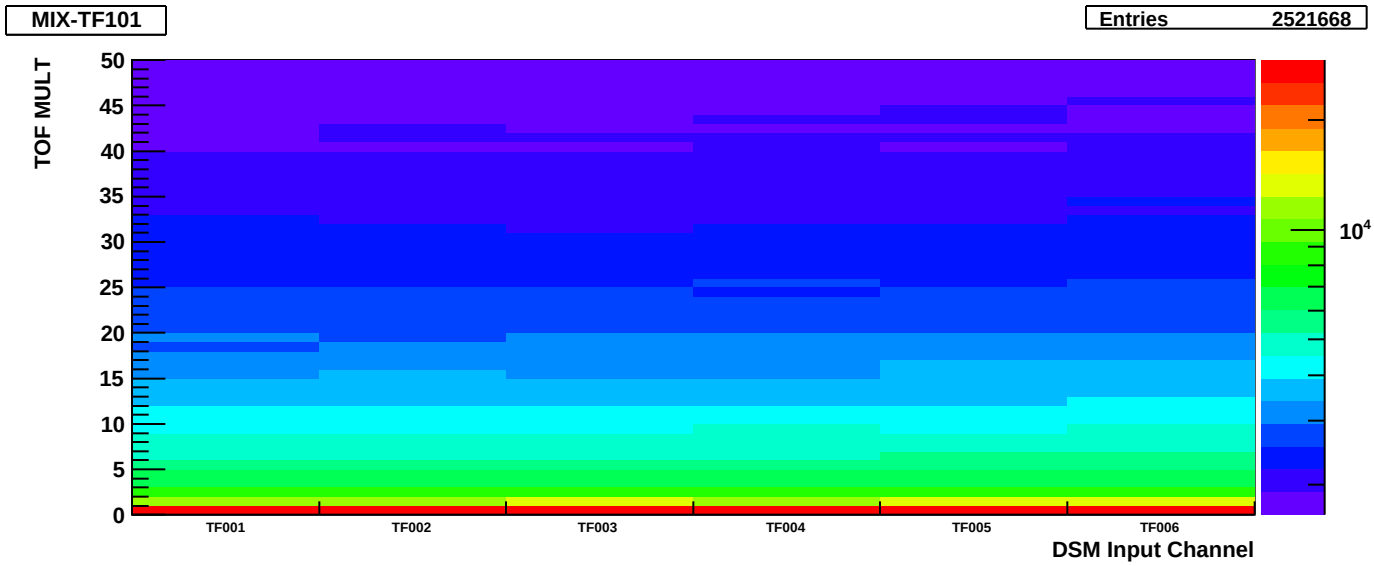

MIX-TF002
Entries 1.765168e+07
TOF MULT
TOF tray

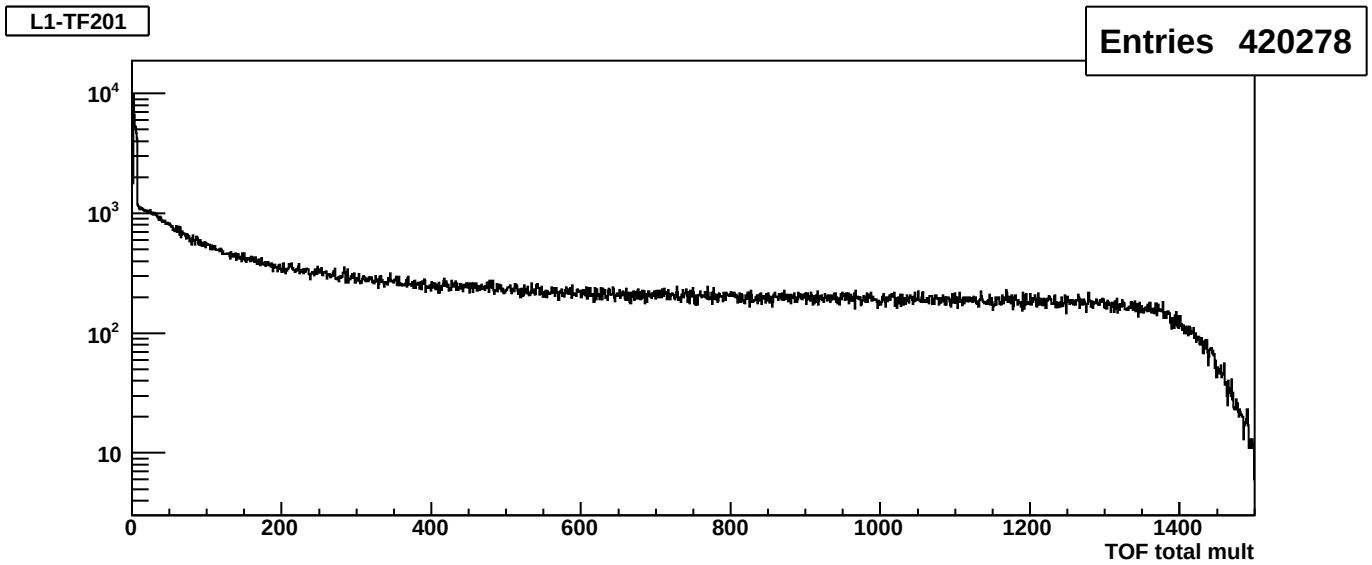

MIX-TF003
Entries 1.765168e+07
TOF MULT
TOF tray

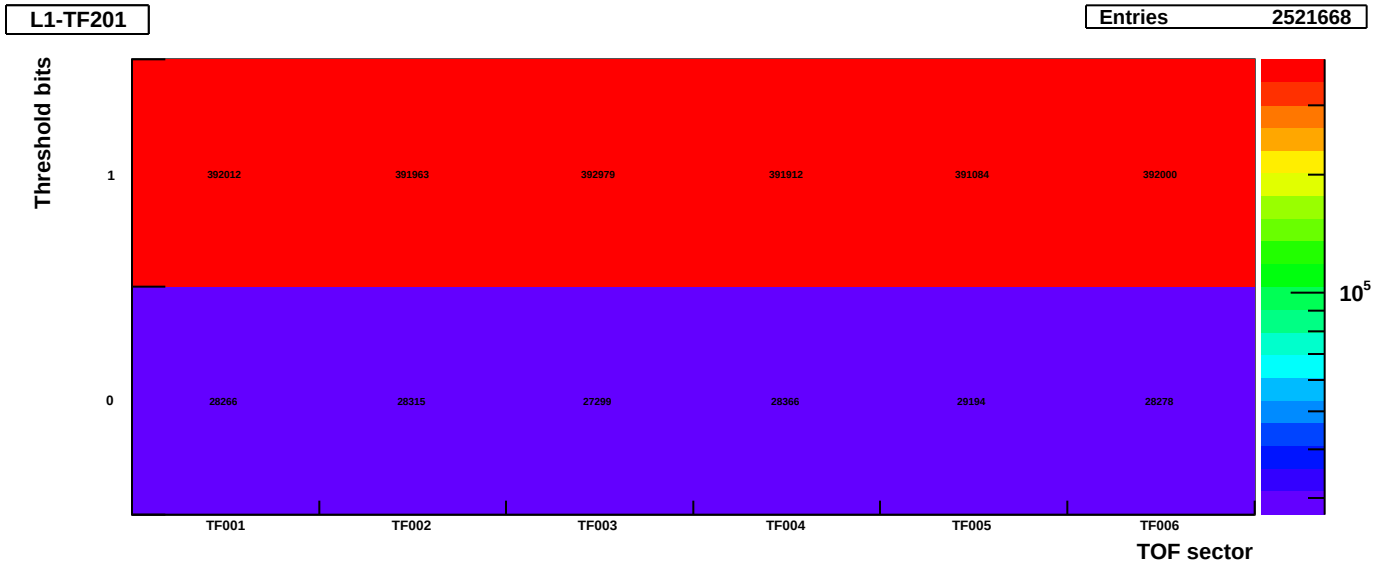

MIX-TF004
Entries 1.765168e+07
TOF MULT
TOF tray

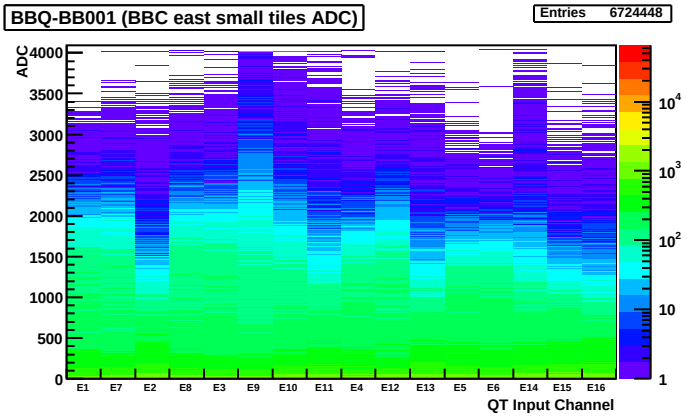

MIX-TF005
Entries 1.765168e+07
TOF MULT
TOF tray

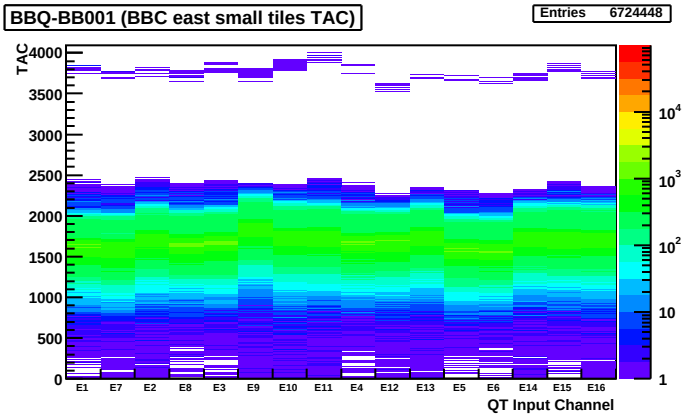

MIX-TF006
Entries 1.765168e+07
TOF MULT
TOF tray

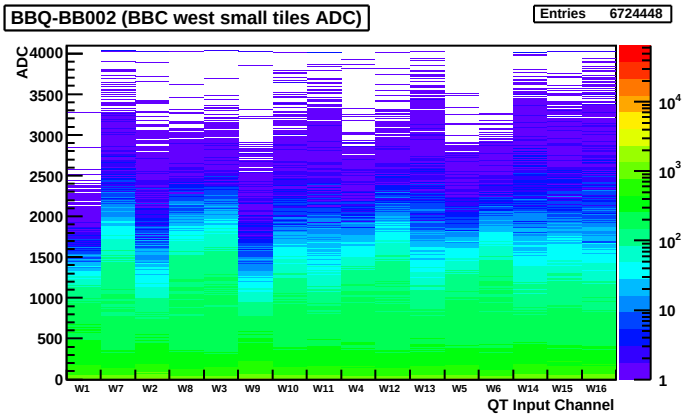

MIX-TF101
Entries 2521668
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

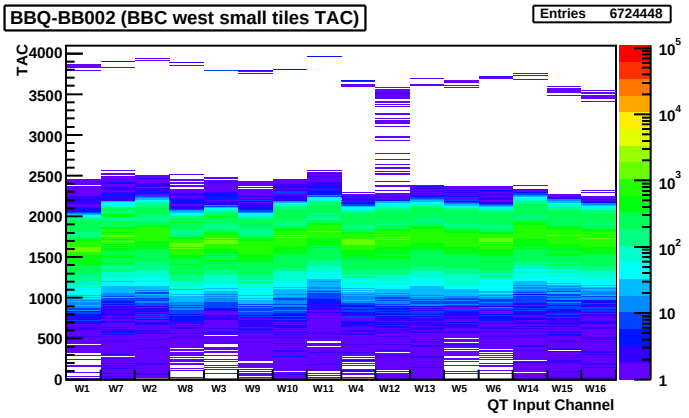

L1-TF201
Entries 420278
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

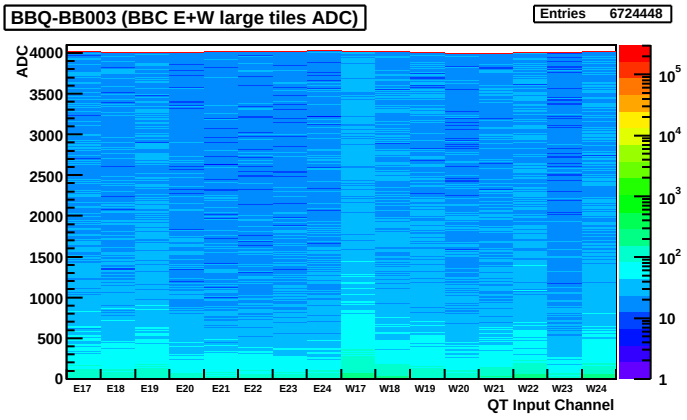

L1-TF201
Entries 2521668
Threshold bits
1
0
392012
391963
392979
391912
391084
392000
28266
28315
27299
28366
29194
28278
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

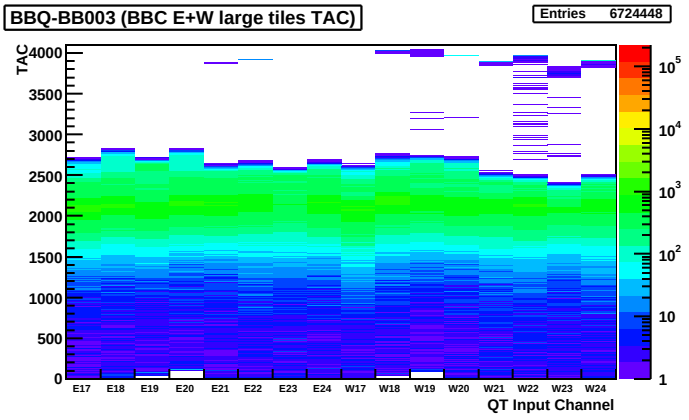

BBQ-BB001 (BBC east small tiles ADC)
Entries 6724448
ADC
QT Input Channel

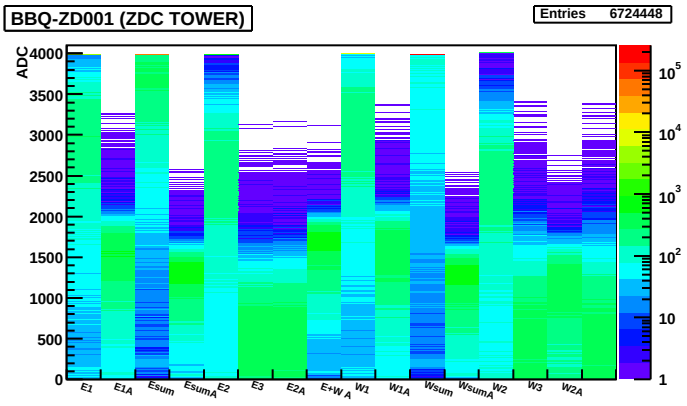

BBQ-BB001 (BBC east small tiles TAC)
Entries 6724448
TAC
QT Input Channel

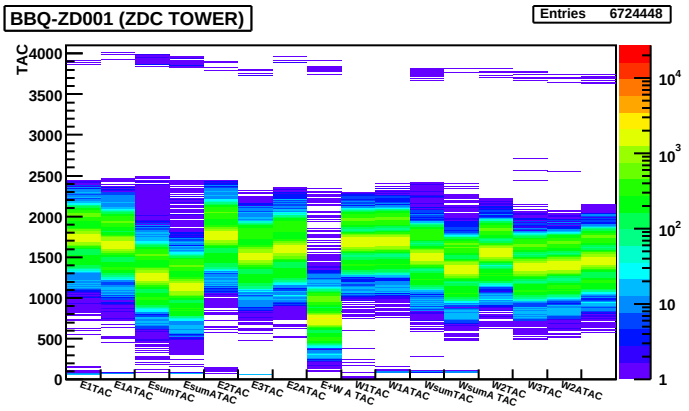

BBQ-BB002 (BBC west small tiles ADC)
Entries 6724448
ADC
QT Input Channel

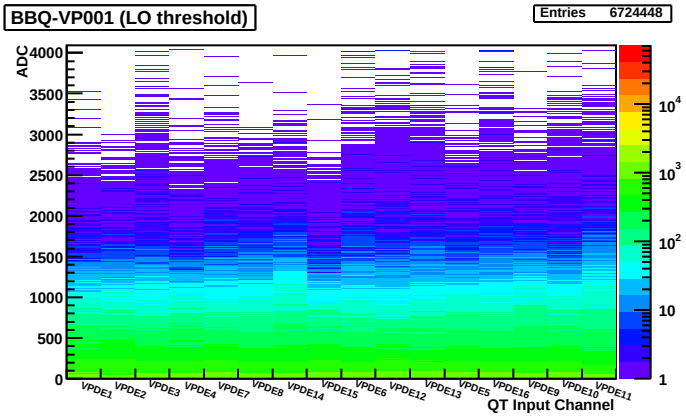

BBQ-BB002 (BBC west small tiles TAC)
Entries 6724448
TAC
QT Input Channel

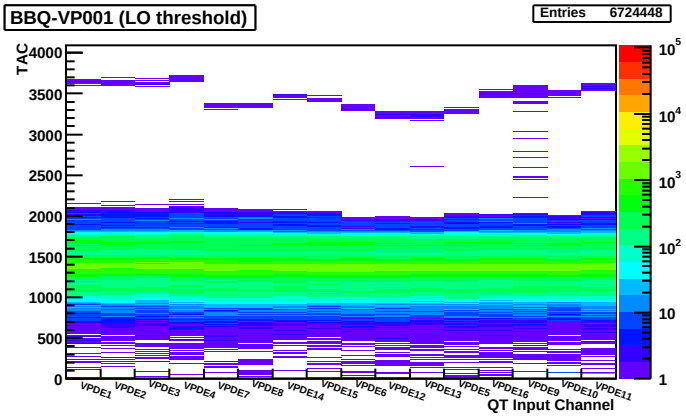

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 6724448
ADC
QT Input Channel

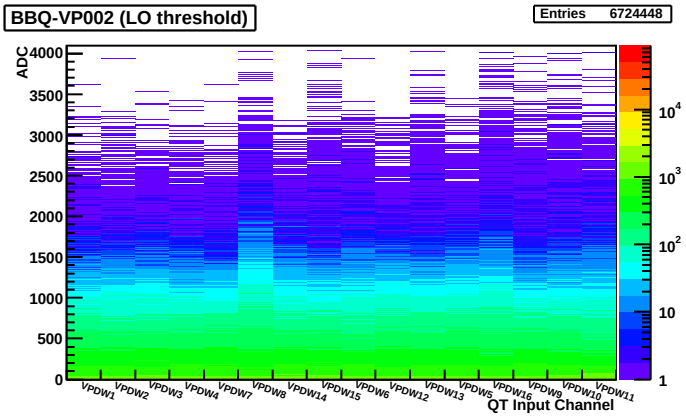

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 6724448
TAC
QT Input Channel

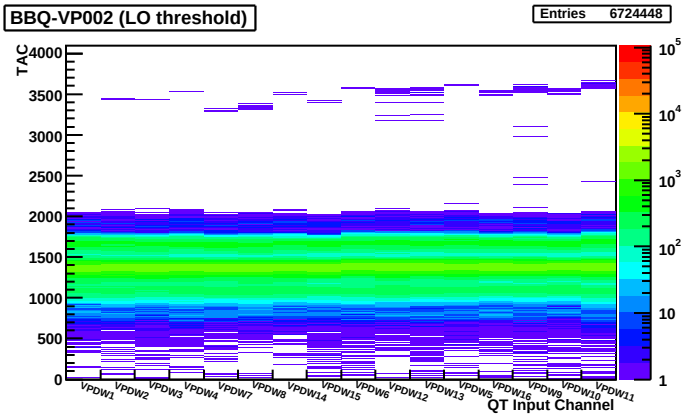

BBQ-ZD001 (ZDC TOWER)
Entries 6724448
ADC

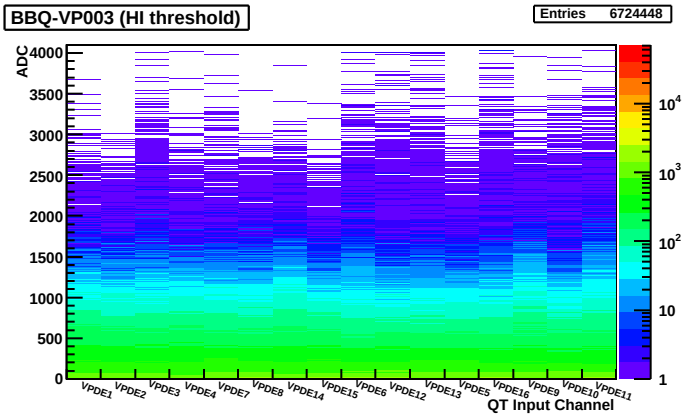

BBQ-ZD001 (ZDC TOWER)
Entries 6724448
TAC

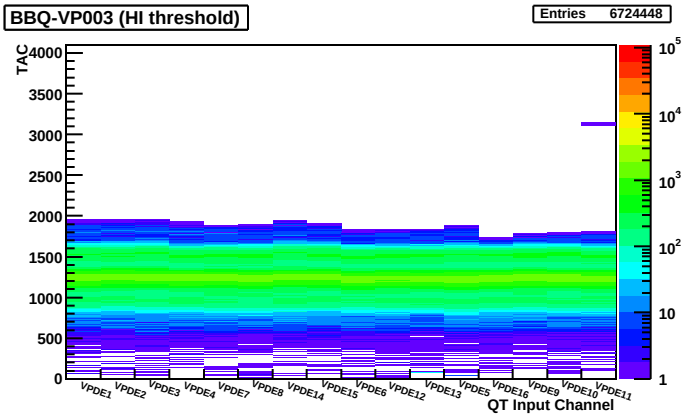

BBQ-VP001 (LO threshold)
Entries 6724448
ADC
QT Input Channel

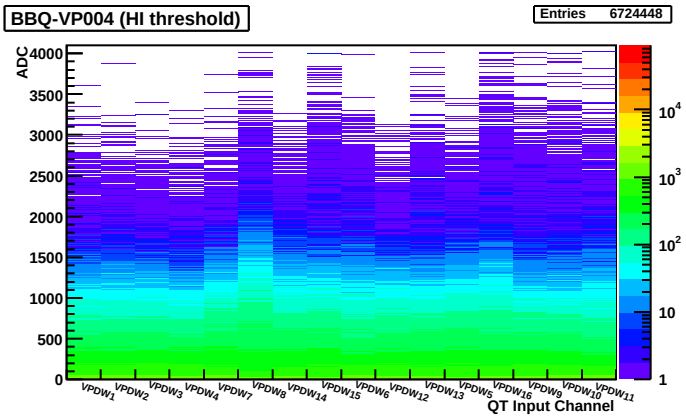

BBQ-VP001 (LO threshold)
Entries 6724448
TAC
QT Input Channel

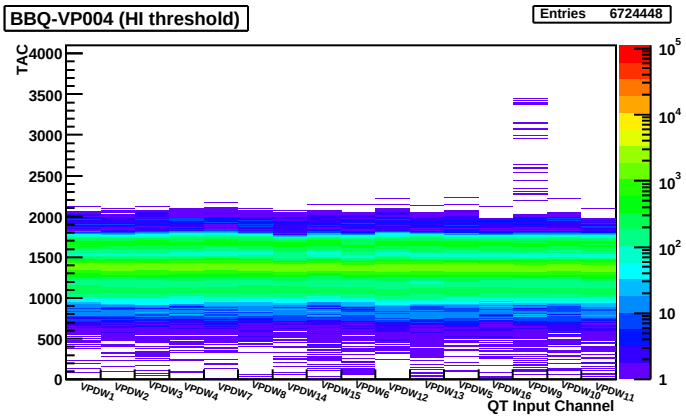

BBQ-VP002 (LO threshold)
Entries 6724448
ADC
QT Input Channel

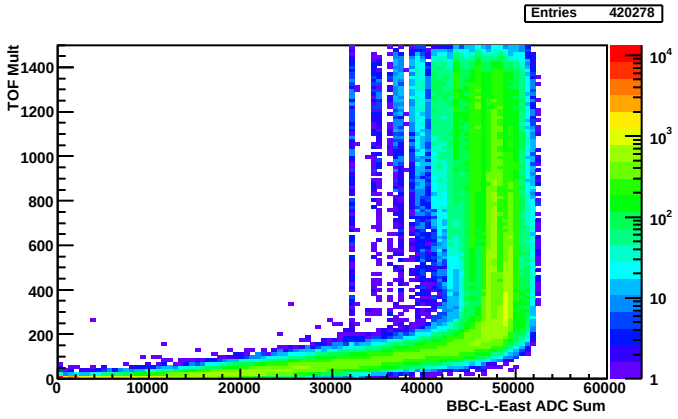

BBQ-VP002 (LO threshold)
Entries 6724448
TAC
QT Input Channel

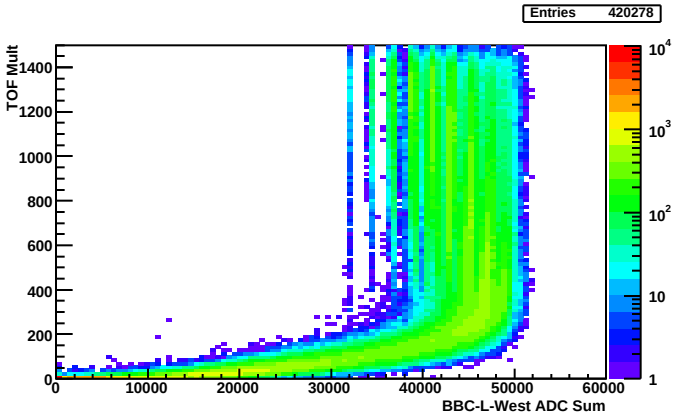

BBQ-VP003 (HI threshold)
Entries 6724448
ADC
QT Input Channel

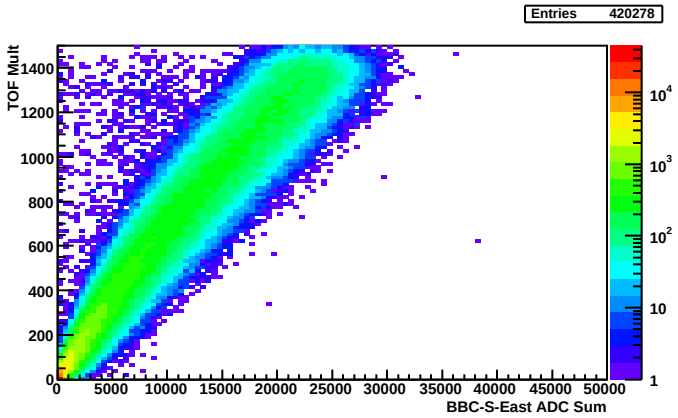

BBQ-VP003 (HI threshold)
Entries 6724448
TAC
QT Input Channel

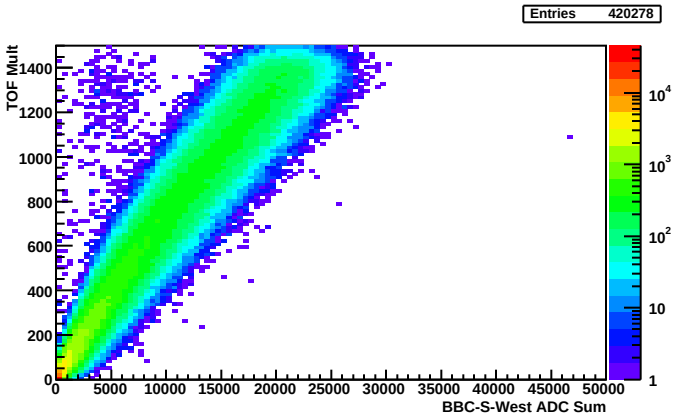

BBQ-VP004 (HI threshold)
Entries 6724448
ADC
QT Input Channel

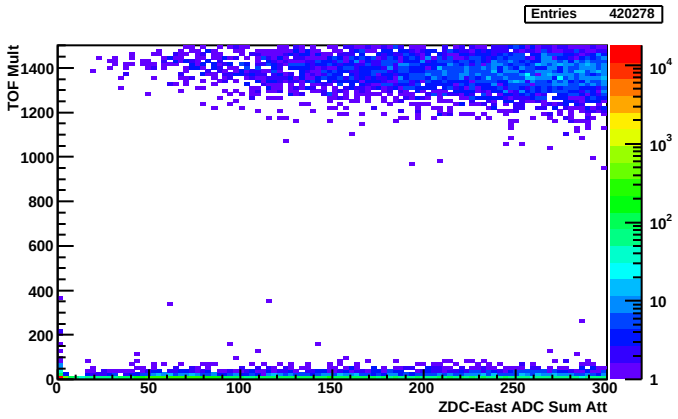

BBQ-VP004 (HI threshold)
Entries 6724448
TAC
QT Input Channel

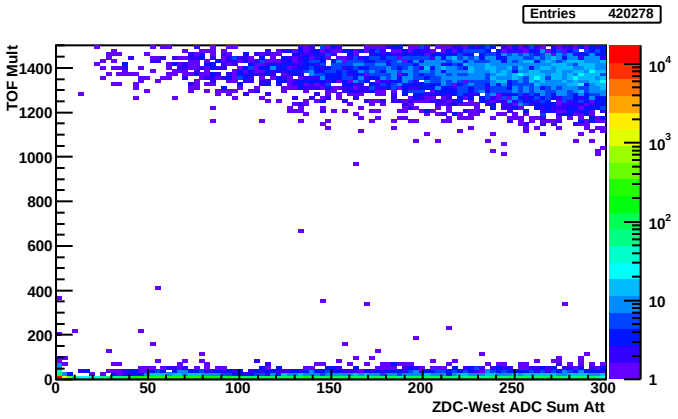

Entries 420278
TOF Mult
BBC-L-East ADC Sum

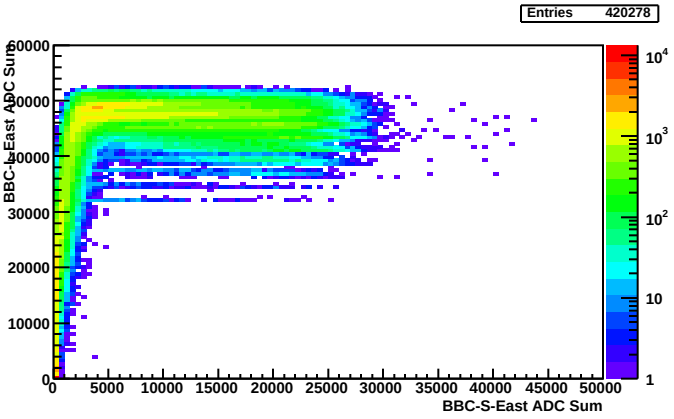

Entries 420278
TOF Mult
BBC-L-West ADC Sum

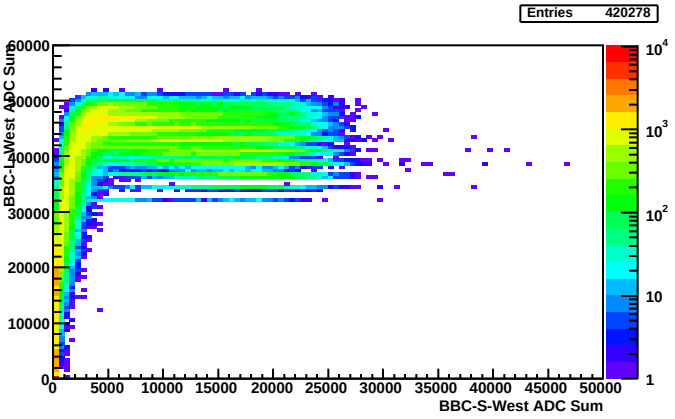

Entries 420278
TOF Mult
BBC-S-East ADC Sum

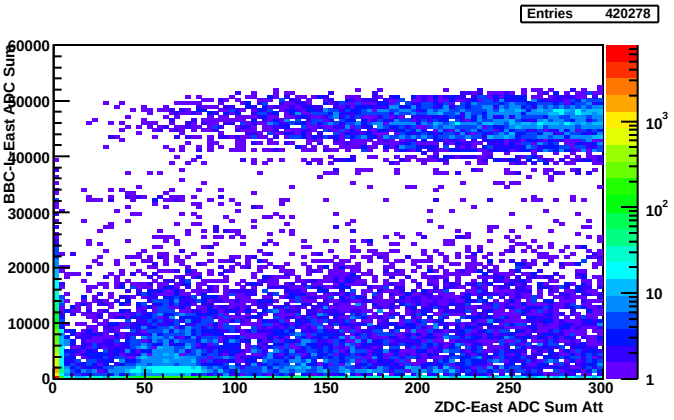

Entries 420278
TOF Mult
BBC-S-West ADC Sum

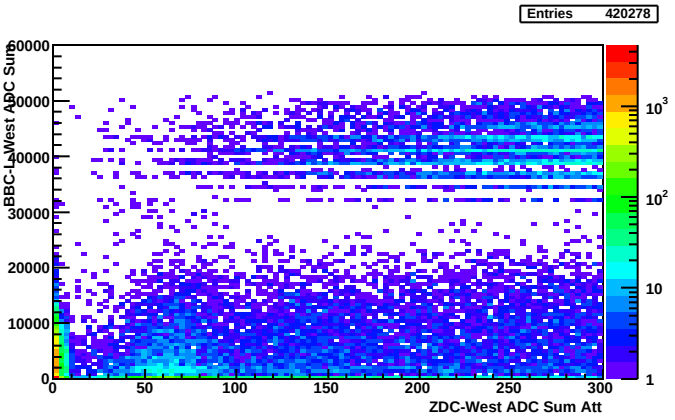

Entries 420278
TOF Mult
ZDC-East ADC Sum Att


Entries 420278
TOF Mult
ZDC-West ADC Sum Att


Entries 420278
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 420278
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 420278
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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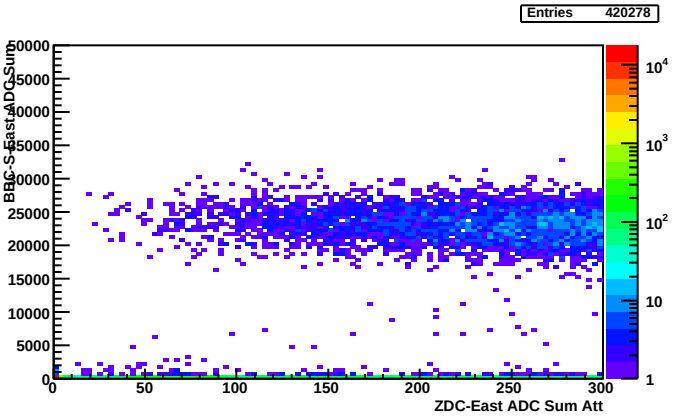
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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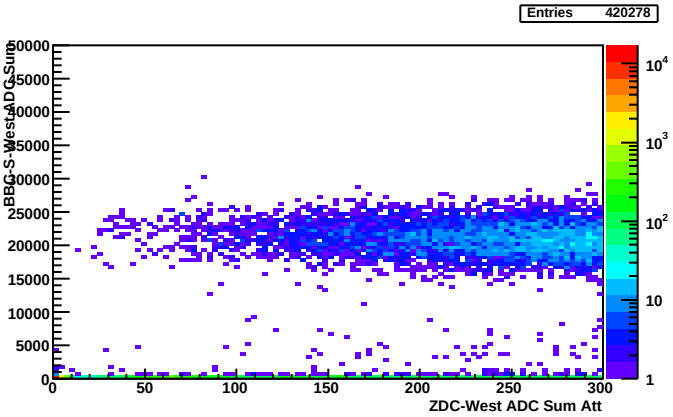
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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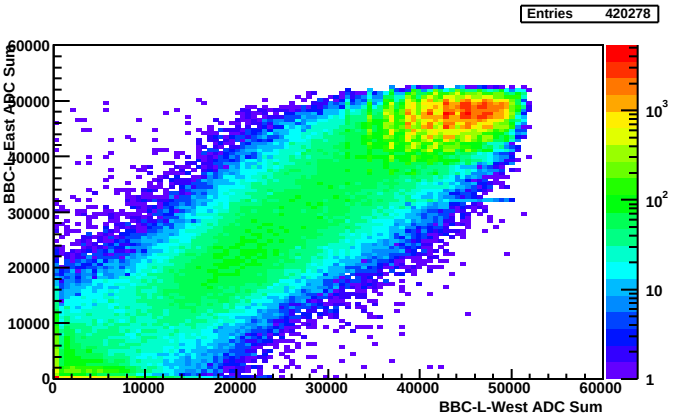
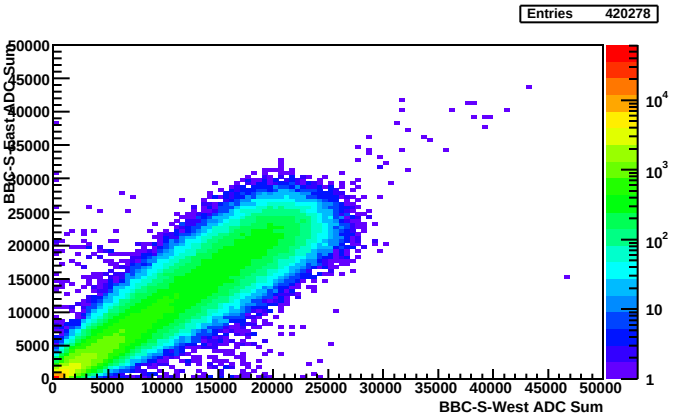
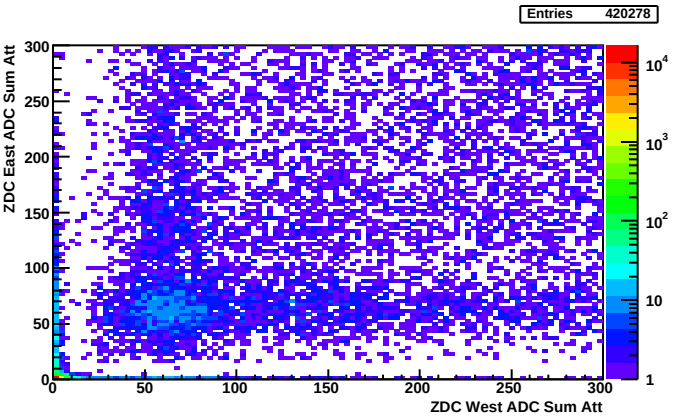
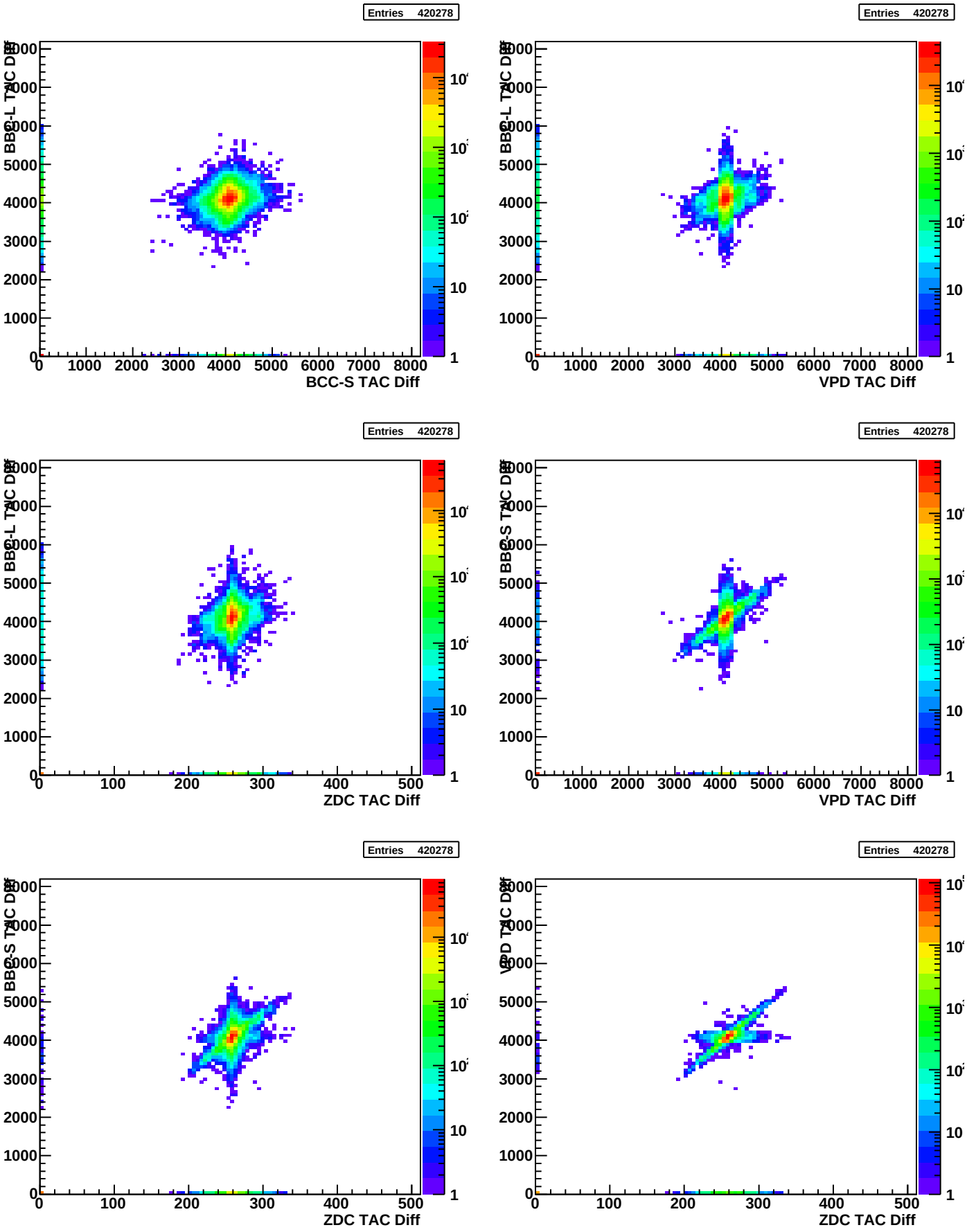
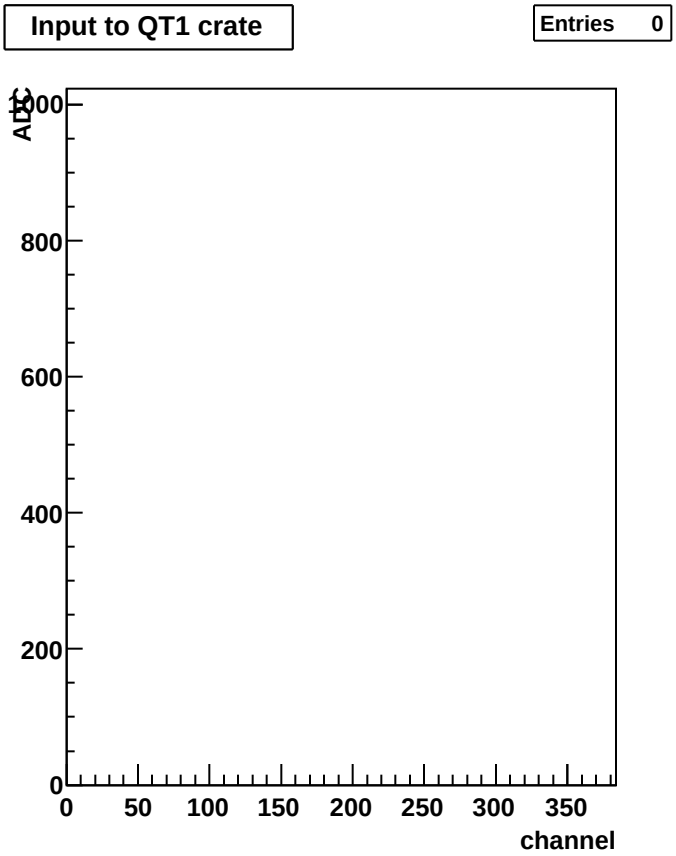
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

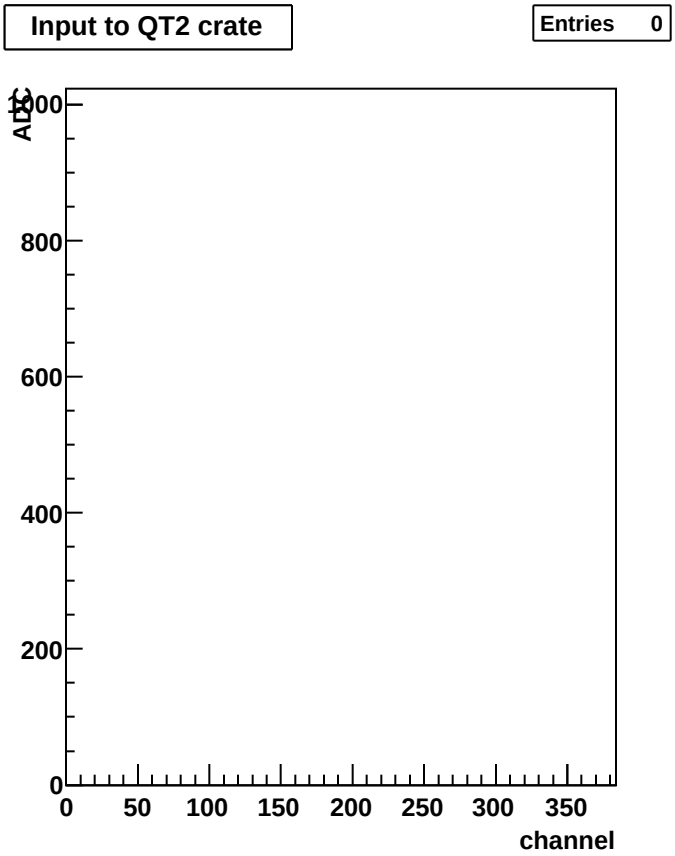

Entries 420278
BBC-L-East ADC Sum
BBC-L-West ADC Sum

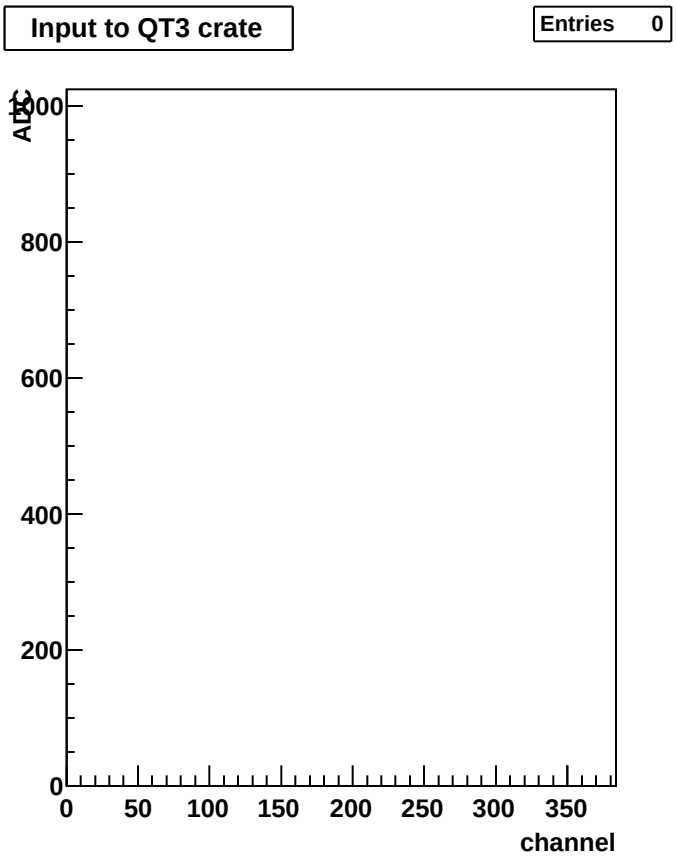

Entries 420278
BBC-S-East ADC Sum
BBC-S-West ADC Sum

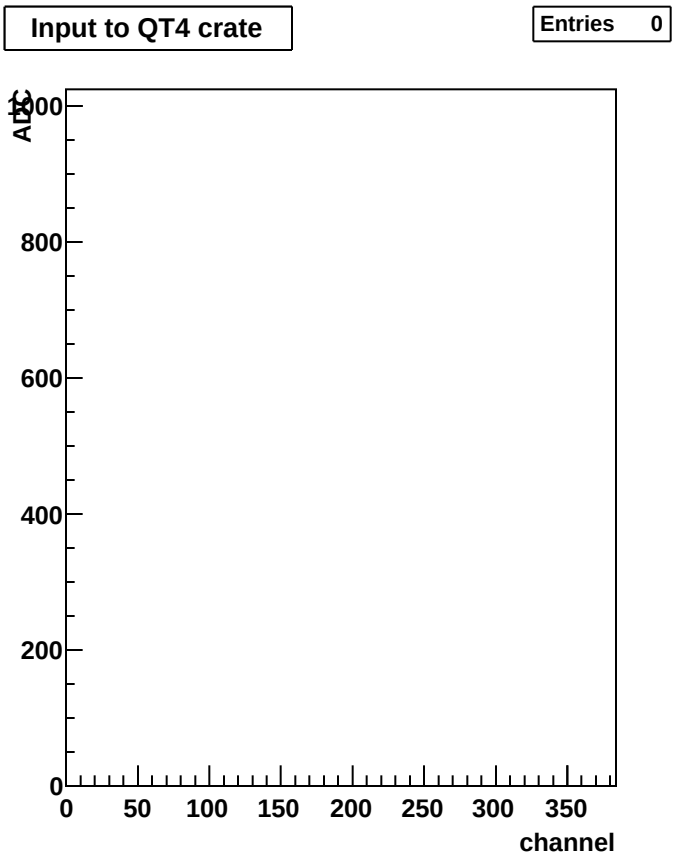

Entries 420278
ZDC East ADC Sum Att
ZDC West ADC Sum Att

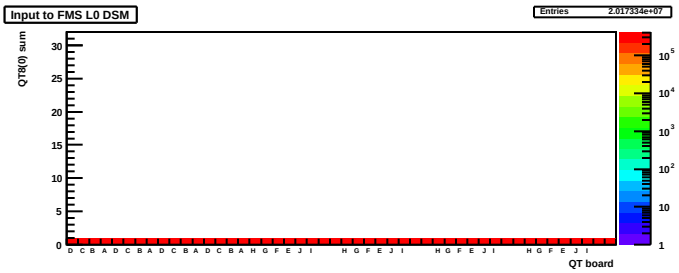

Entries 420278
BBC-L TAC Diff
BCC-S TAC Diff
Entries 420278
BBC-L TAC Diff
VPD TAC Diff
Entries 420278
BBC-L TAC Diff
ZDC TAC Diff
Entries 420278
BBC-S TAC Diff
VPD TAC Diff
Entries 420278
BBC-S TAC Diff
ZDC TAC Diff
Entries 420278
VPD TAC Diff
ZDC TAC Diff

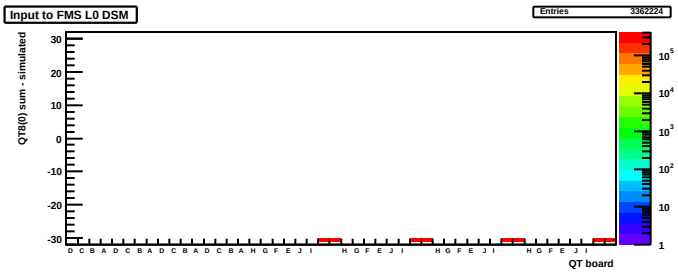

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

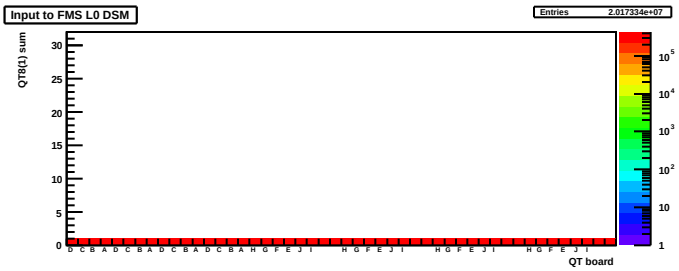

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

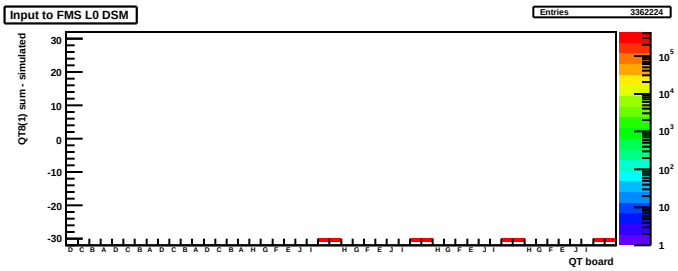

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

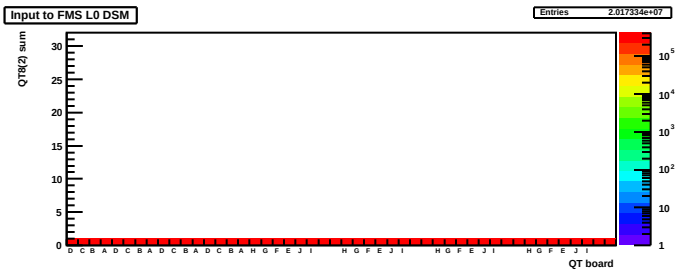

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

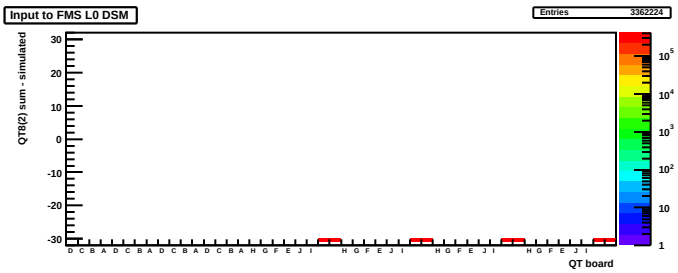

Input to FMS L0 DSM
Entries 2.017334e+07
QT8(0) sum
QT board

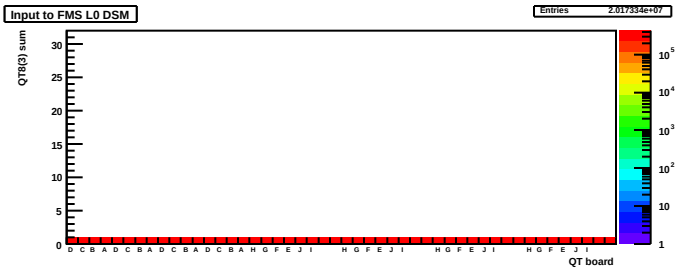

Input to FMS L0 DSM
Entries 3362224
QT8(0) sum - simulated
QT board

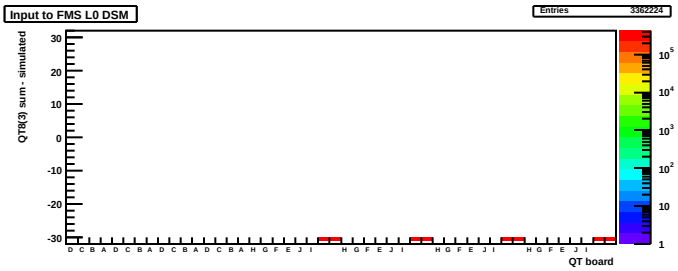

Input to FMS L0 DSM
Entries 2.017334e+07
QT8(1) sum
QT board

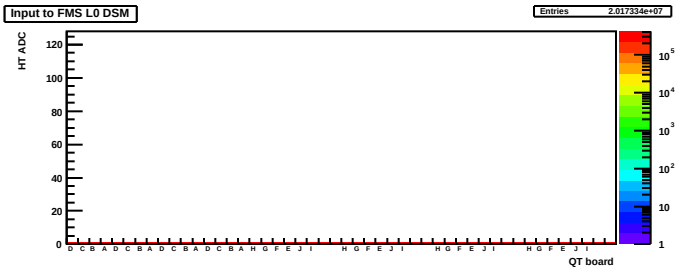

Input to FMS L0 DSM
Entries 3362224
QT8(1) sum - simulated
QT board

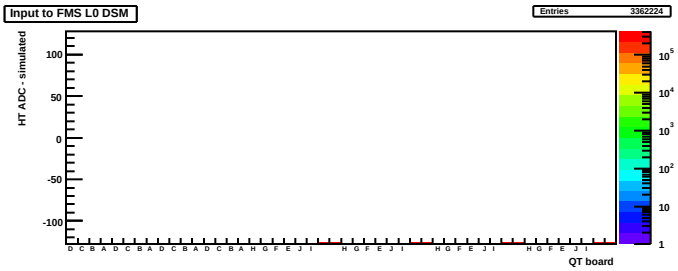

Input to FMS L0 DSM
Entries 2.017334e+07
QT8(2) sum
QT board

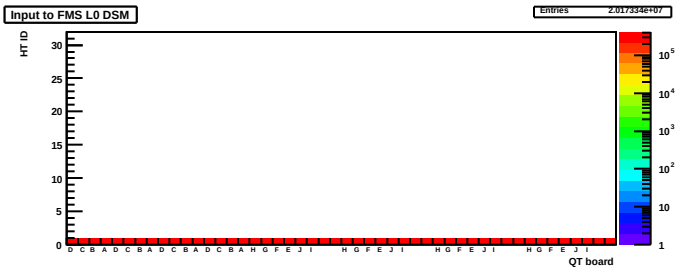

Input to FMS L0 DSM
Entries 3362224
QT8(2) sum - simulated
QT board

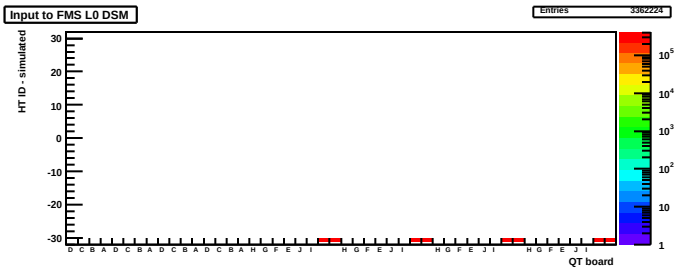

Input to FMS L0 DSM
Entries 2.017334e+07
QT8(3) sum
QT board

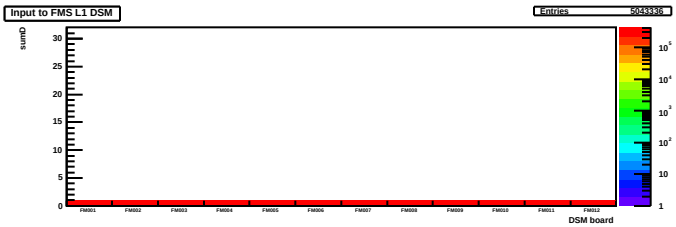

Input to FMS L0 DSM
Entries 3362224
QT8(3) sum - simulated
QT board

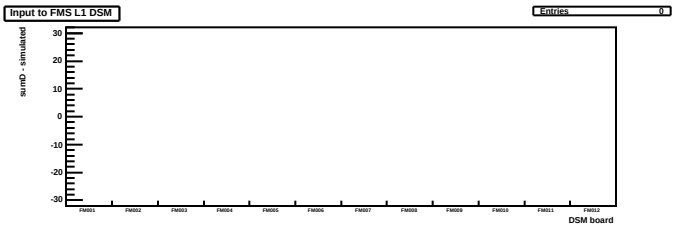

Input to FMS L0 DSM
Entries 2.017334e+07
HT ADC
QT board

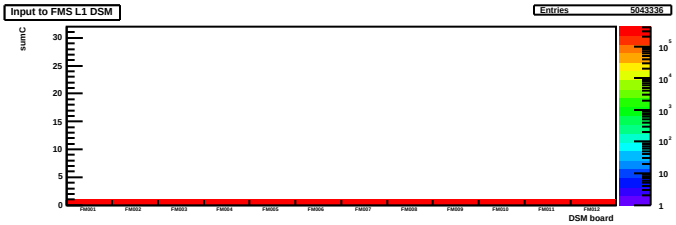

Input to FMS L0 DSM
Entries 3362224
HT ADC - simulated
QT board

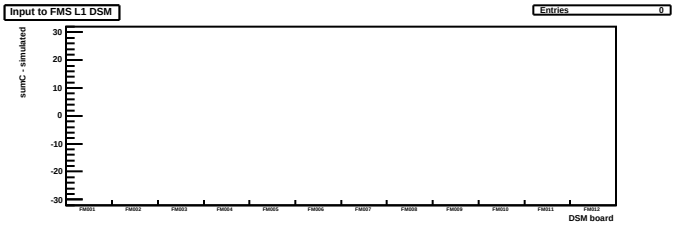

Input to FMS L0 DSM
Entries 2.017334e+07
HT ID
QT board

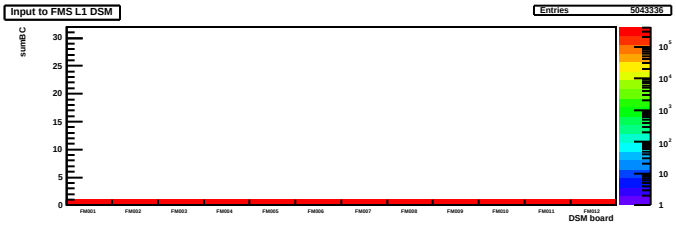

Input to FMS L0 DSM
Entries 3362224
HT ID - simulated
QT board

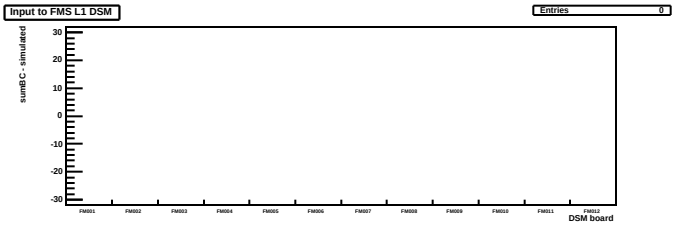

Input to FMS L1 DSM
Entries 5043336
sumD
DSM board

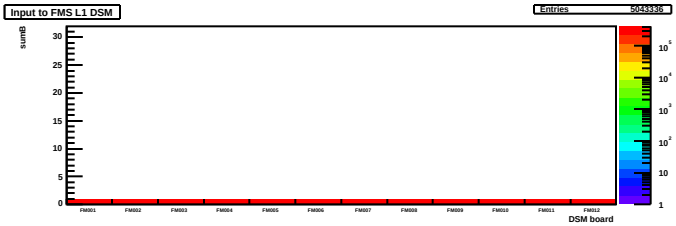

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

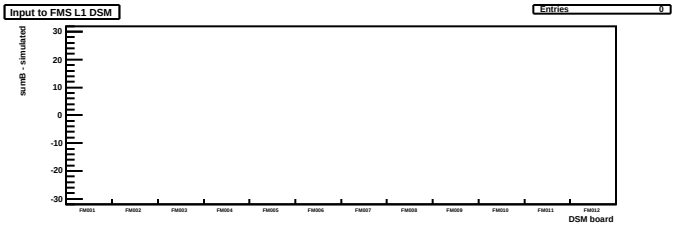

Input to FMS L1 DSM
Entries 5043336
sumC
DSM board

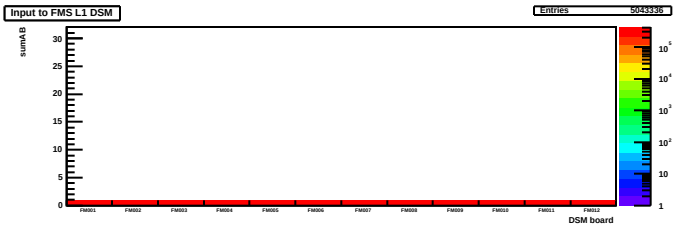

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

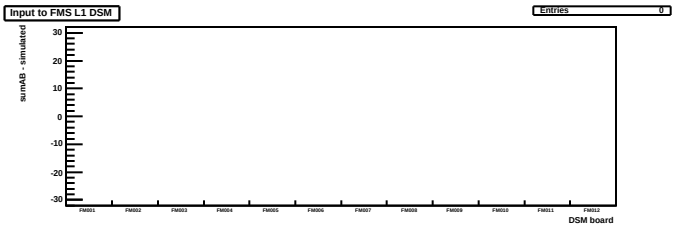

Input to FMS L1 DSM
Entries 5043336
sumBC
DSM board

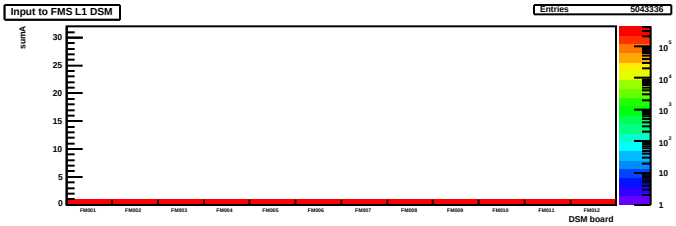

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

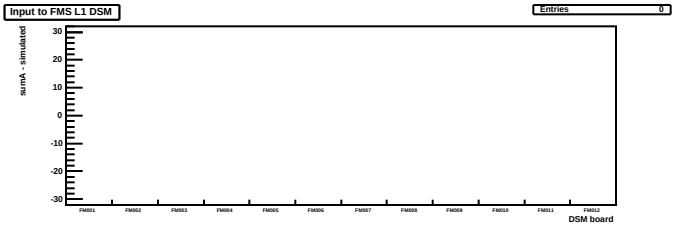

Input to FMS L1 DSM
Entries 5043336
sumB
DSM board

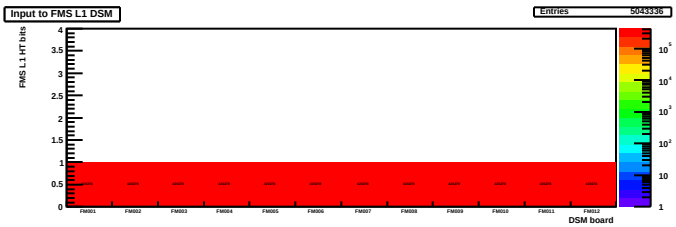

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

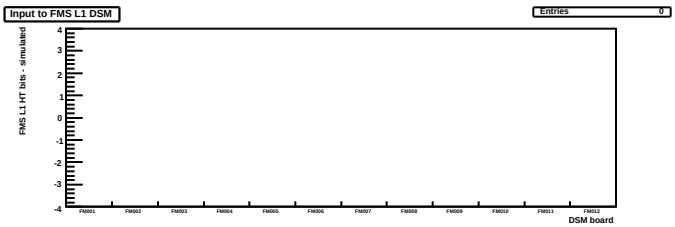

Input to FMS L1 DSM
Entries 5043336
sumAB
DSM board

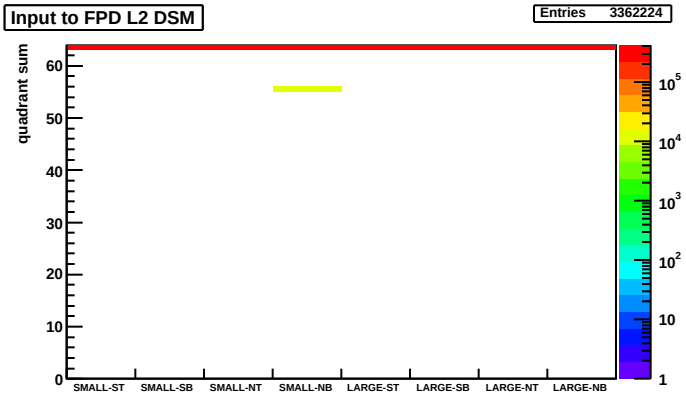

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

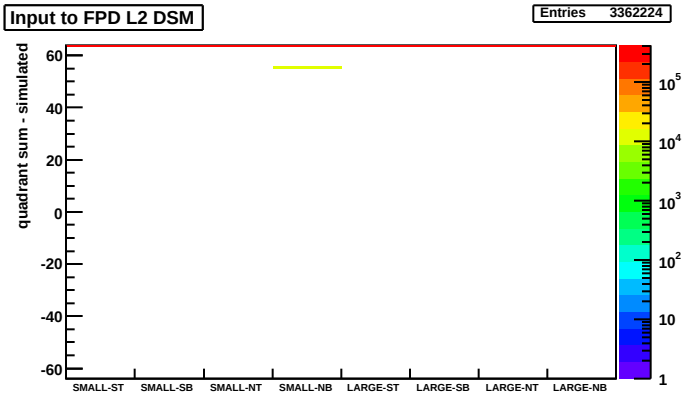

Input to FMS L1 DSM
Entries 5043336
sumA
DSM board

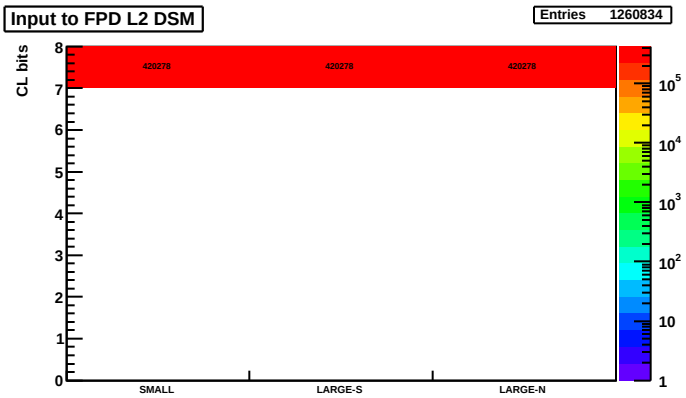

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

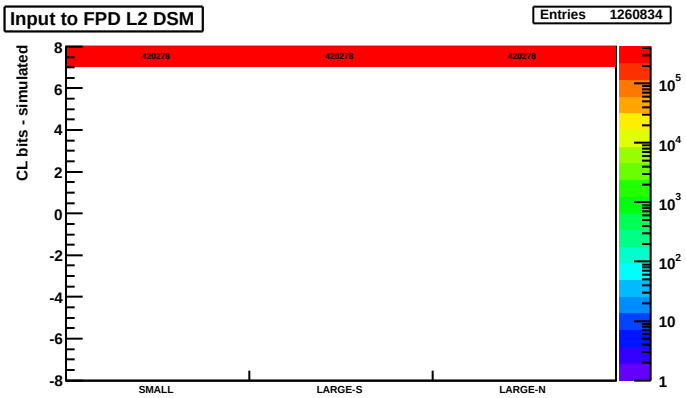

Input to FMS L1 DSM
Entries 5043336
FMS L1 HT bits
DSM board

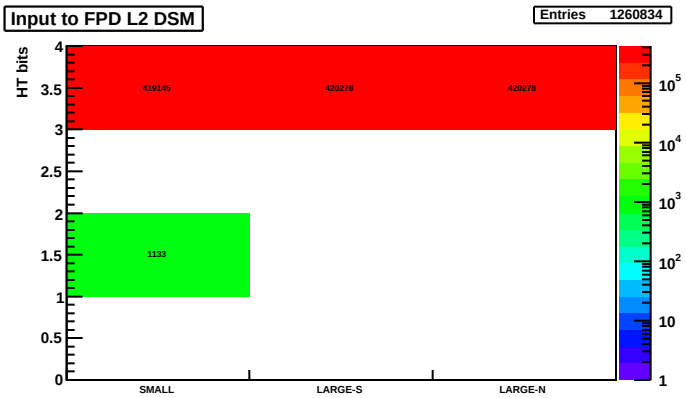

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

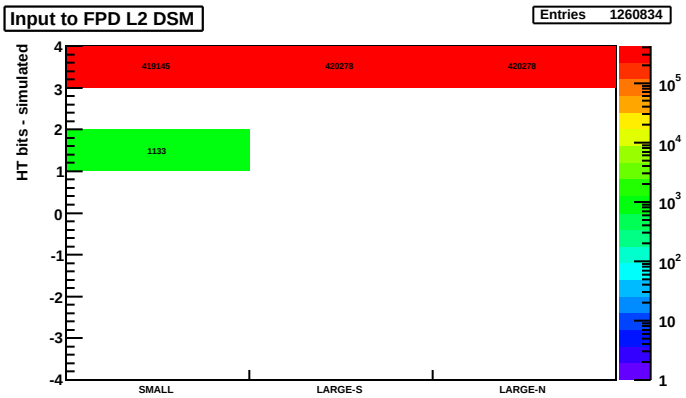

Input to FPD L2 DSM
Entries 3362224
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

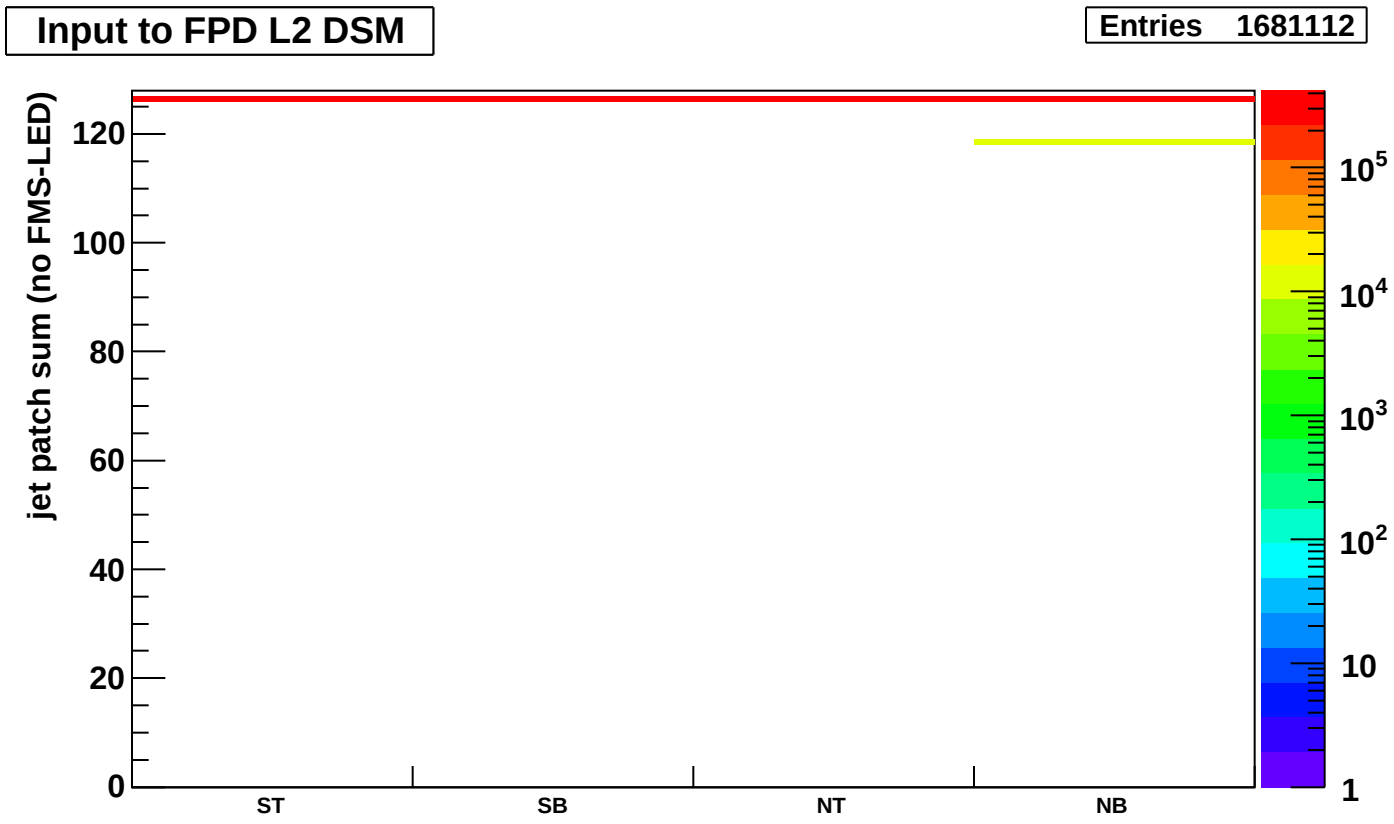

Input to FPD L2 DSM
Entries 3362224
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

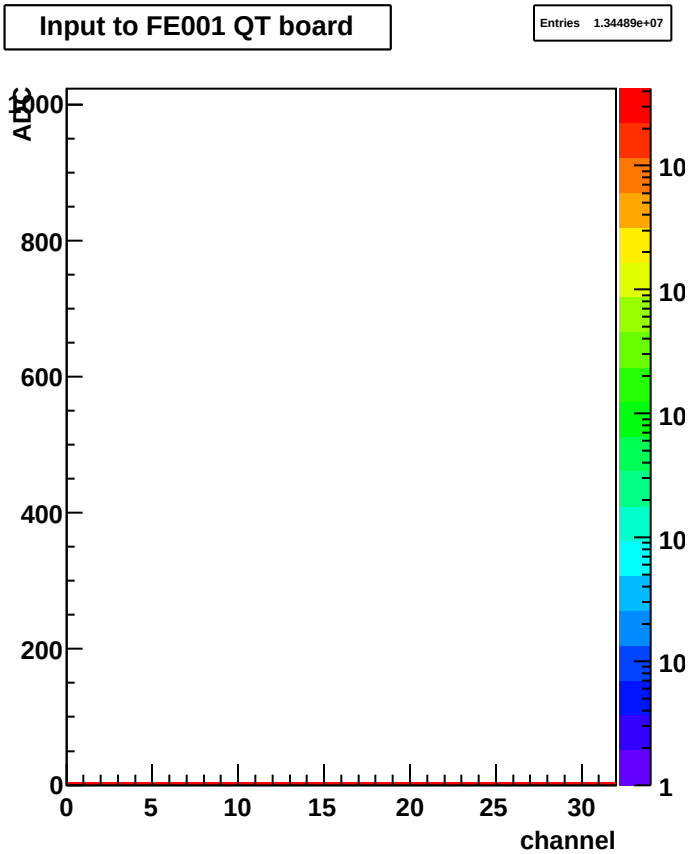

Input to FPD L2 DSM
Entries 1260834
CL bits
420278
420278
420278
SMALL
LARGE-S
LARGE-N

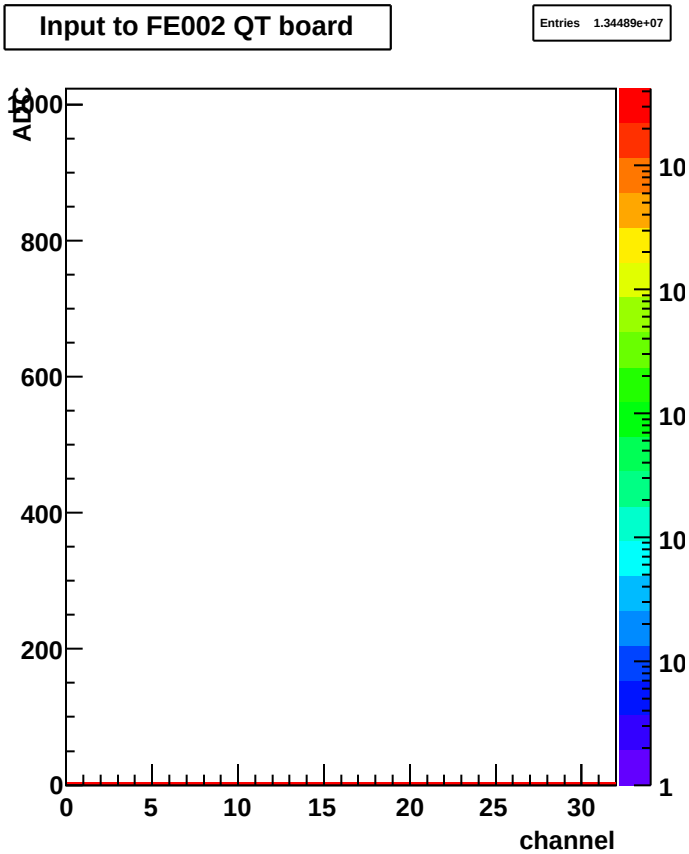

Input to FPD L2 DSM
Entries 1260834
CL bits - simulated
420278
420278
420278
SMALL
LARGE-S
LARGE-N

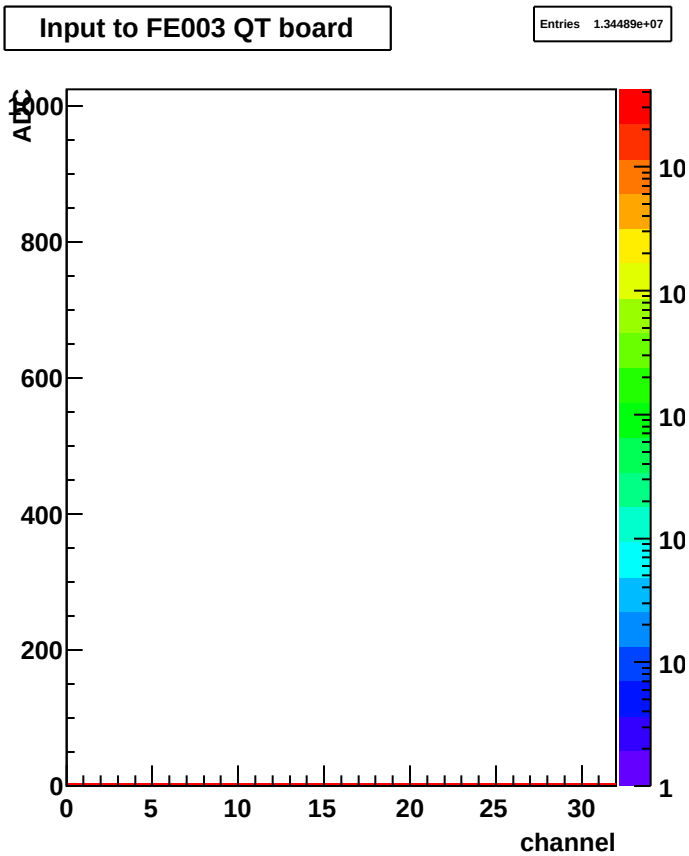

Input to FPD L2 DSM
Entries 1260834
HT bits
419145
420278
420278
1133
SMALL
LARGE-S
LARGE-N

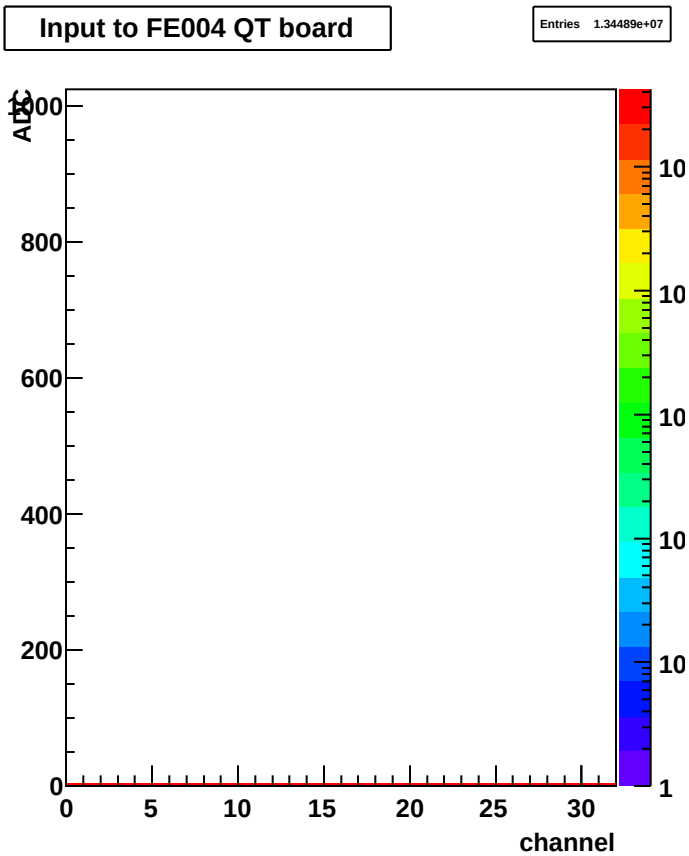

Input to FPD L2 DSM
Entries 1260834
HT bits - simulated
419145
420278
420278
1133
SMALL
LARGE-S
LARGE-N

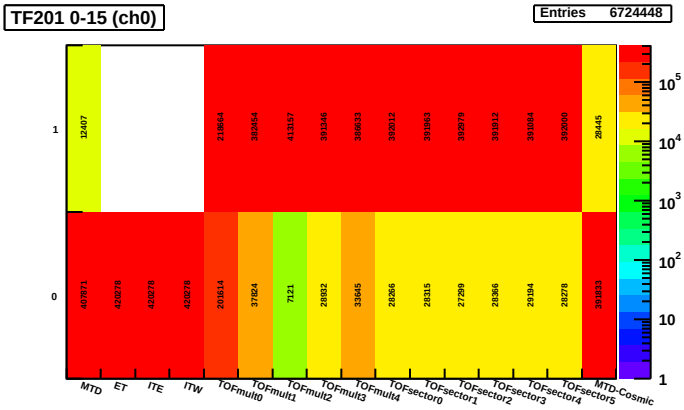

Input to FPD L2 DSM
Entries 1681112
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

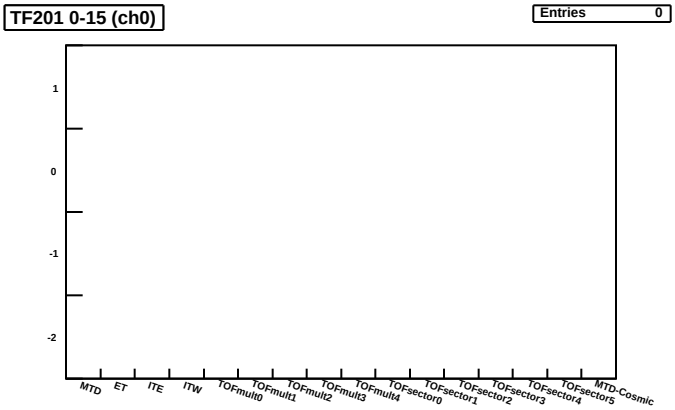

Input to FE001 QT board
Entries 1.34489e+07
ADC
channel

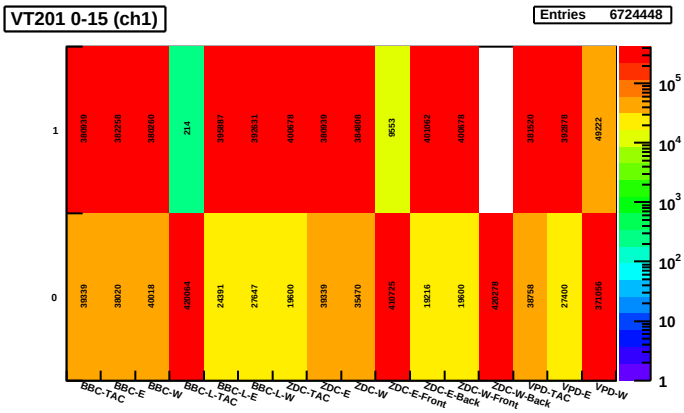

Input to FE002 QT board
Entries 1.34489e+07
ADC
channel

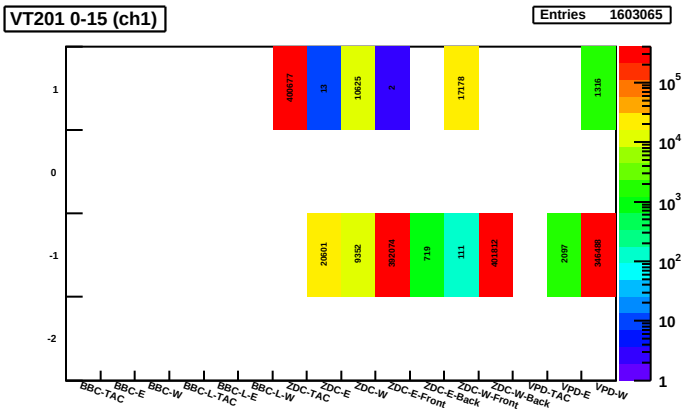

Input to FE003 QT board
Entries 1.34489e+07
ADC
channel

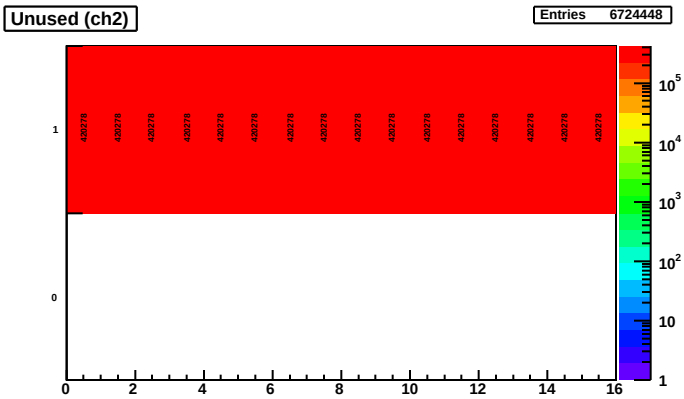

Input to FE004 QT board
Entries 1.34489e+07
ADC
channel

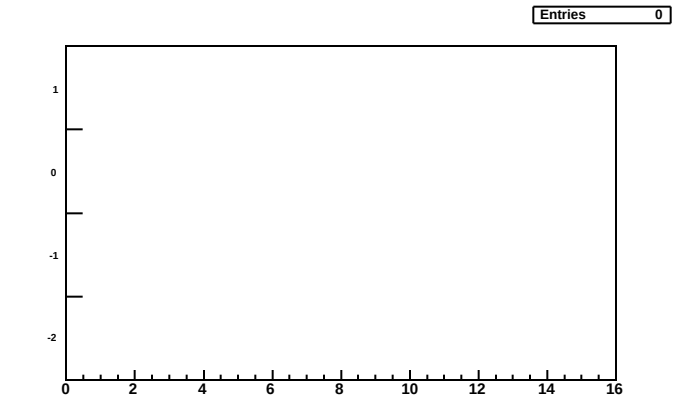

TF201 0-15 (ch0)
Entries 6724448
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

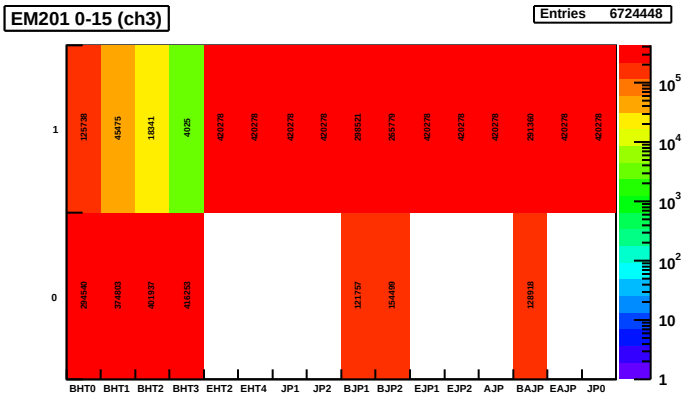

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

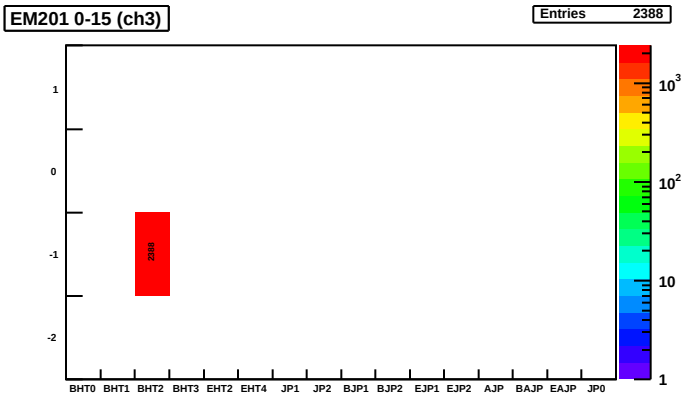

VT201 0-15 (ch1)
Entries 6724448
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1603065
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

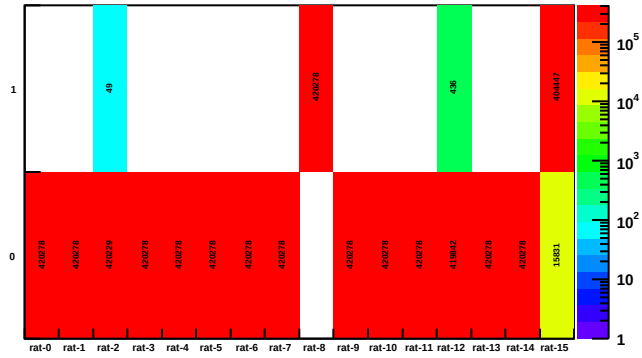

Unused (ch2)
Entries 6724448

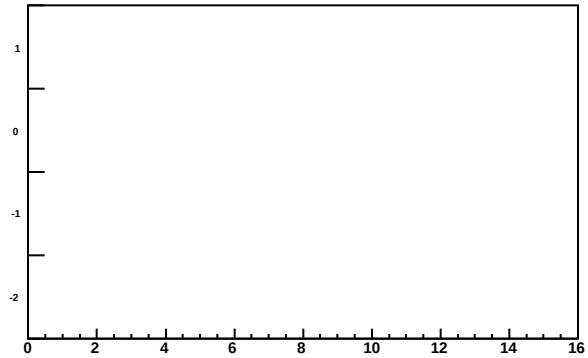

Entries 0


EM201 0-15 (ch3)
Entries 6724448
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

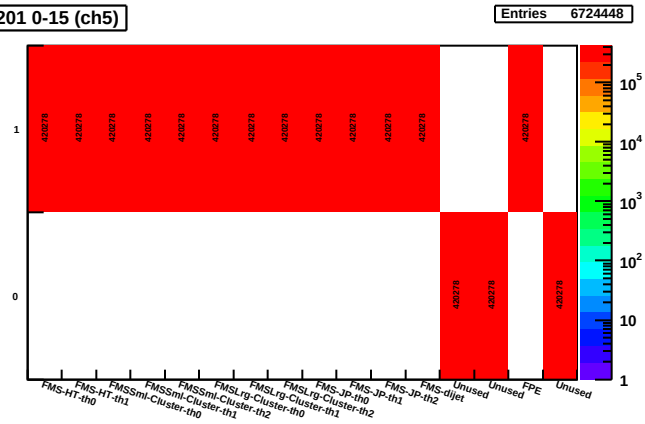

EM201 0-15 (ch3)
Entries 2388
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

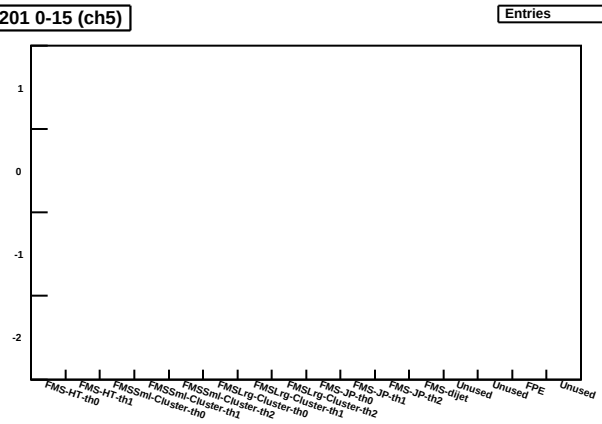




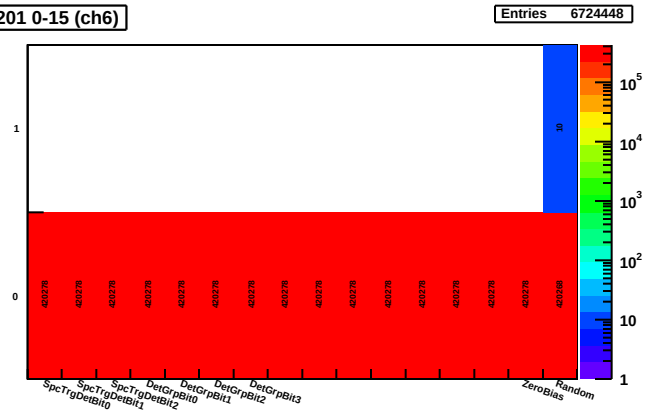
FP201 0-15 (ch5)

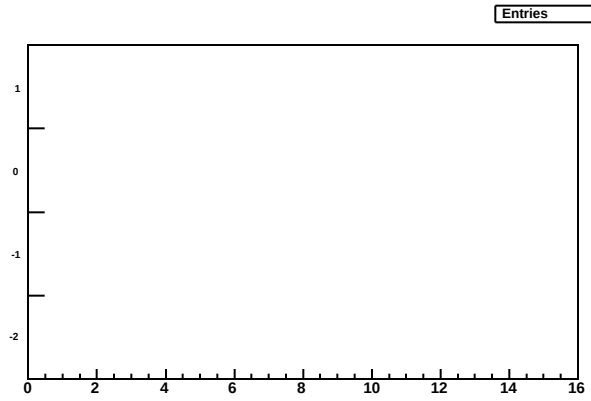
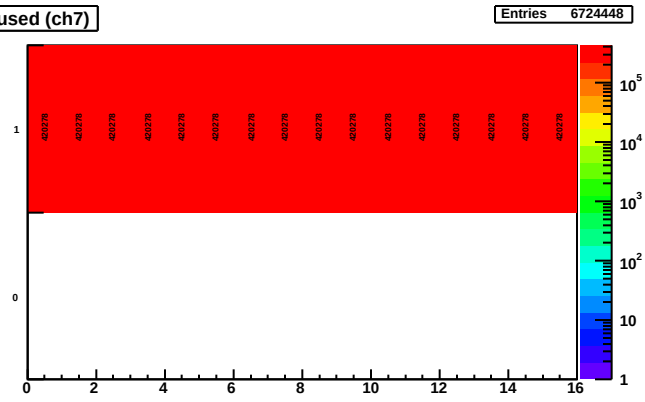
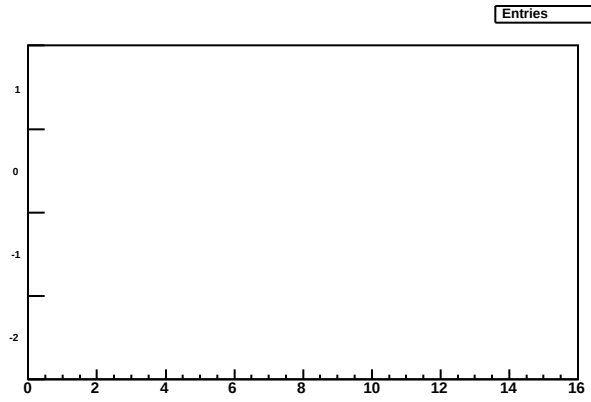


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)