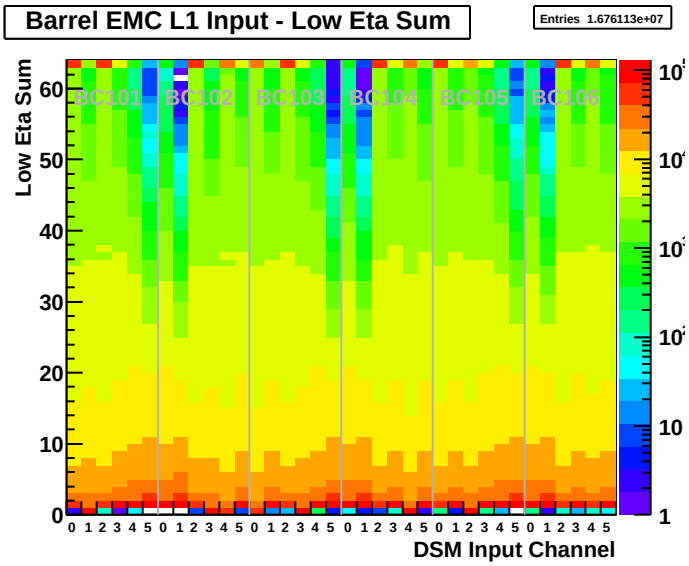
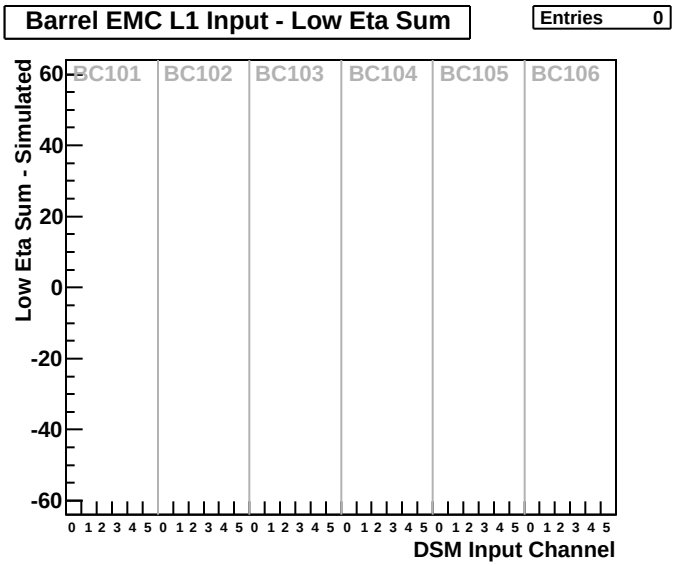
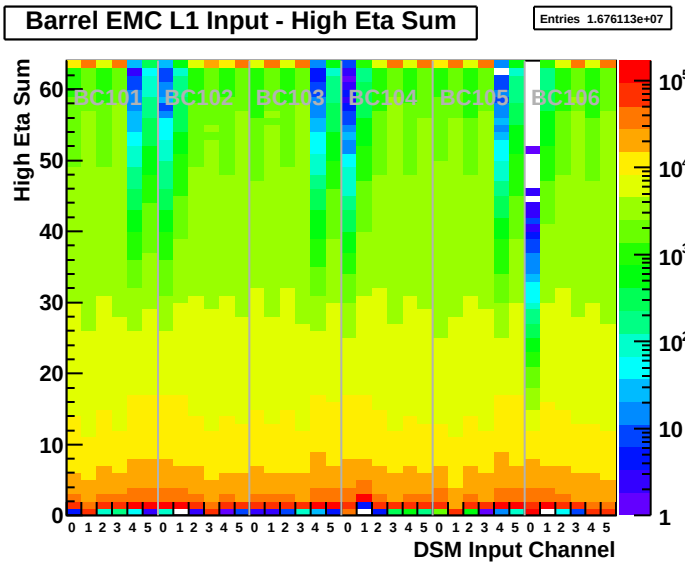
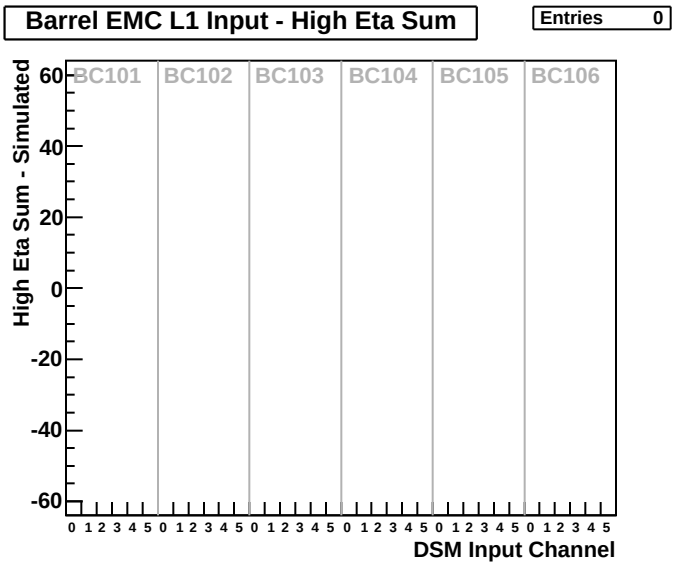
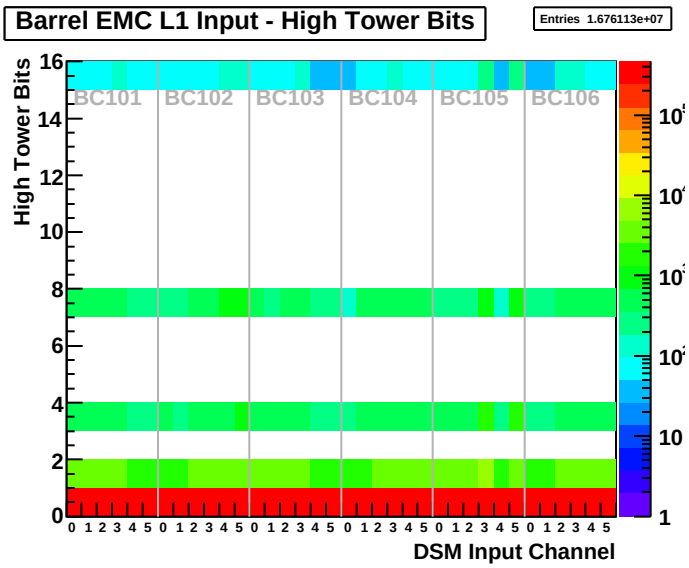
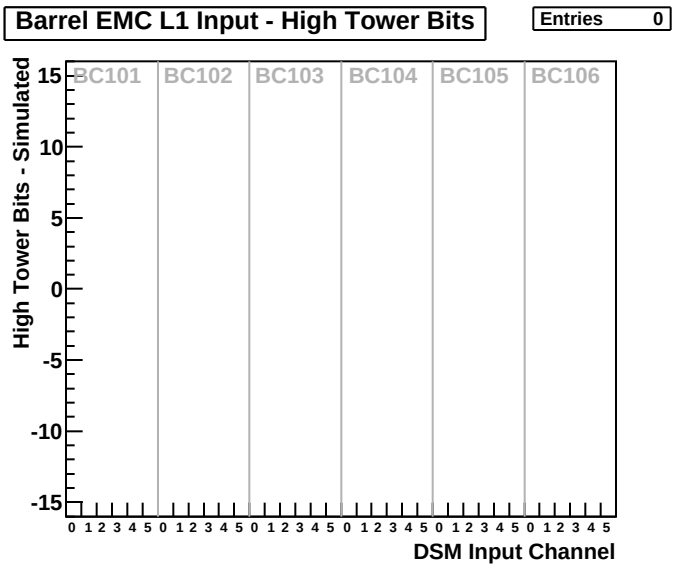

Barrel EMC L1 Input - Low Eta Sum
Entries 1.676113e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

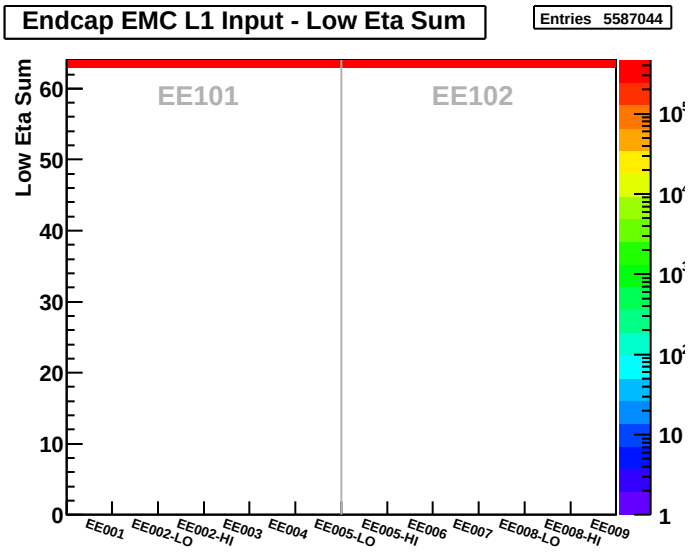

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

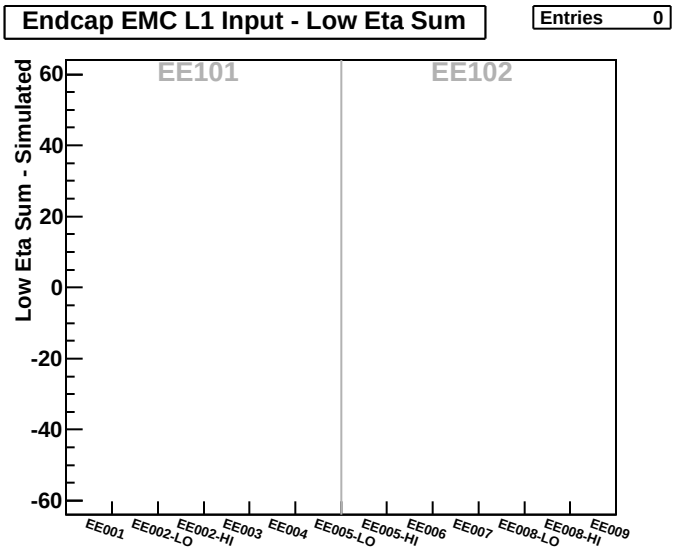

Barrel EMC L1 Input - High Eta Sum
Entries 1.676113e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

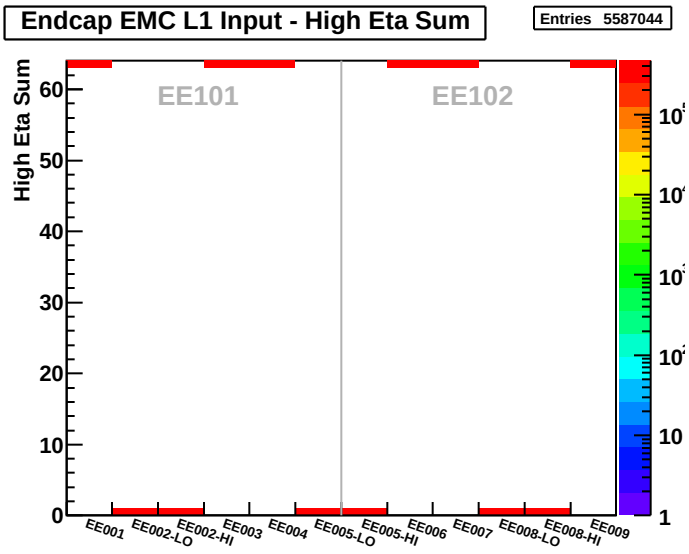

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

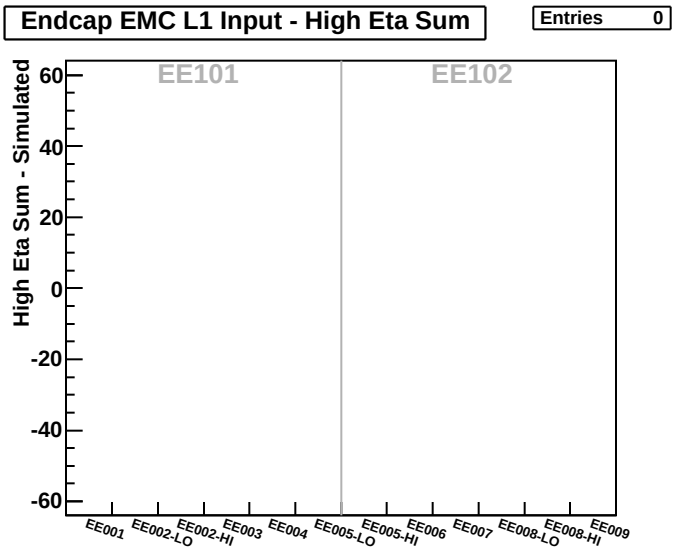

Barrel EMC L1 Input - High Tower Bits
Entries 1.676113e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

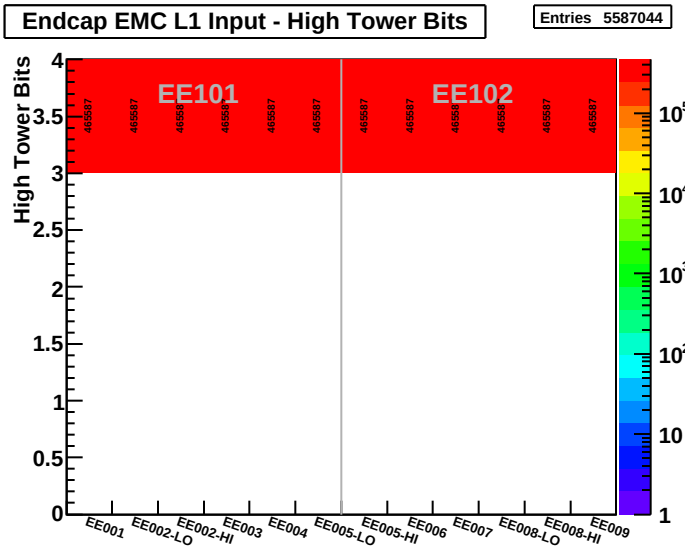

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

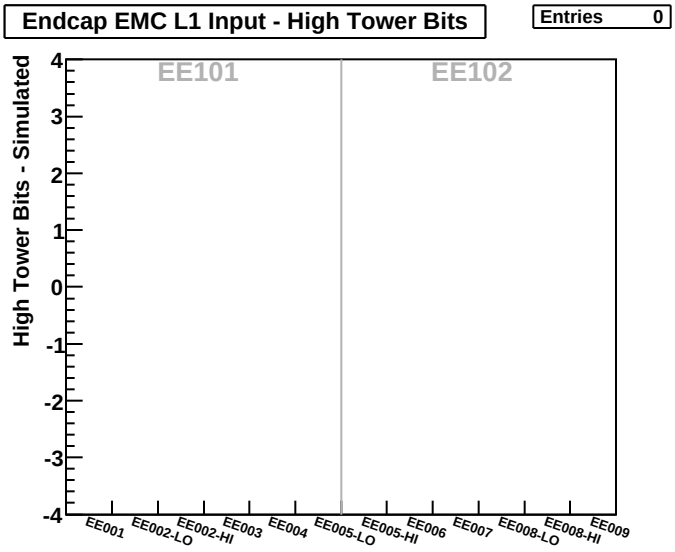

Endcap EMC L1 Input - Low Eta Sum
Entries 5587044
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

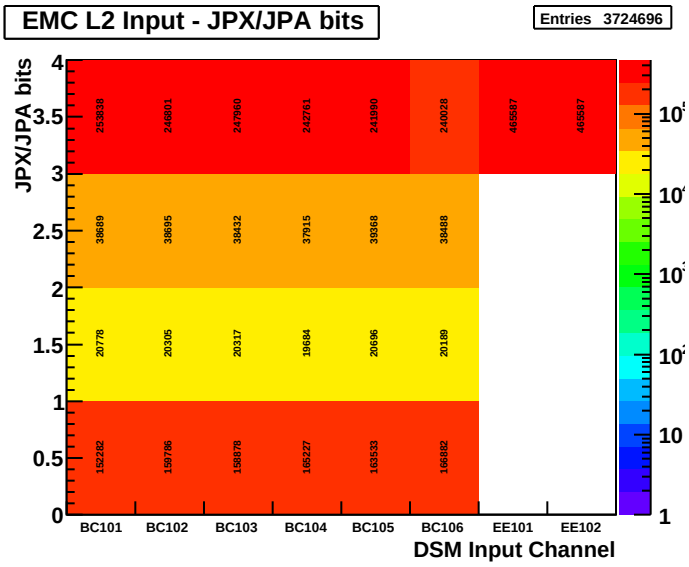

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

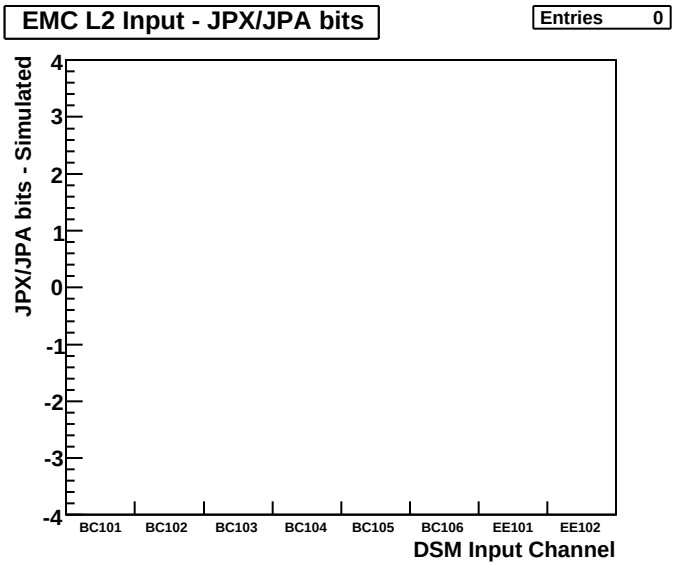

Endcap EMC L1 Input - High Eta Sum
Entries 5587044
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

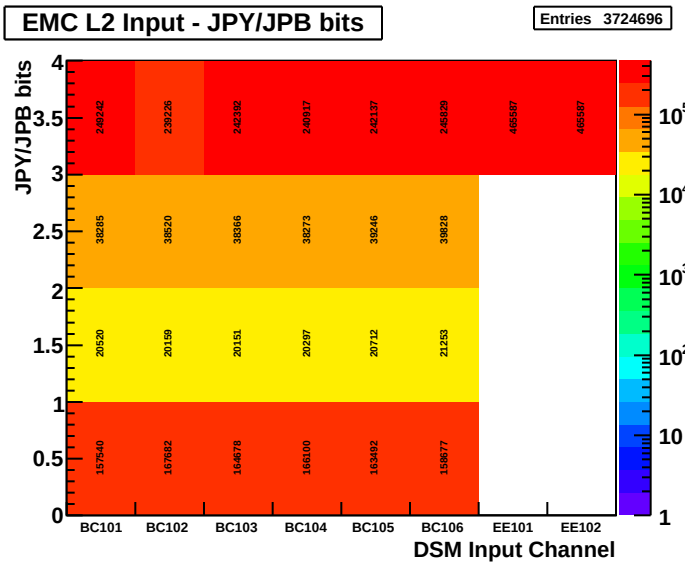

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

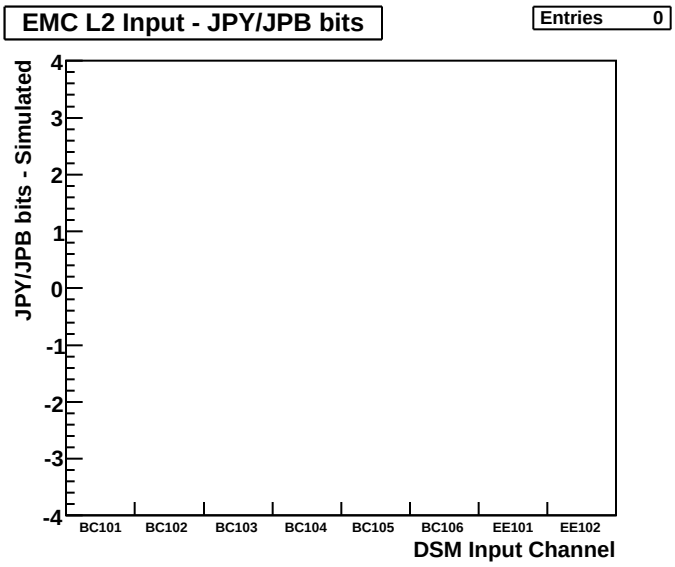

Endcap EMC L1 Input - High Tower Bits
Entries 5587044
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

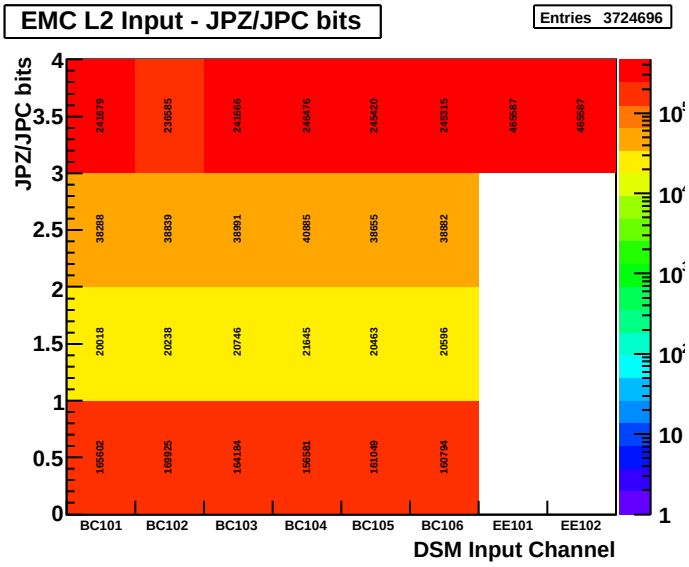

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

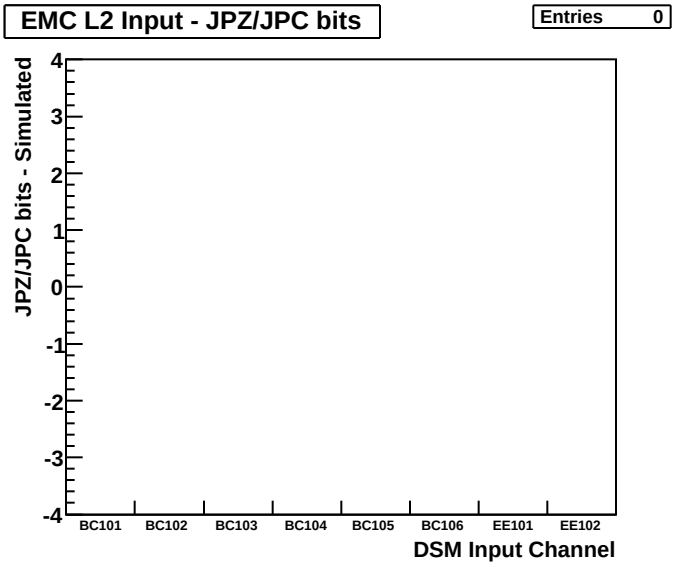

EMC L2 Input - JPX/JPA bits
Entries 3724696
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
253838 246801 247860 242761 241990 240028 465587 465587
38689 38695 38432 37915 38068 38488
20778 20305 20317 19684 20696 20189
152282 159786 158878 165227 163533 166892

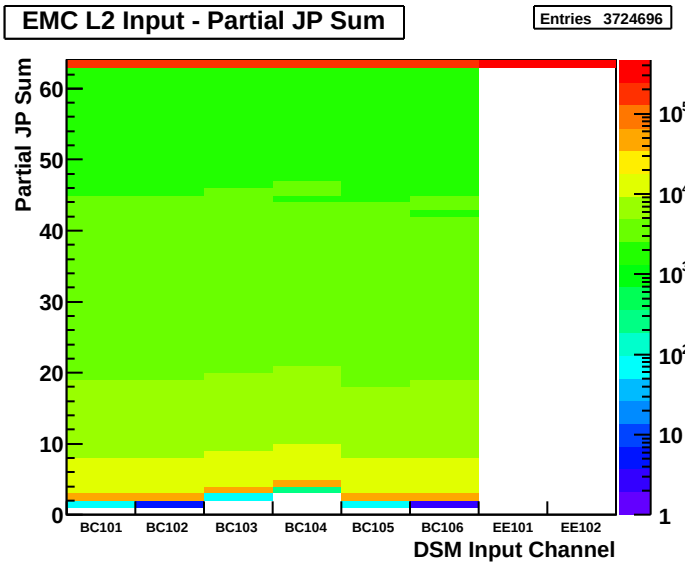

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

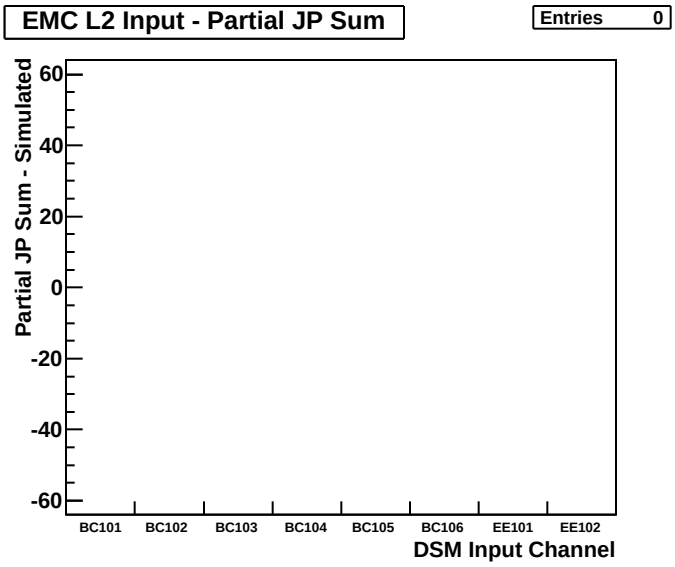

EMC L2 Input - JPY/JPB bits
Entries 3724696
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
248242 239226 242302 240917 242137 245829 465587 465587
38285 38520 38366 38273 38246 38828
20520 20159 20151 20297 20712 21253
157540 167682 164678 166100 163492 158677

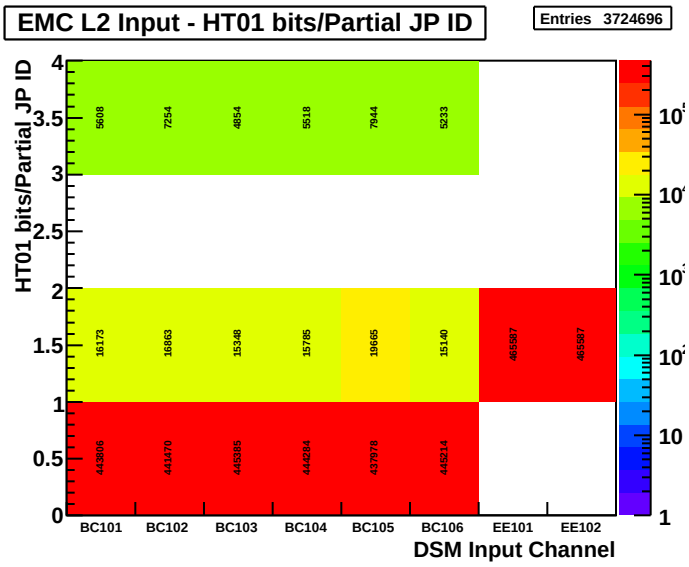

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

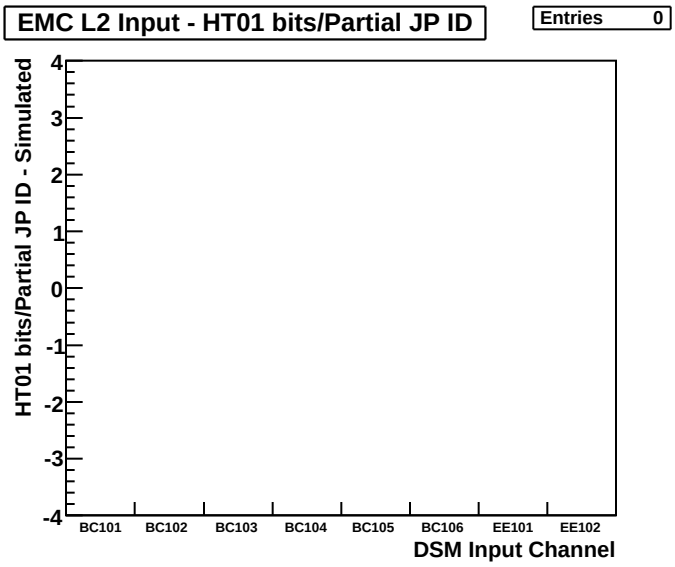

EMC L2 Input - JPZ/JPC bits
Entries 3724696
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
241679 235585 243566 246476 245420 245315 465587 465587
38288 38839 38991 40885 38655 38882
20018 20238 20746 21645 20463 20596
165602 169925 164184 156581 161049 160794

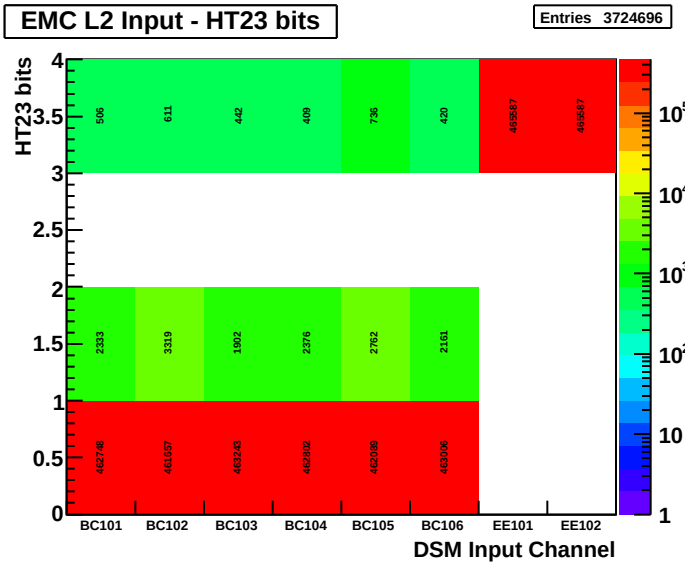

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

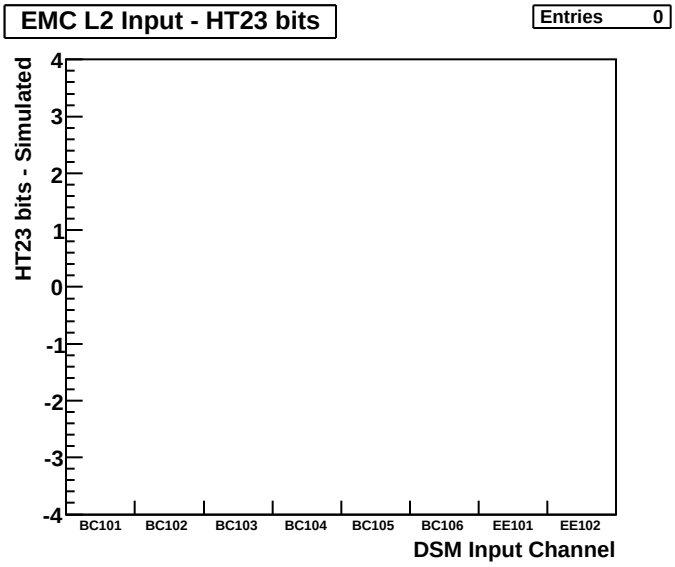

EMC L2 Input - Partial JP Sum
Entries 3724696
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

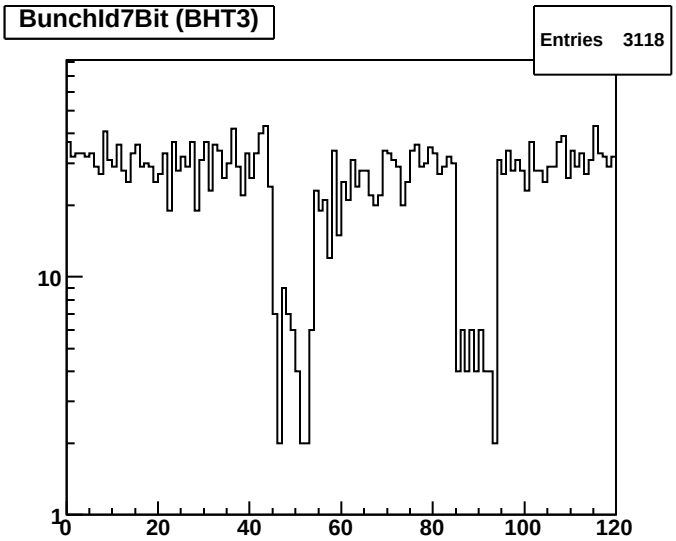

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

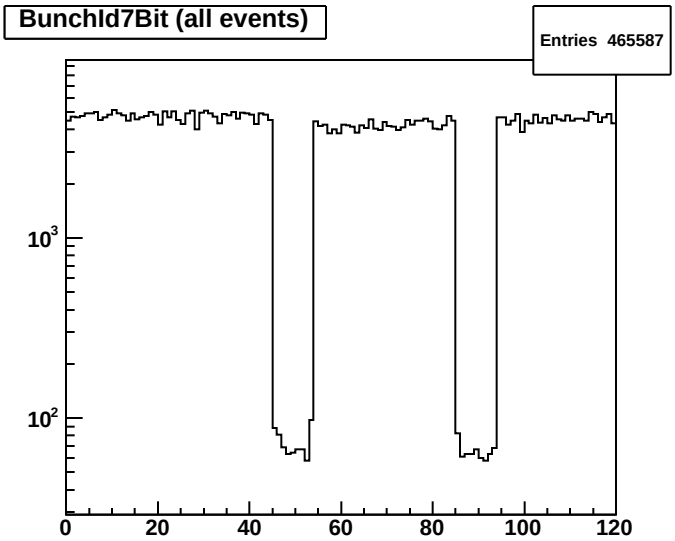

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3724696
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

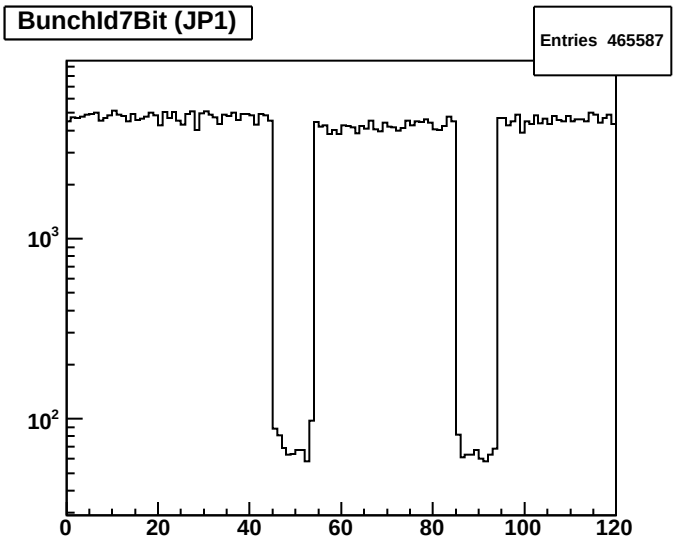

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

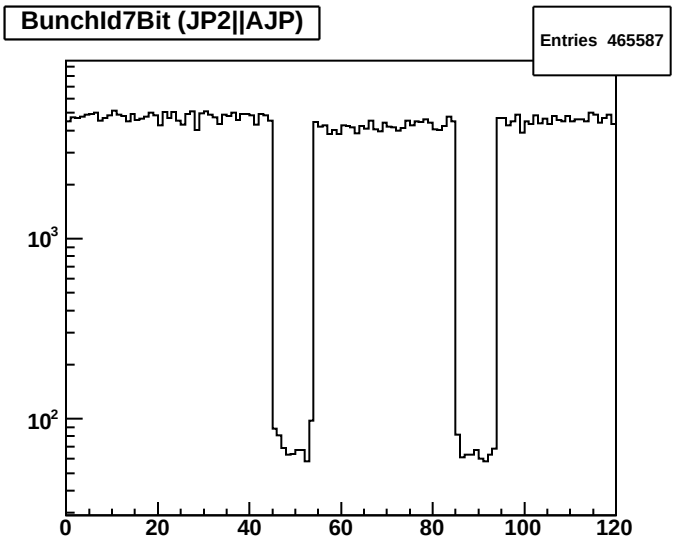

EMC L2 Input - HT23 bits
Entries 3724696
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

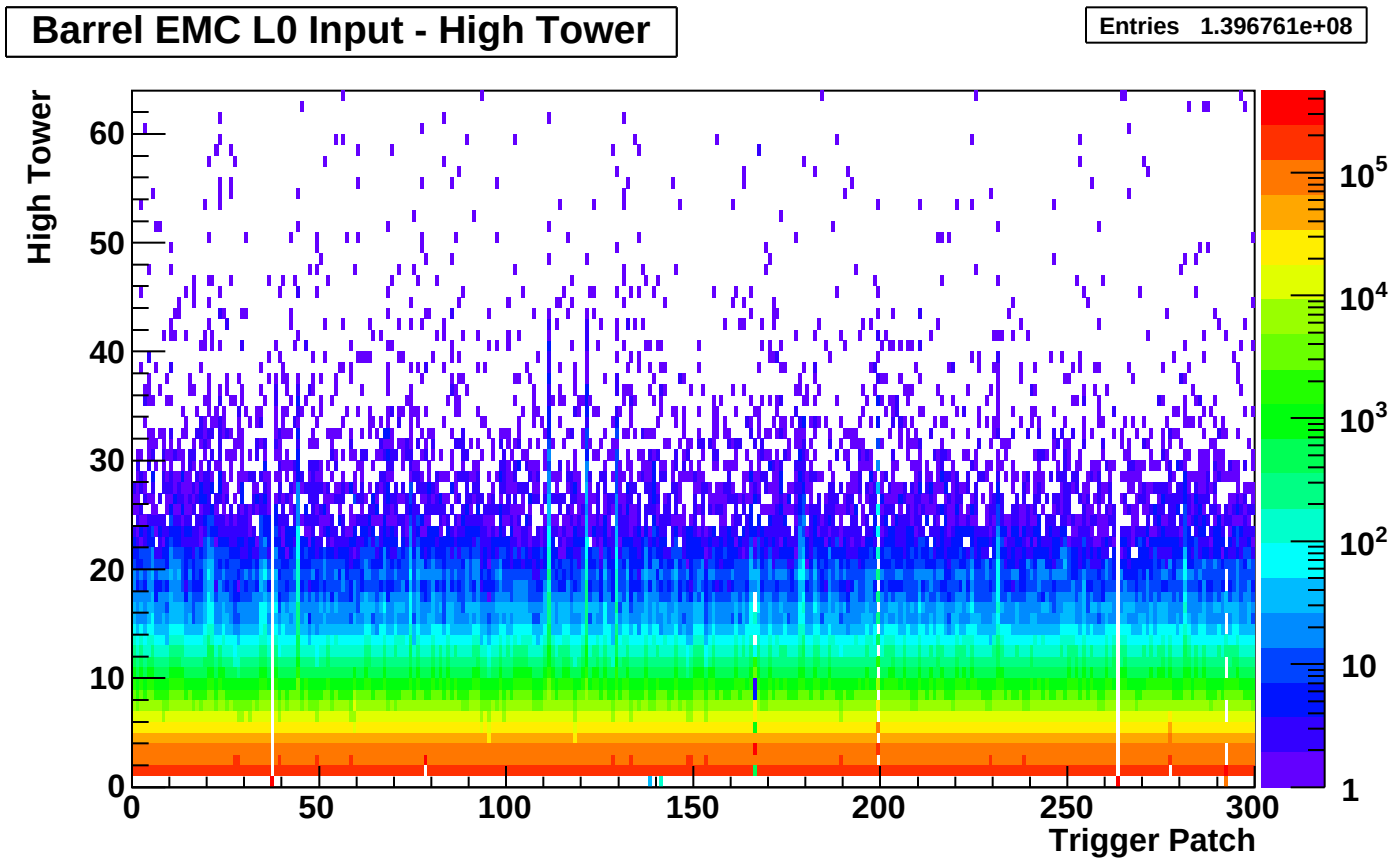

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

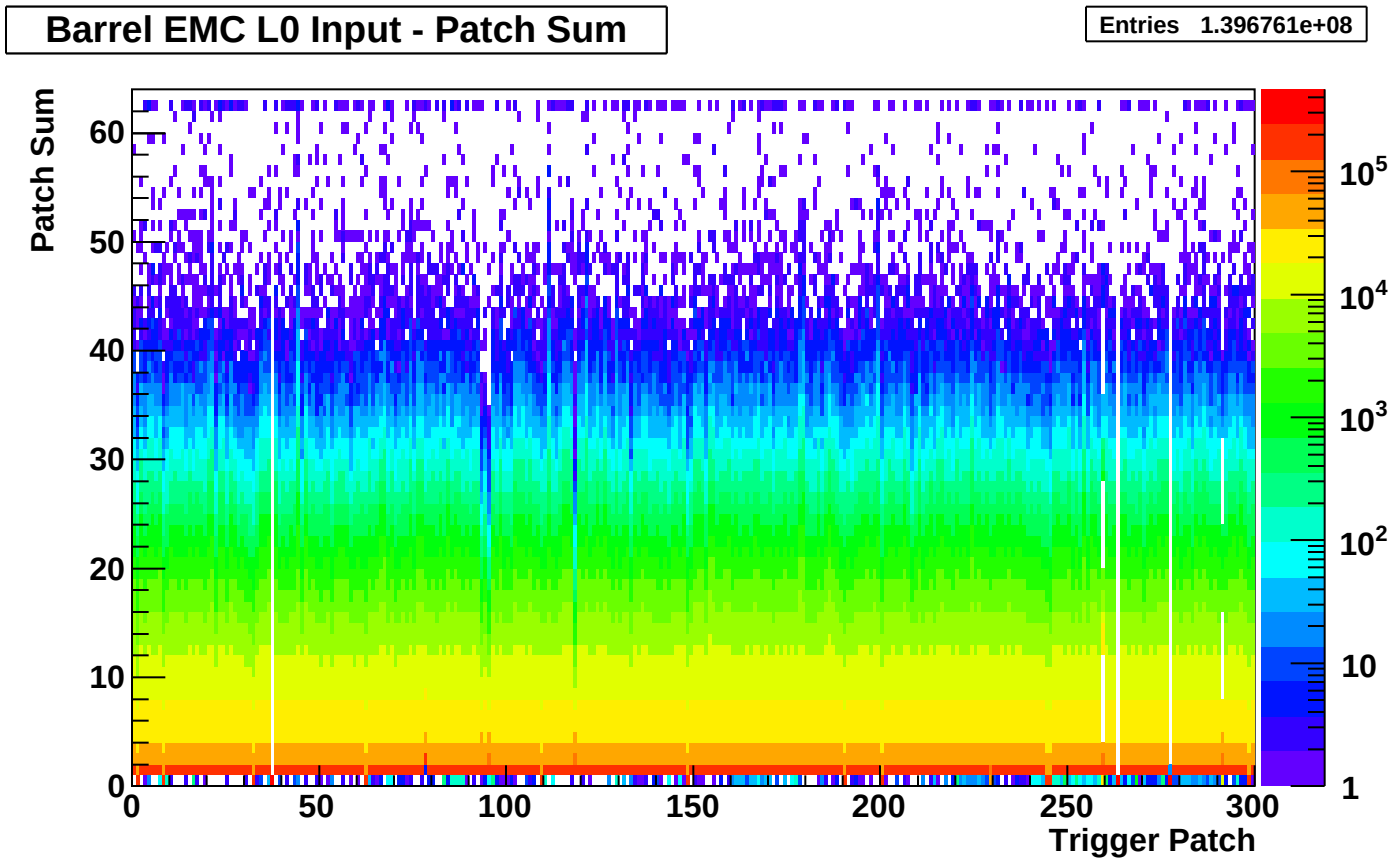

BunchId7Bit (BHT3)
Entries 3118
10
1
0
20
40
60
80
100
120

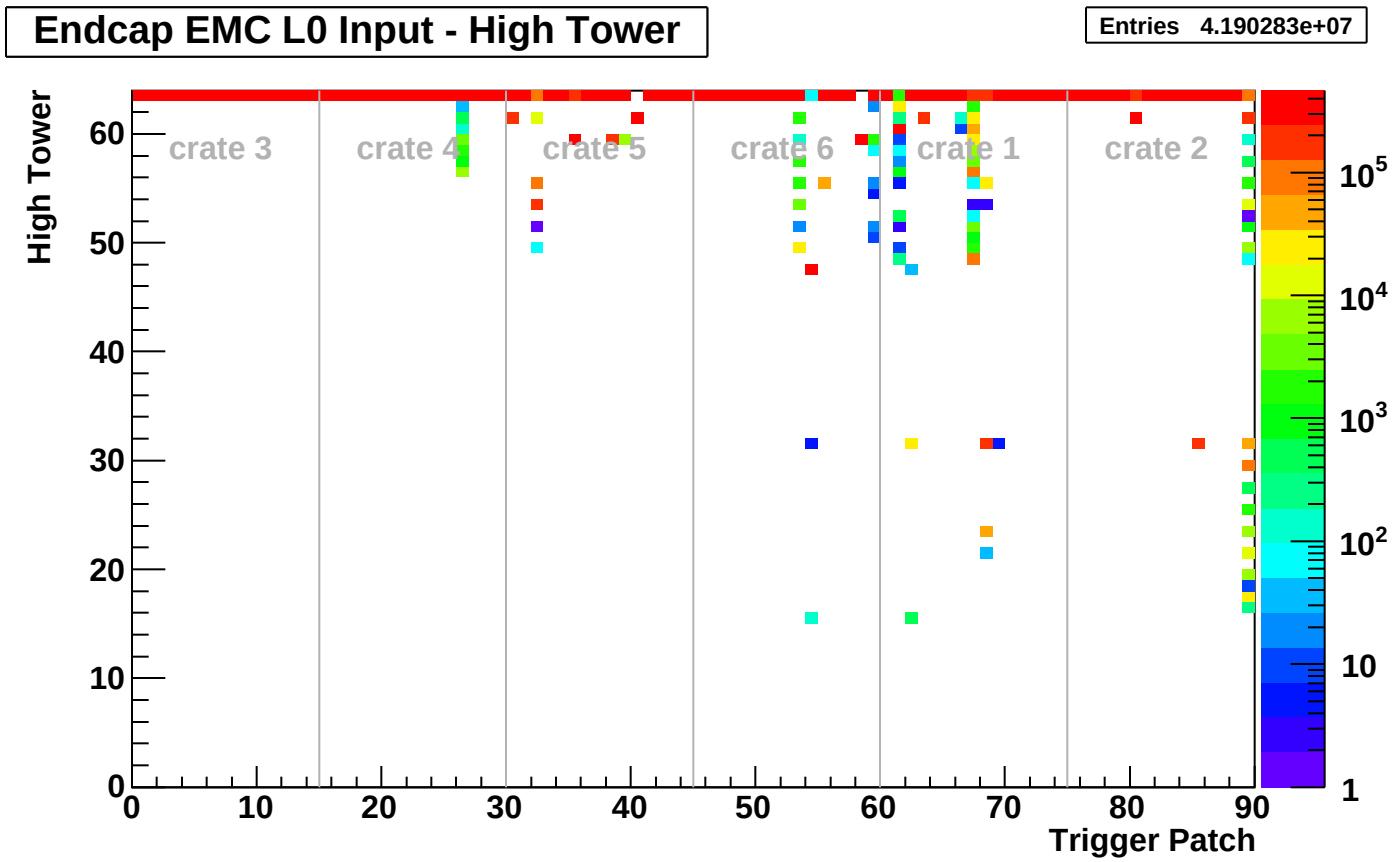

BunchId7Bit (all events)
Entries 465587
10^3
10^2
0
20
40
60
80
100
120

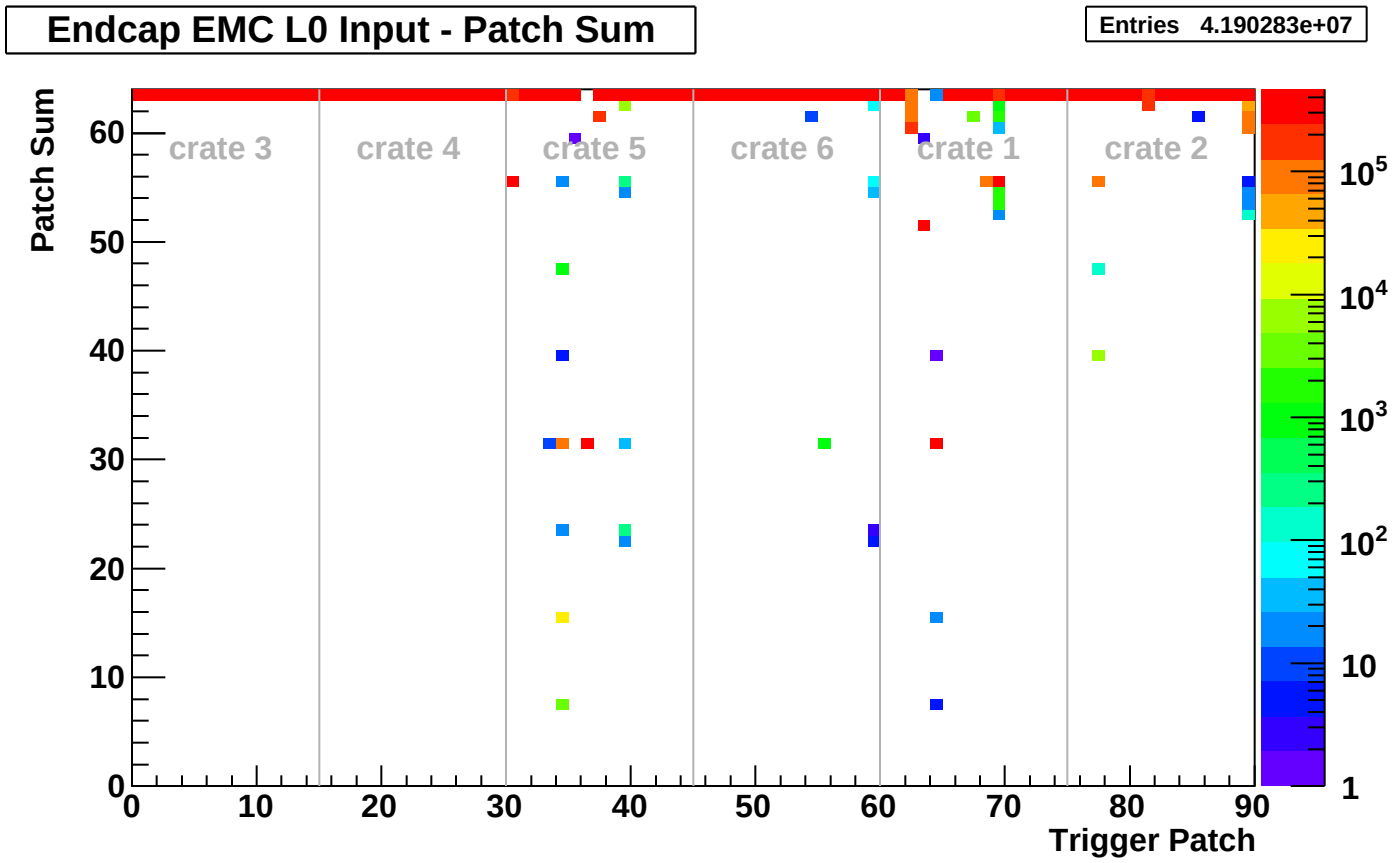

BunchId7Bit (JP1)
Entries 465587
10^3
10^2
0
20
40
60
80
100
120

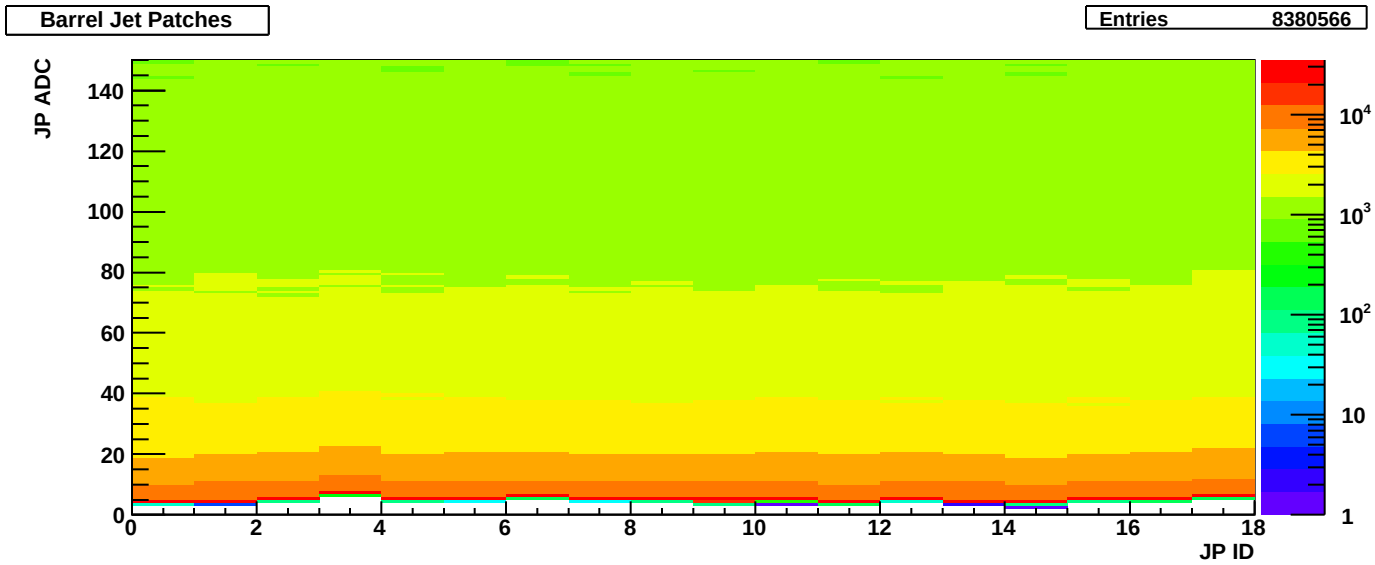

BunchId7Bit (JP2||AJP)
Entries 465587
10^3
10^2
0
20
40
60
80
100
120

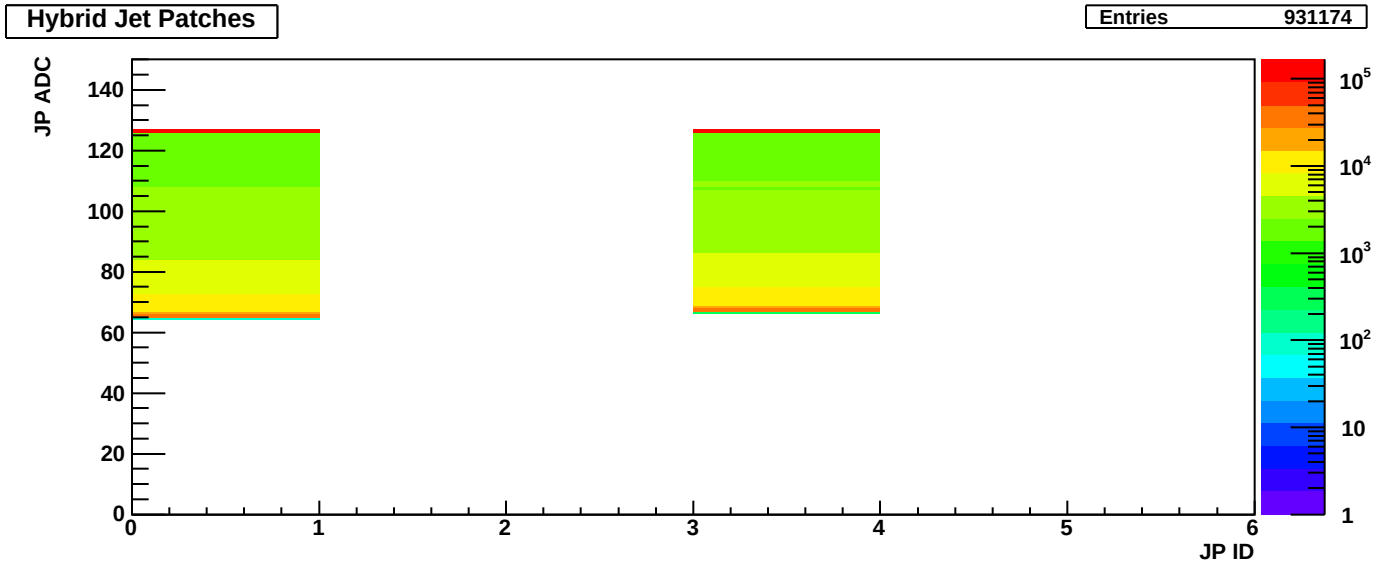

Barrel EMC L0 Input - High Tower
Entries 1.396761e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

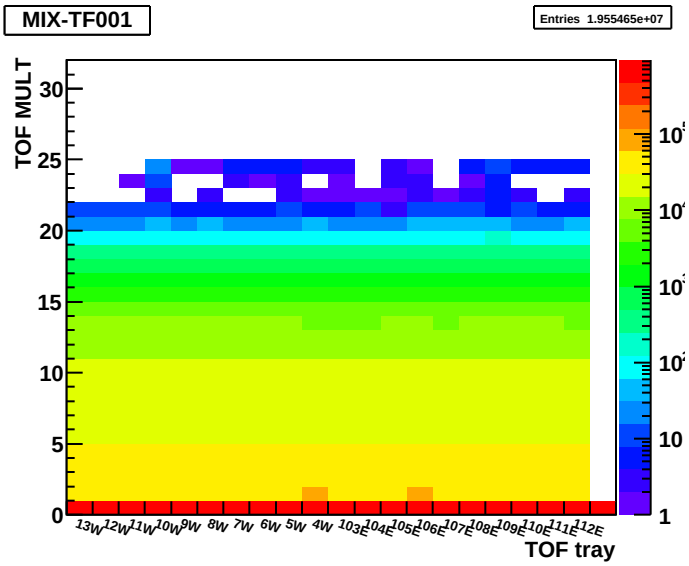

Barrel EMC L0 Input - Patch Sum
Entries 1.396761e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

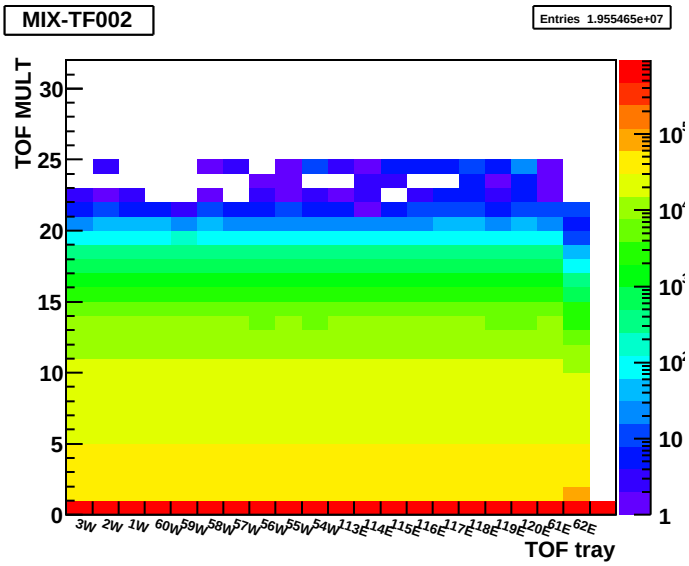

Endcap EMC L0 Input - High Tower
Entries 4.190283e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

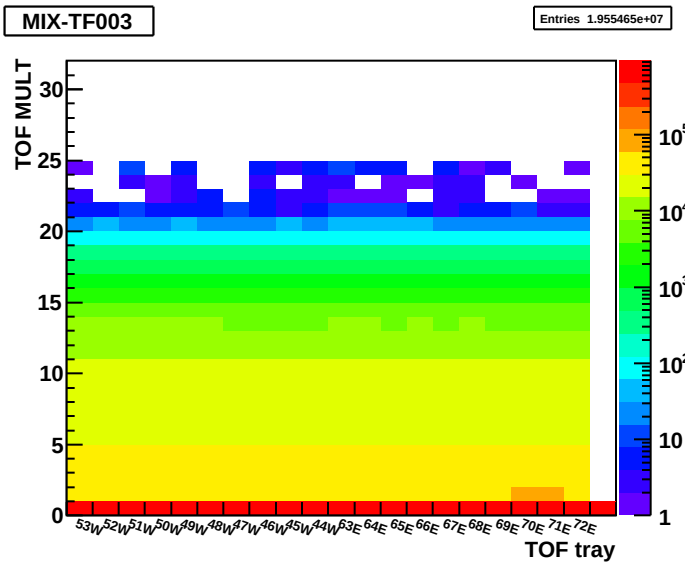

Endcap EMC L0 Input - Patch Sum
Entries 4.190283e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

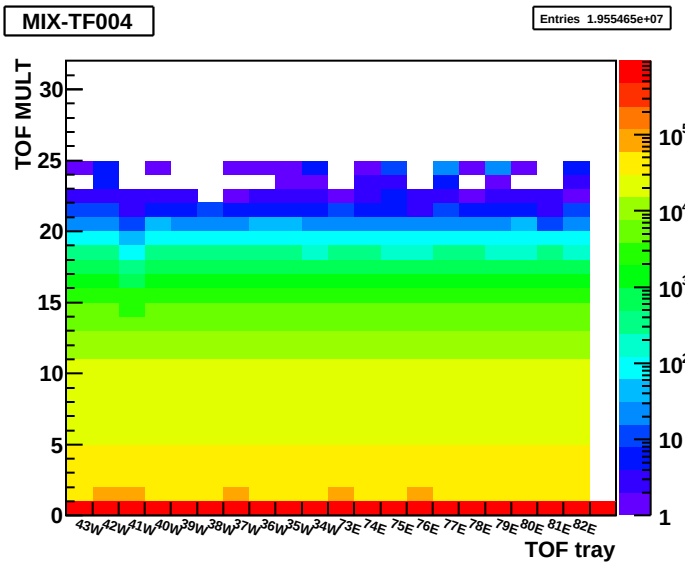

Barrel Jet Patches
Entries 8380566
JP ADC
JP ID

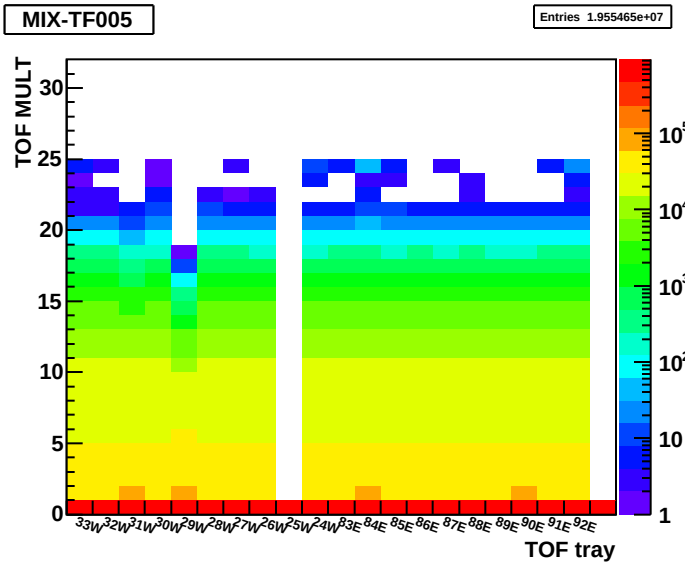

Hybrid Jet Patches
Entries 931174
JP ADC
JP ID

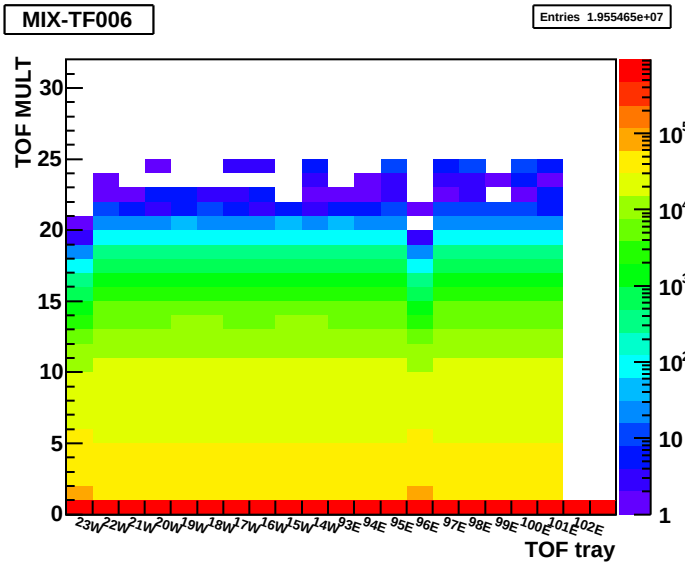

MIX-TF001
Entries 1.955465e+07
TOF MULT
TOF tray

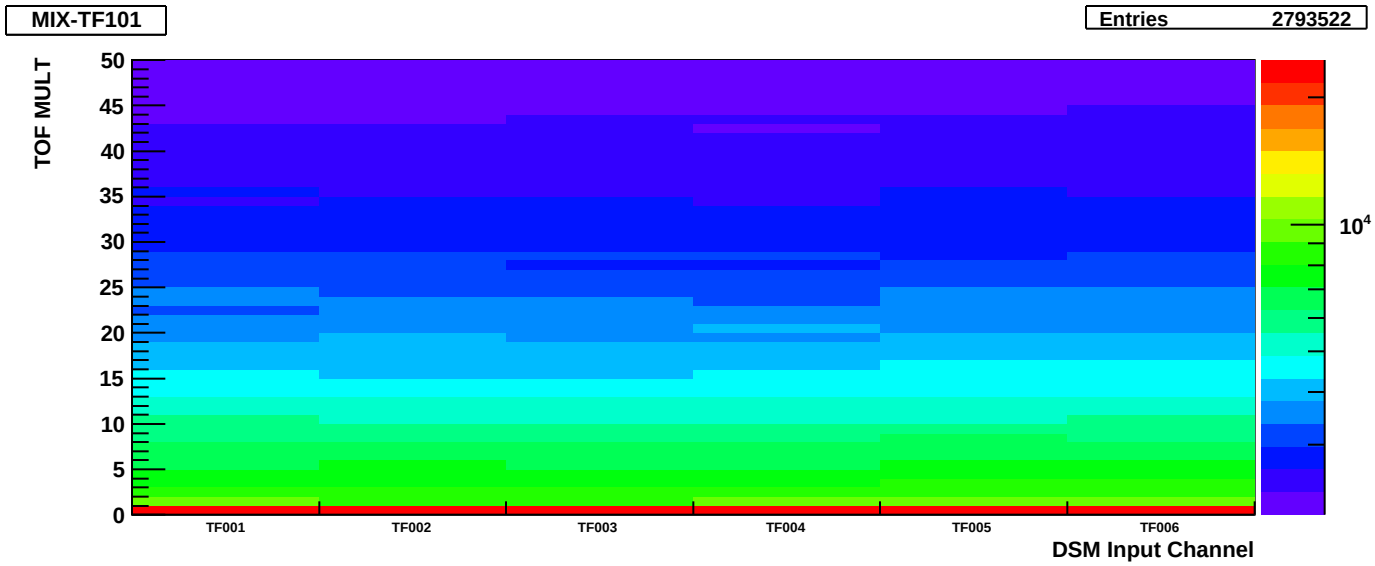

MIX-TF002
Entries 1.955465e+07
TOF MULT
TOF tray

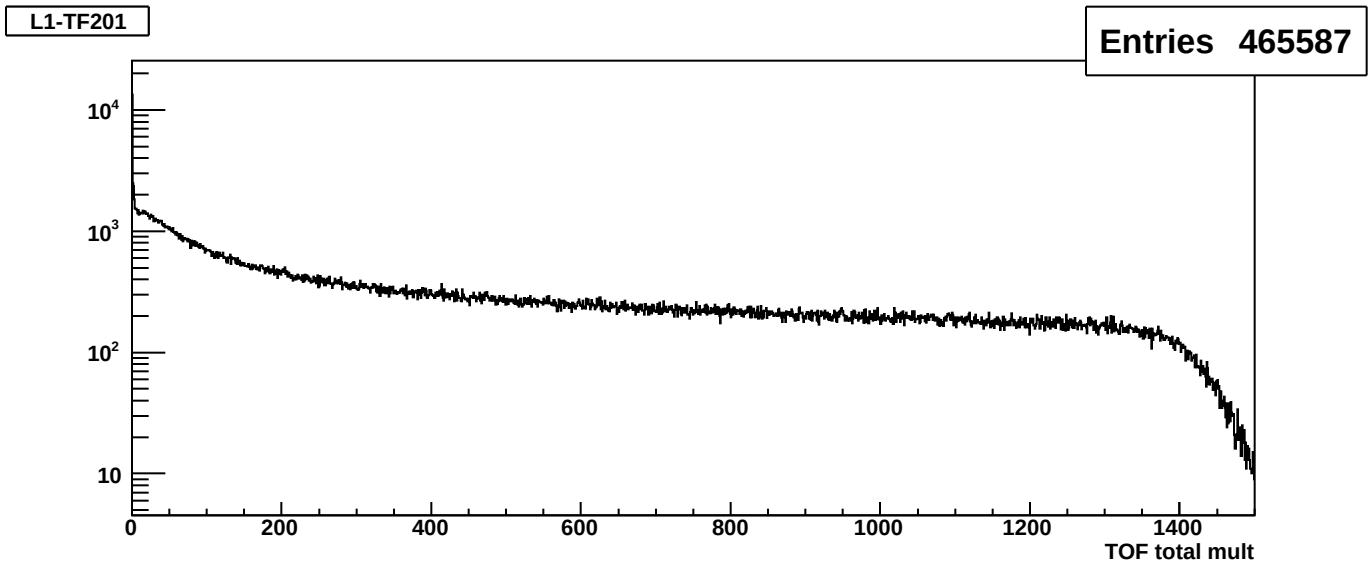

MIX-TF003
Entries 1.955465e+07
TOF MULT
TOF tray

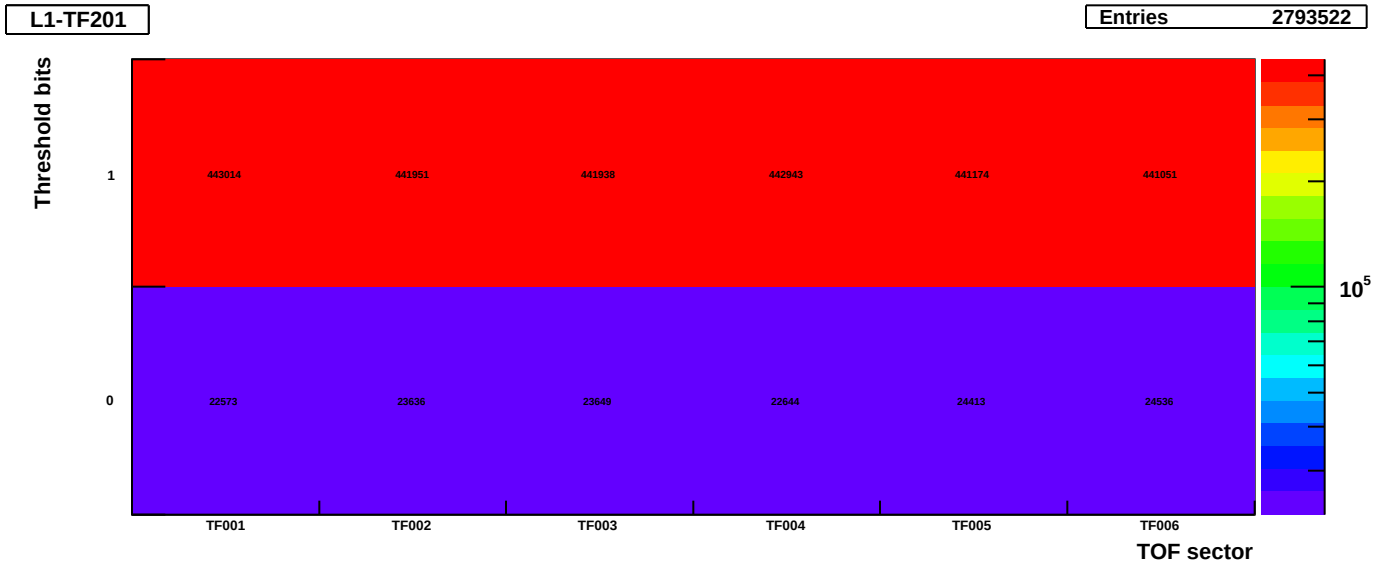

MIX-TF004
Entries 1.955465e+07
TOF MULT
TOF tray

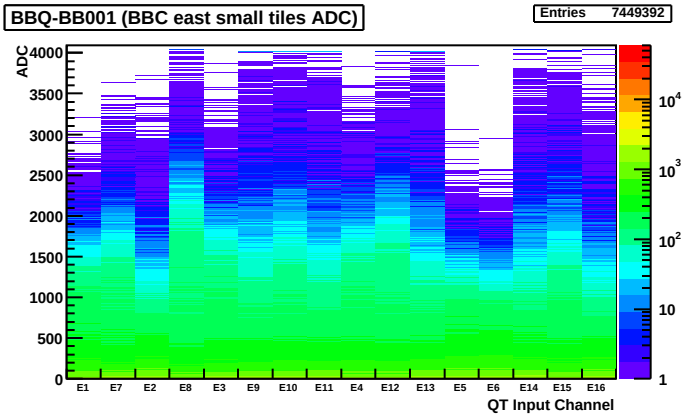

MIX-TF005
Entries 1.955465e+07
TOF MULT
TOF tray

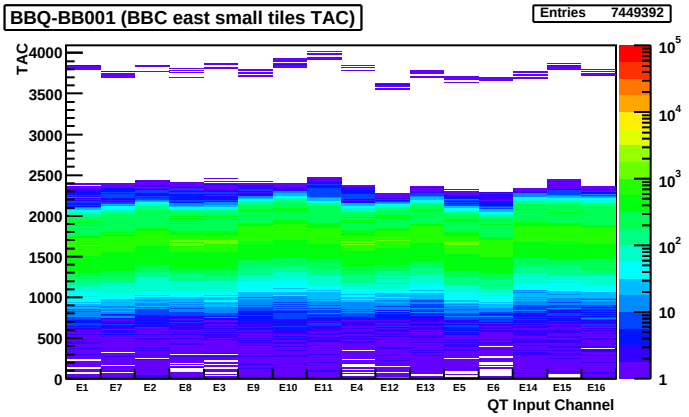

MIX-TF006
Entries 1.955465e+07
TOF MULT
TOF tray

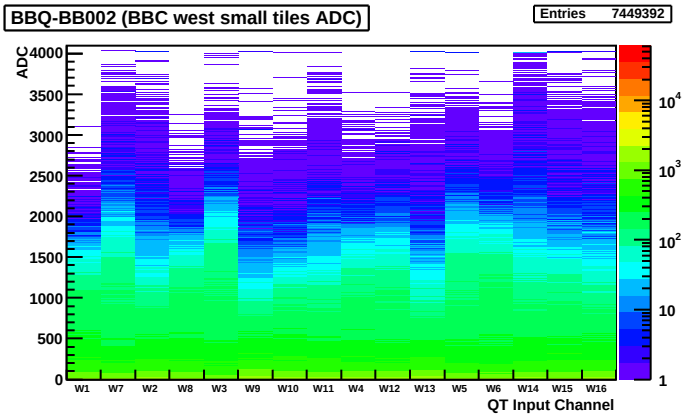

MIX-TF101
Entries 2793522
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

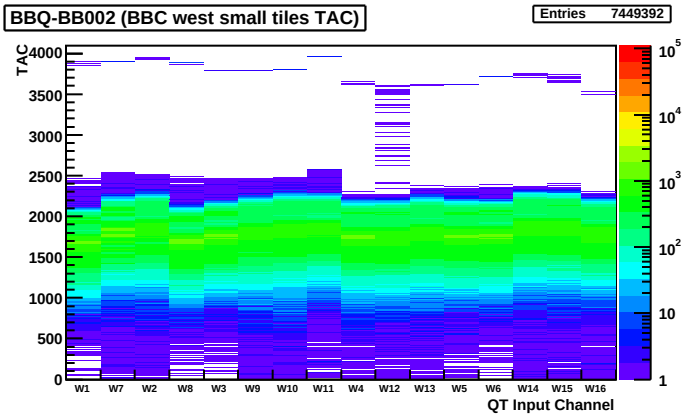

L1-TF201
Entries 465587
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

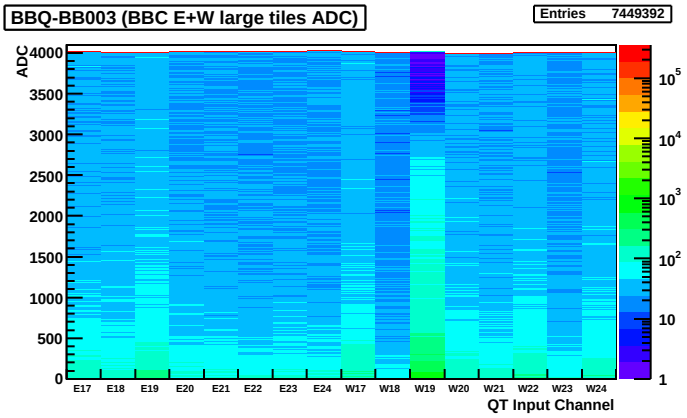

L1-TF201
Entries 2793522
Threshold bits
1
0
443014
441951
441938
442943
441174
441051
22573
23636
23649
22644
24413
24536
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

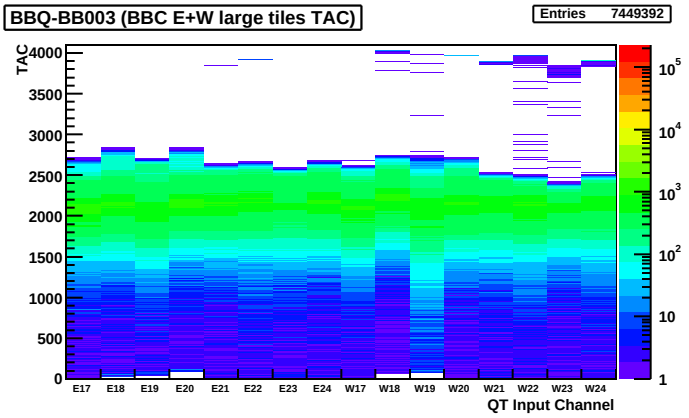

BBQ-BB001 (BBC east small tiles ADC)
Entries 7449392
ADC
QT Input Channel

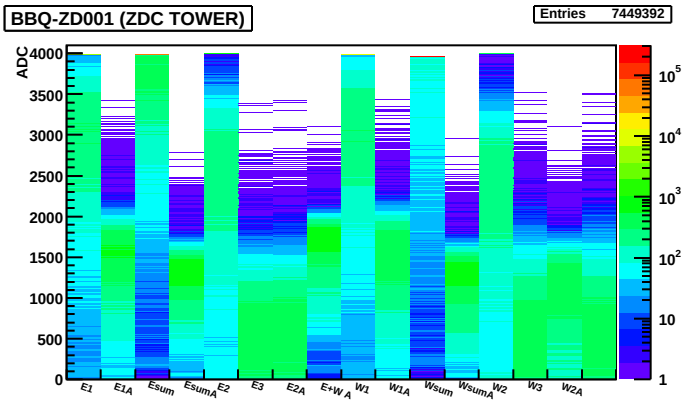

BBQ-BB001 (BBC east small tiles TAC)
Entries 7449392
TAC
QT Input Channel

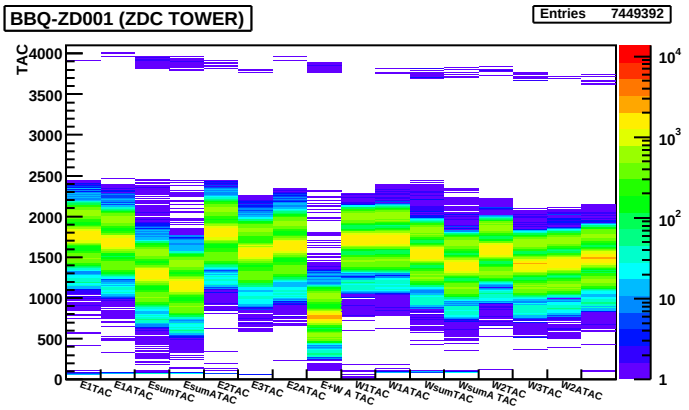

BBQ-BB002 (BBC west small tiles ADC)
Entries 7449392
ADC
QT Input Channel

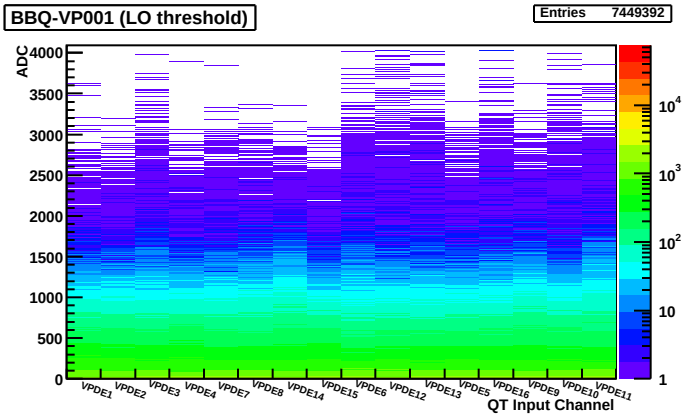

BBQ-BB002 (BBC west small tiles TAC)
Entries 7449392
TAC
QT Input Channel

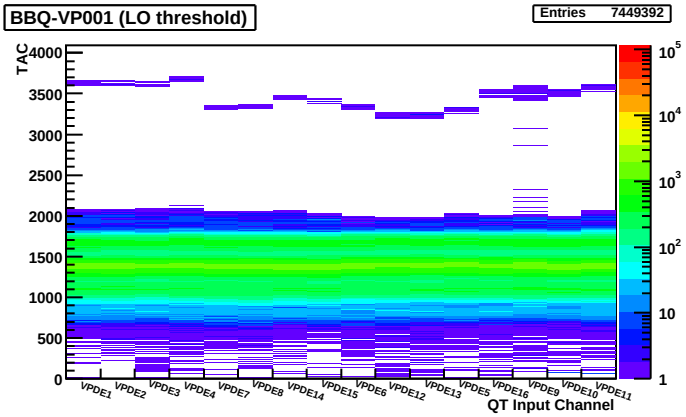

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 7449392
ADC
QT Input Channel

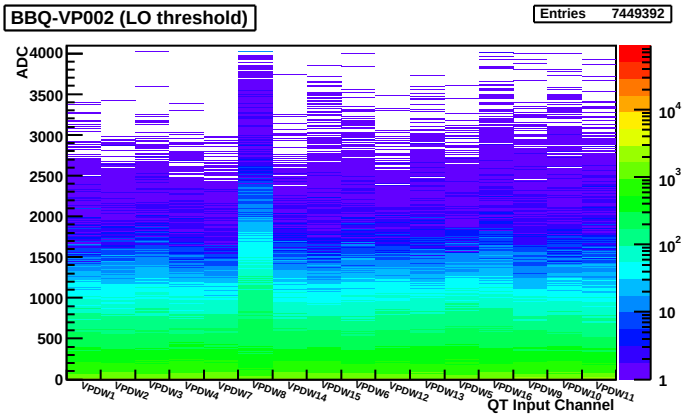

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 7449392
TAC
QT Input Channel

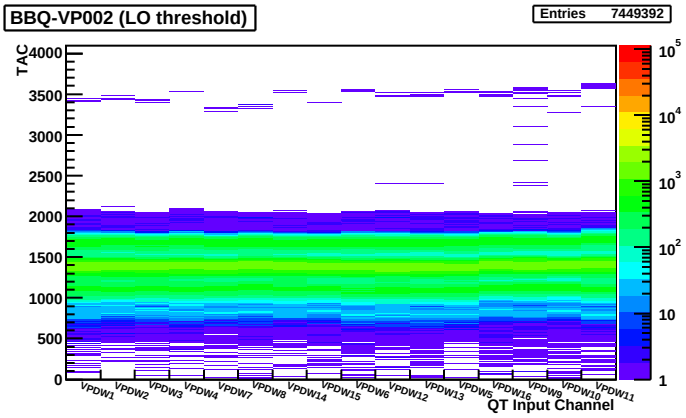

BBQ-ZD001 (ZDC TOWER)
Entries 7449392
ADC

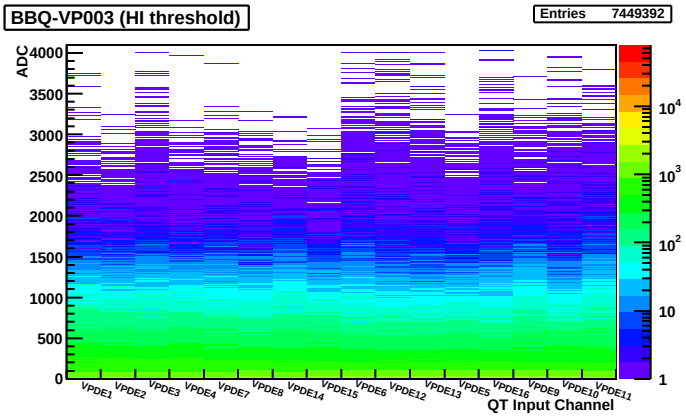

BBQ-ZD001 (ZDC TOWER)
Entries 7449392
TAC

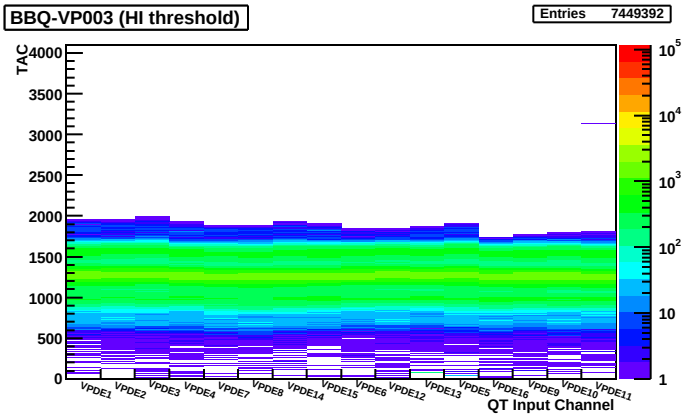

BBQ-VP001 (LO threshold)
Entries 7449392
ADC
QT Input Channel

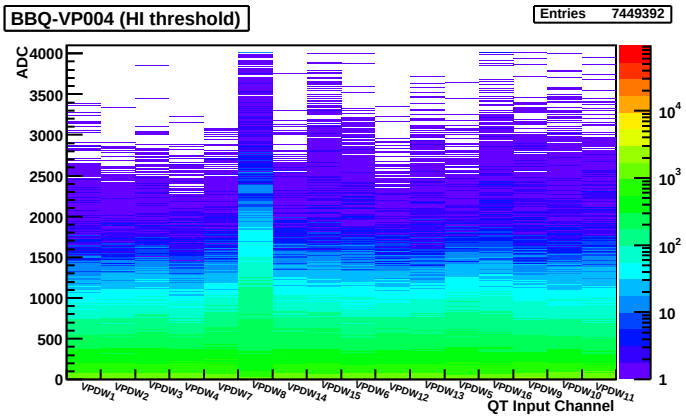

BBQ-VP001 (LO threshold)
Entries 7449392
TAC
QT Input Channel

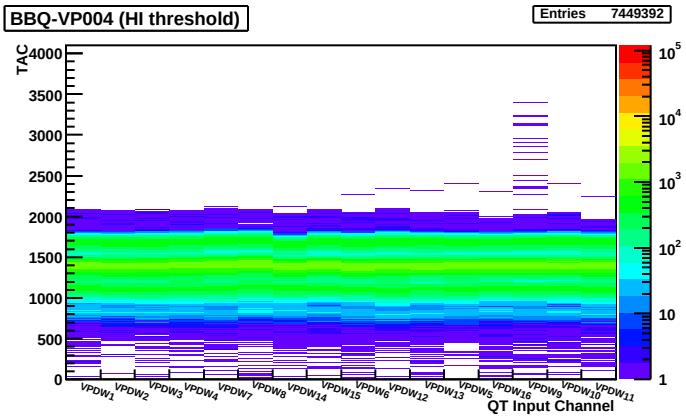

BBQ-VP002 (LO threshold)
Entries 7449392
ADC
QT Input Channel

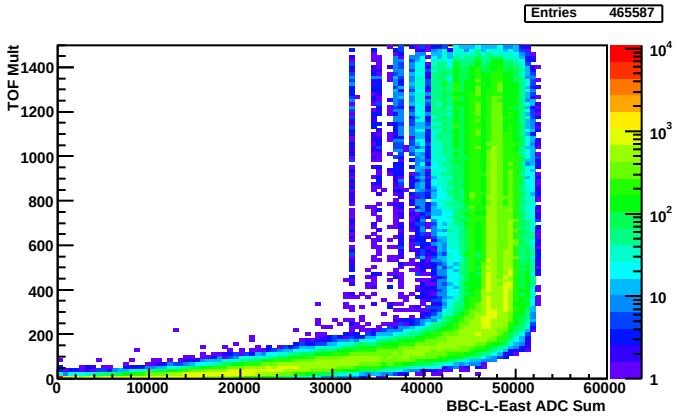

BBQ-VP002 (LO threshold)
Entries 7449392
TAC
QT Input Channel

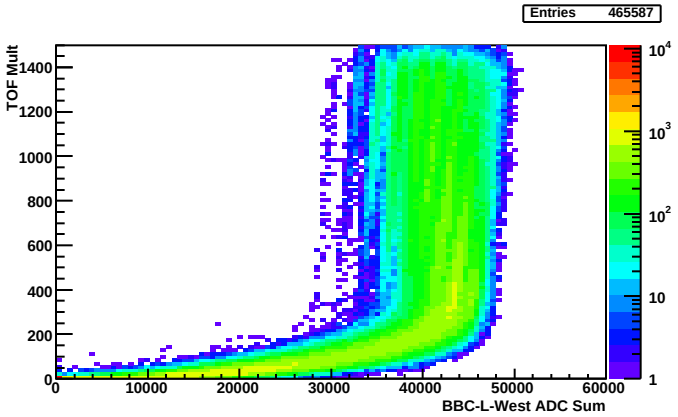

BBQ-VP003 (HI threshold)
Entries 7449392
ADC
QT Input Channel

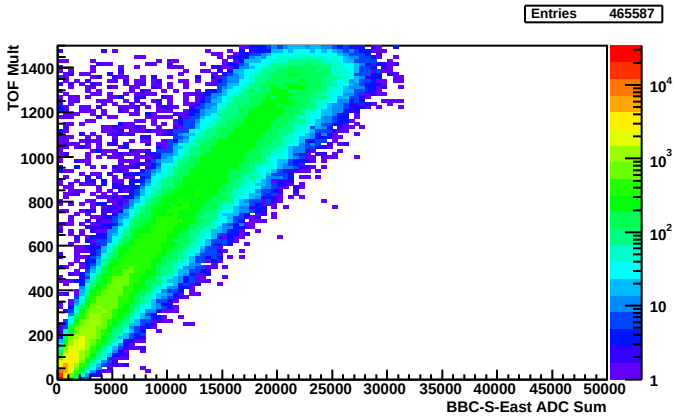

BBQ-VP003 (HI threshold)
Entries 7449392
TAC
QT Input Channel

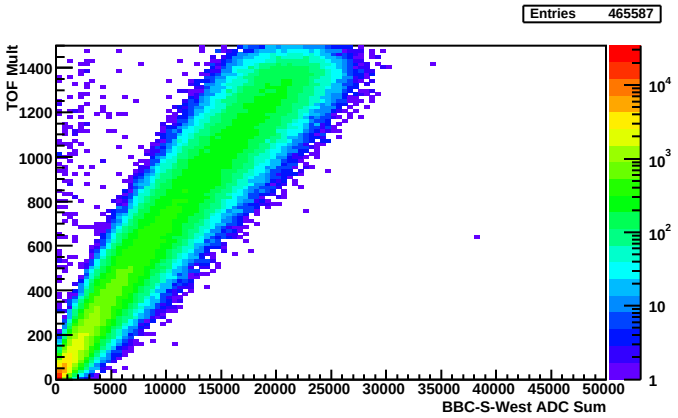

BBQ-VP004 (HI threshold)
Entries 7449392
ADC
QT Input Channel

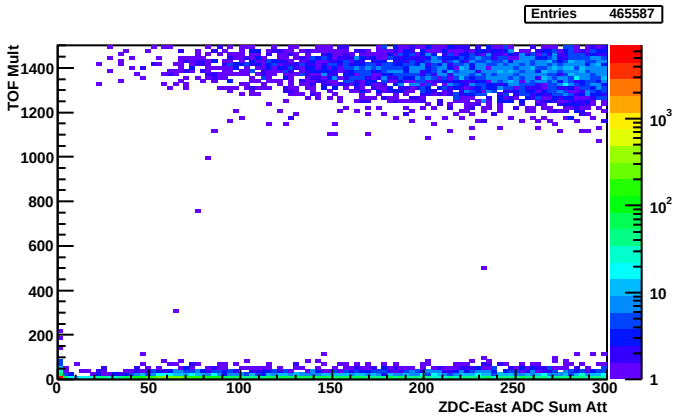

BBQ-VP004 (HI threshold)
Entries 7449392
TAC
QT Input Channel

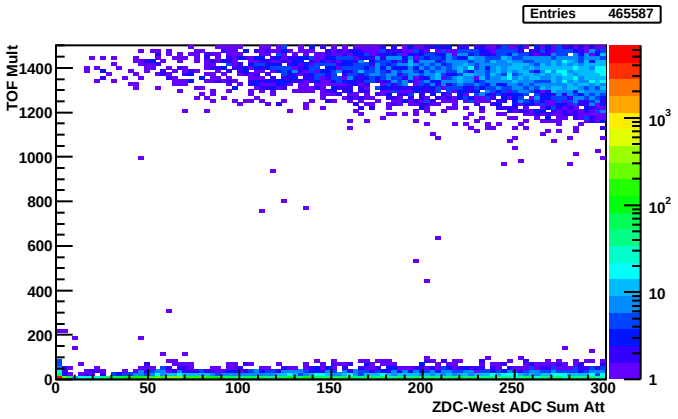

Entries 465587
TOF Mult
BBC-L-East ADC Sum

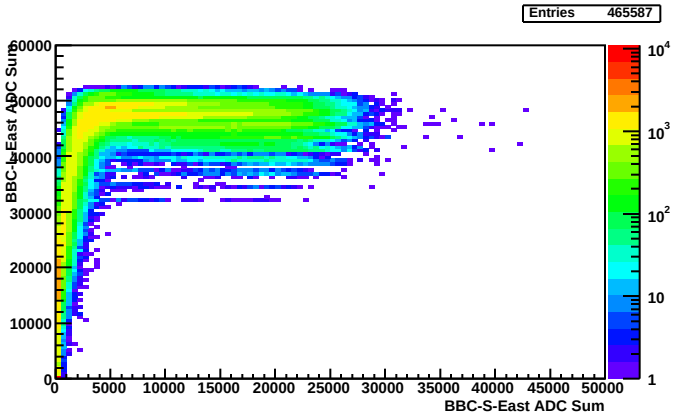

Entries 465587
TOF Mult
BBC-L-West ADC Sum

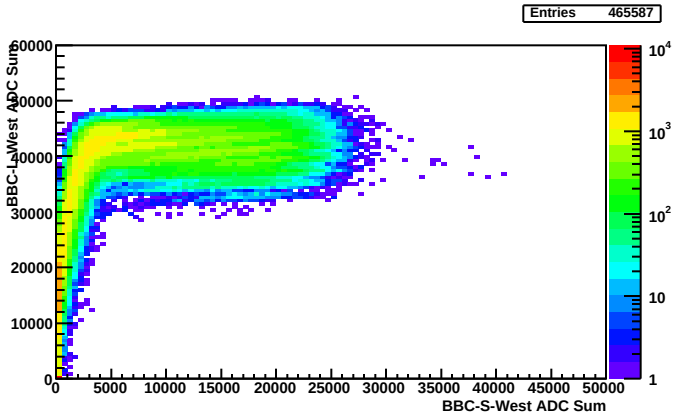

Entries 465587
TOF Mult
BBC-S-East ADC Sum

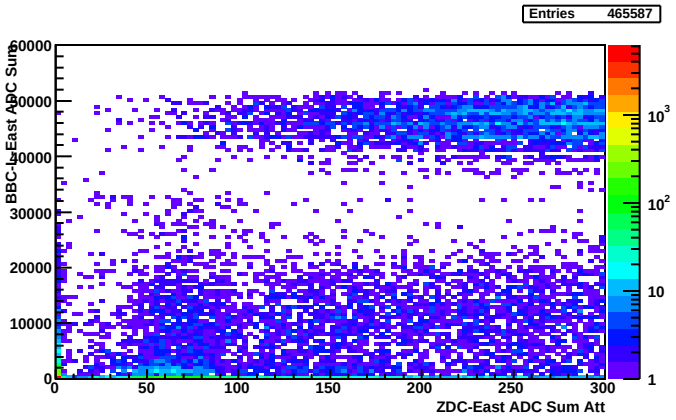

Entries 465587
TOF Mult
BBC-S-West ADC Sum

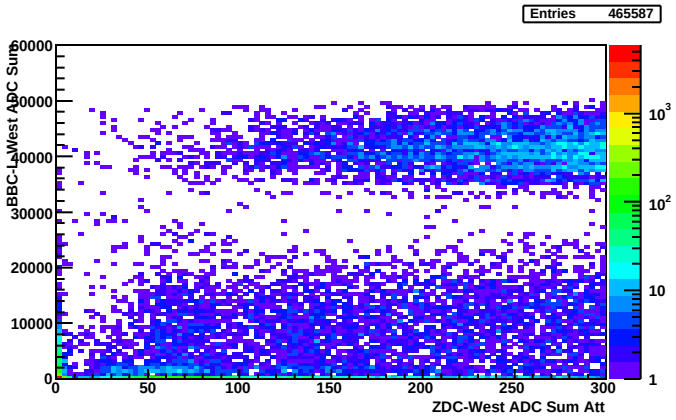

Entries 465587
TOF Mult
ZDC-East ADC Sum Att


Entries 465587
TOF Mult
ZDC-West ADC Sum Att


Entries 465587
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 465587
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 465587
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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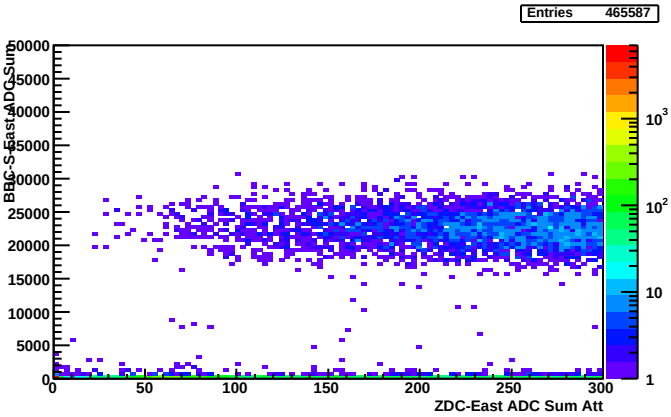
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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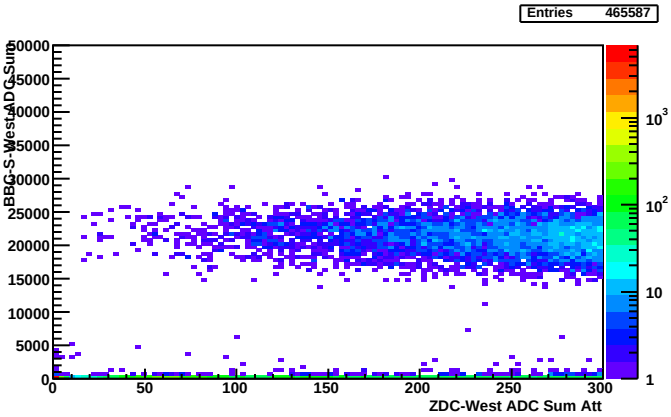
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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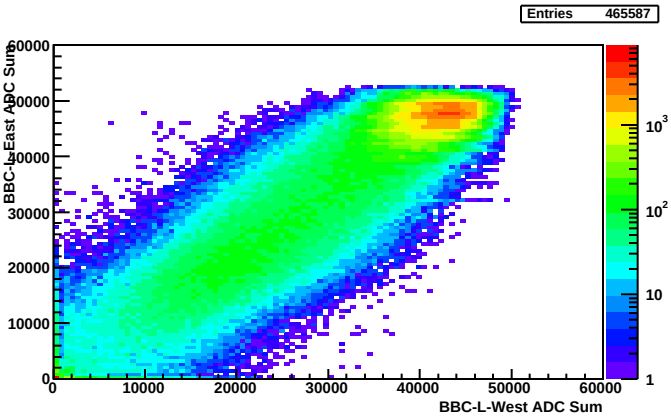
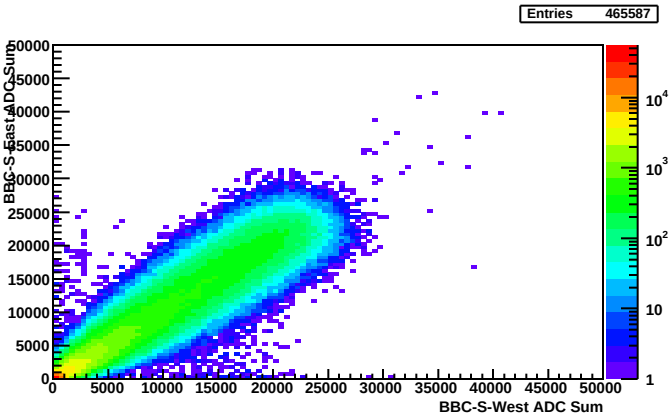
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 465587
BBC-L-East ADC Sum
BBC-L-West ADC Sum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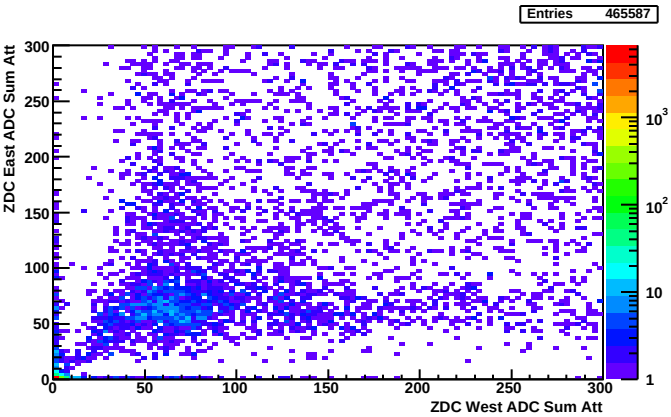
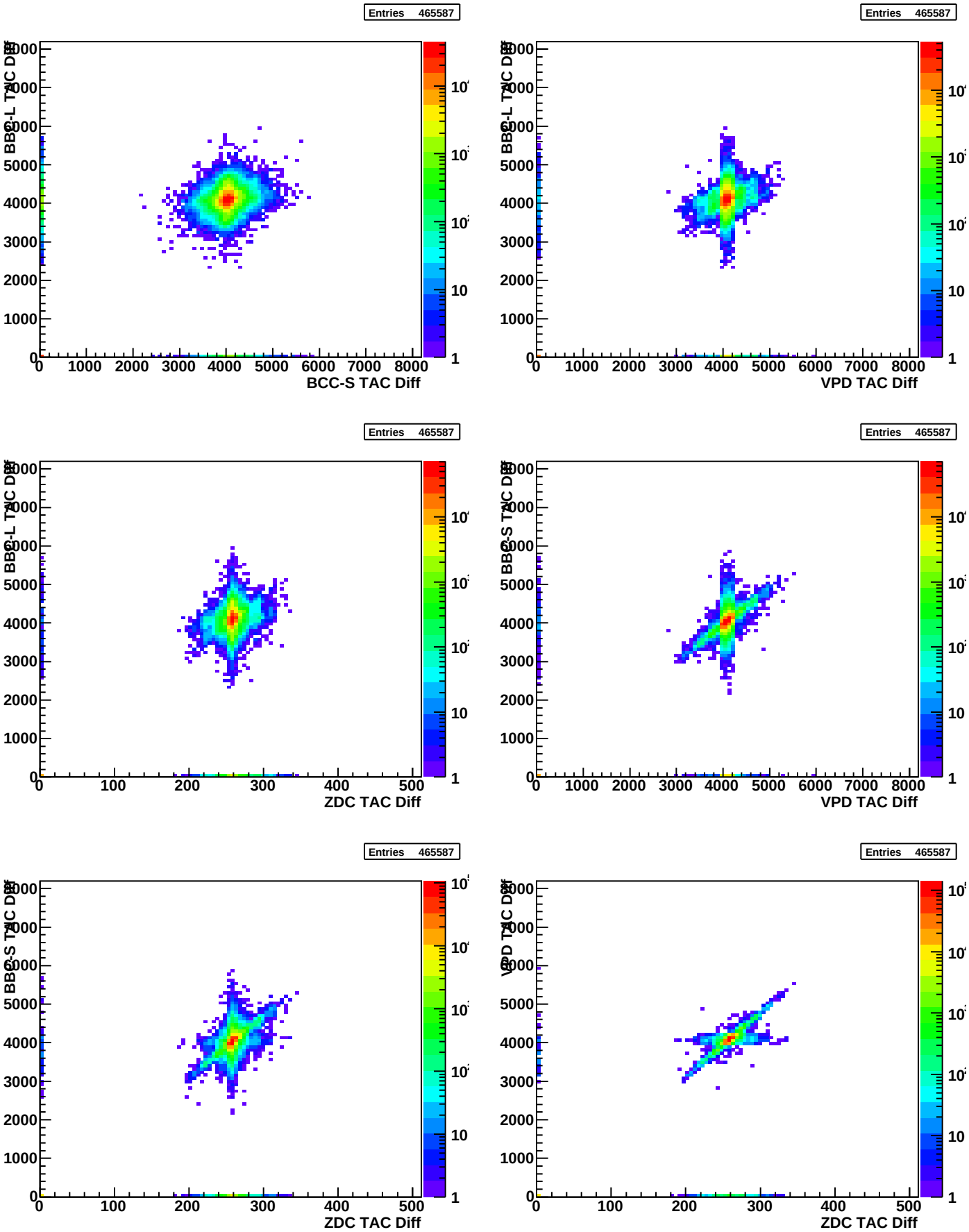
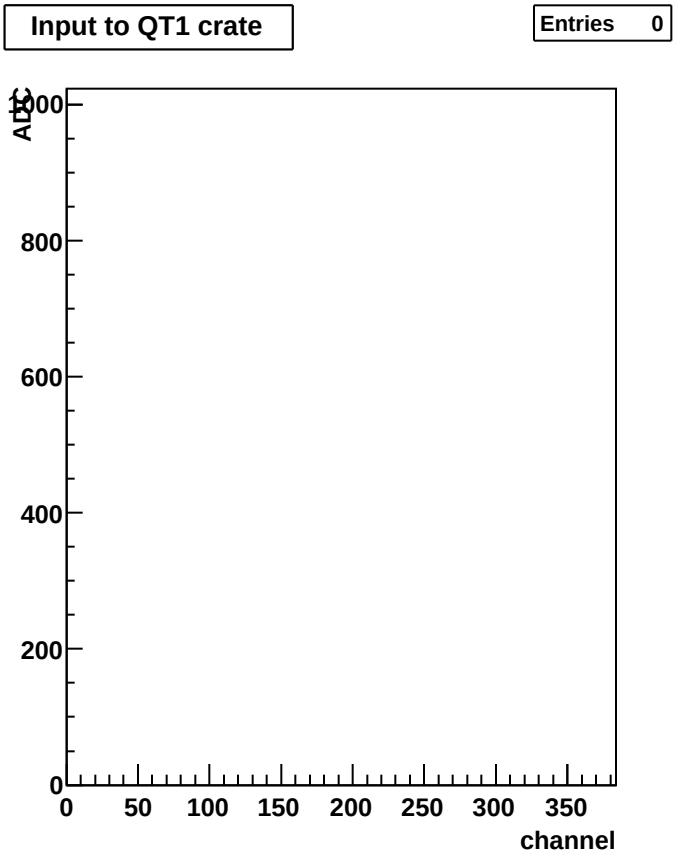
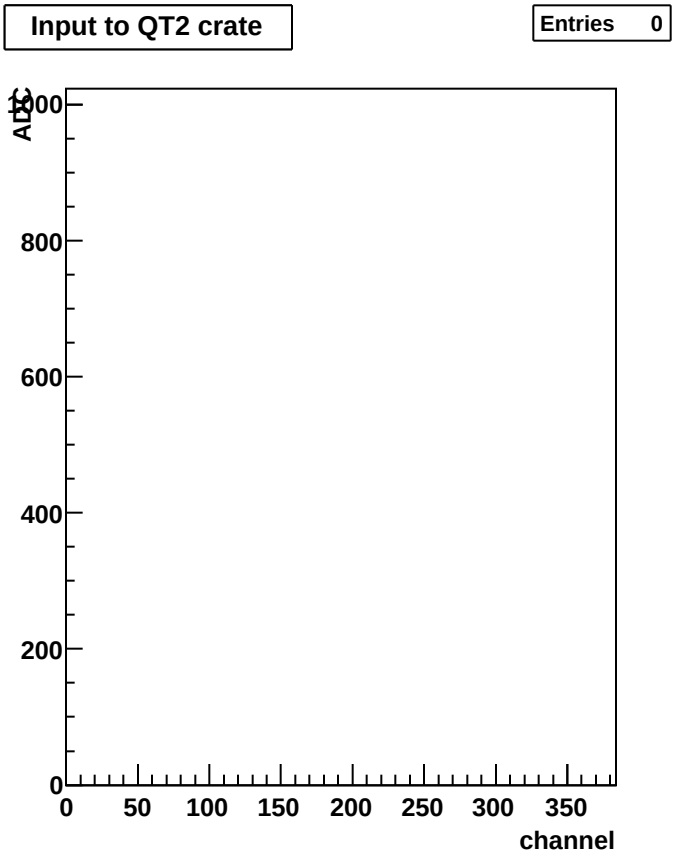
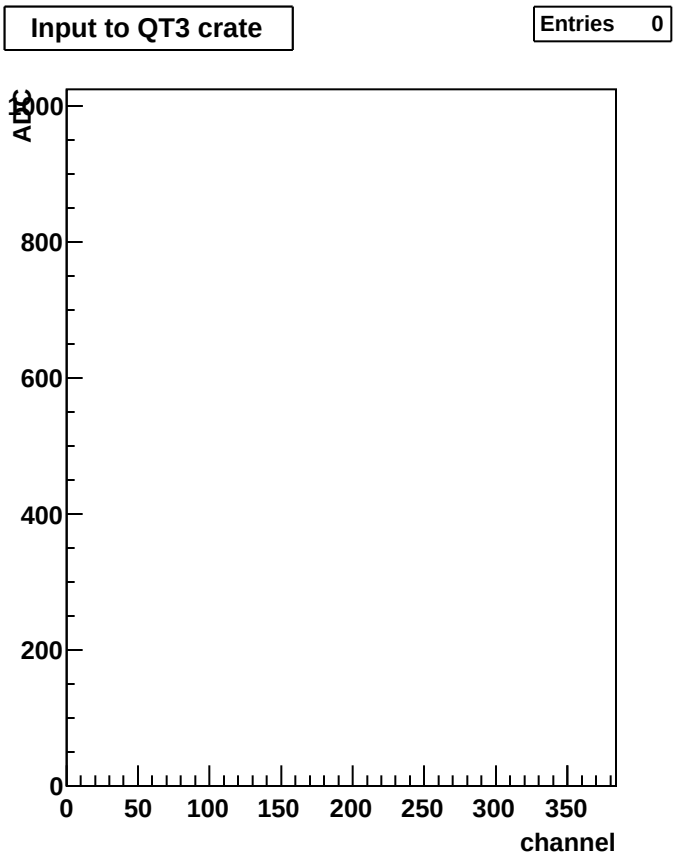
BBC-S-East ADC Sum
BBC-S-West ADC Sum

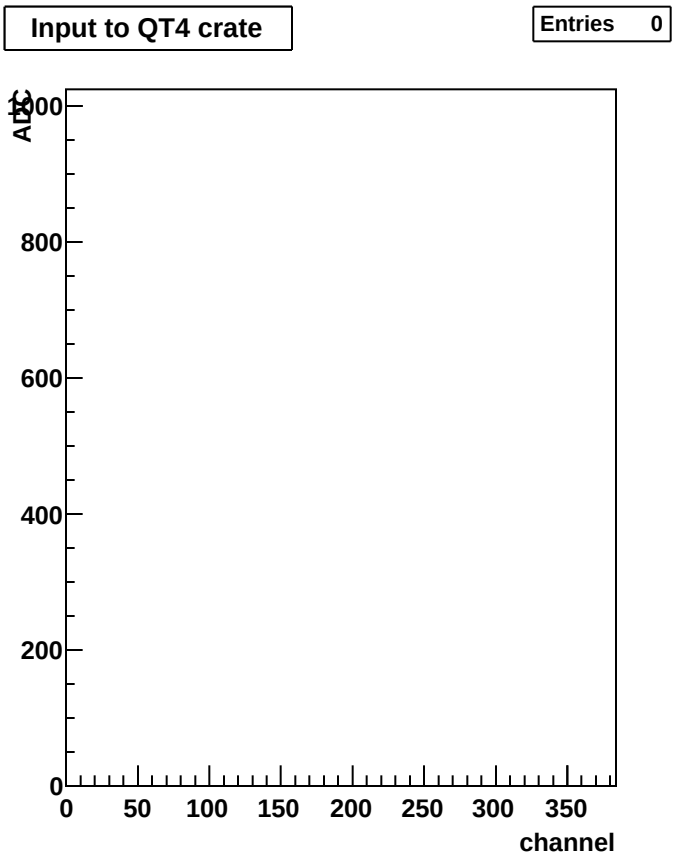

Entries 465587
ZDC East ADC Sum Att
ZDC West ADC Sum Att

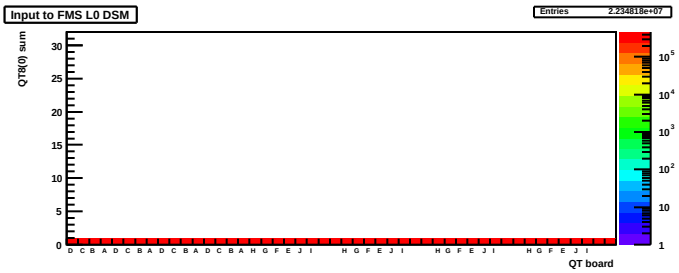

Entries 465587
BBC-L TAC Diff
BCC-S TAC Diff
Entries 465587
BBC-L TAC Diff
VPD TAC Diff
Entries 465587
BBC-L TAC Diff
ZDC TAC Diff
Entries 465587
BBC-S TAC Diff
VPD TAC Diff
Entries 465587
BBC-S TAC Diff
ZDC TAC Diff
Entries 465587
VPD TAC Diff
ZDC TAC Diff

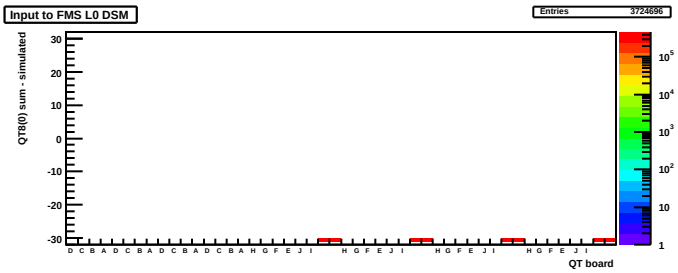

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

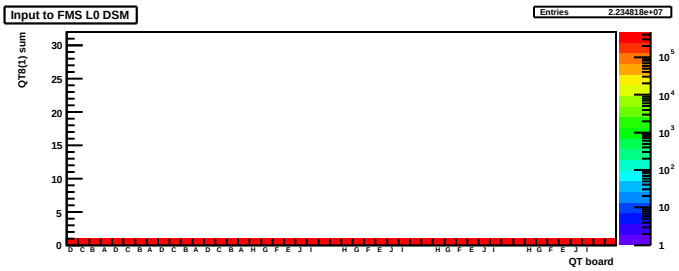

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

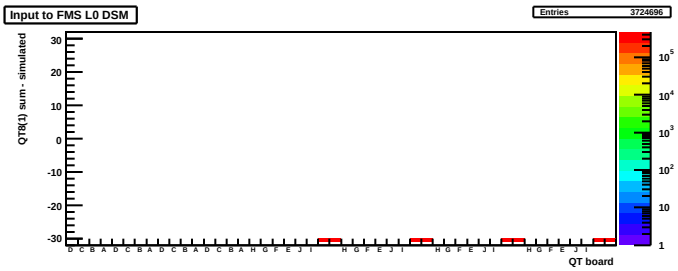

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

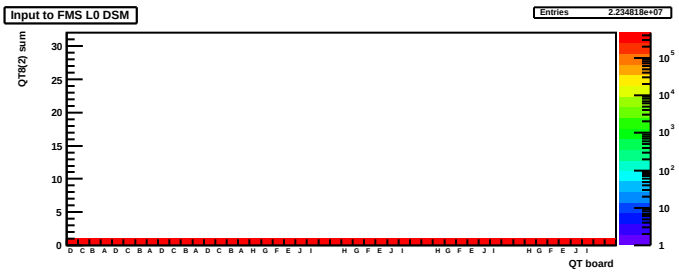

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

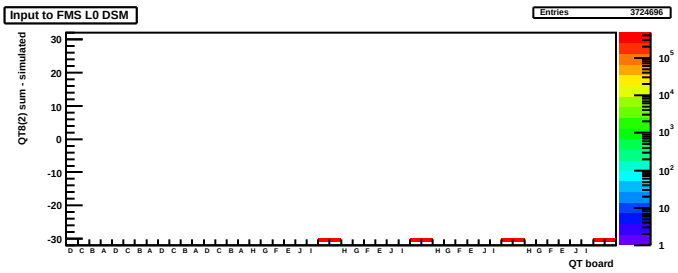

Input to FMS L0 DSM
Entries 2.234818e+07
QT8(0) sum
QT board

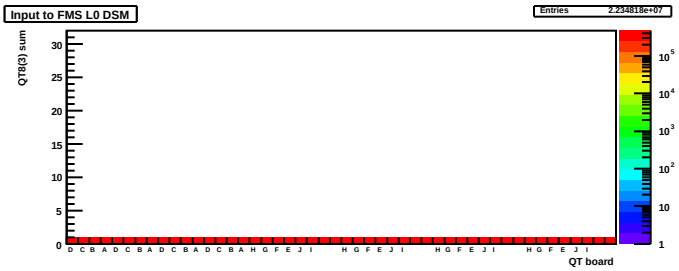

Input to FMS L0 DSM
Entries 3724696
QT8(0) sum - simulated
QT board

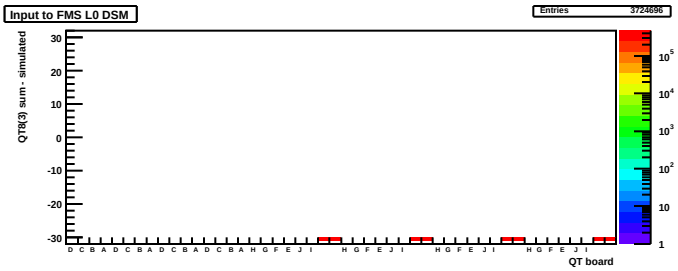

Input to FMS L0 DSM
Entries 2.234818e+07
QT8(1) sum
QT board

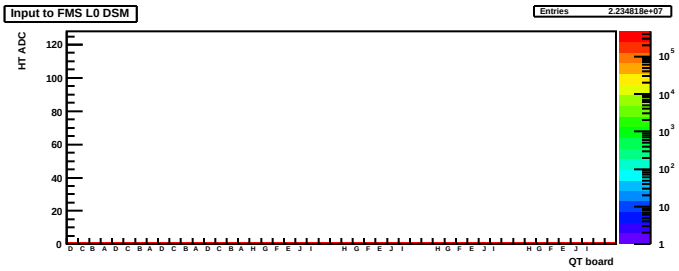

Input to FMS L0 DSM
Entries 3724696
QT8(1) sum - simulated
QT board

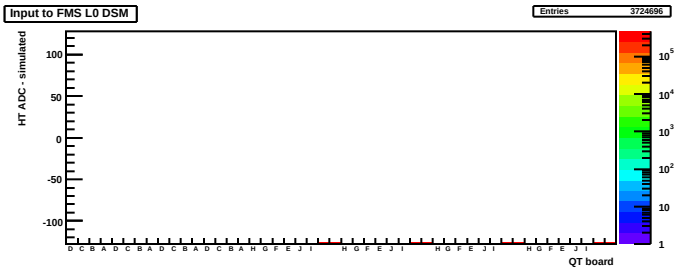

Input to FMS L0 DSM
Entries 2.234818e+07
QT8(2) sum
QT board

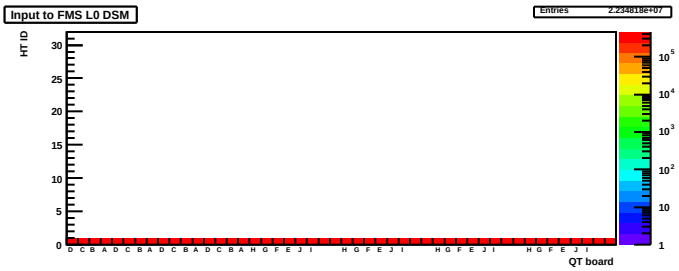

Input to FMS L0 DSM
Entries 3724696
QT8(2) sum - simulated
QT board

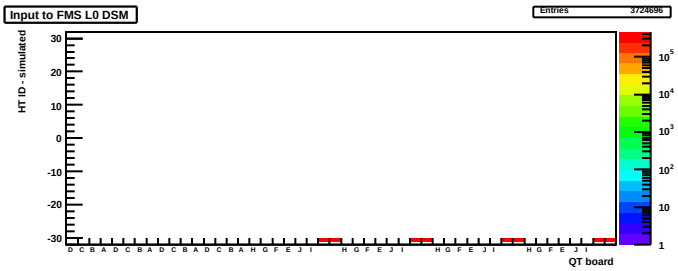

Input to FMS L0 DSM
Entries 2.234818e+07
QT8(3) sum
QT board

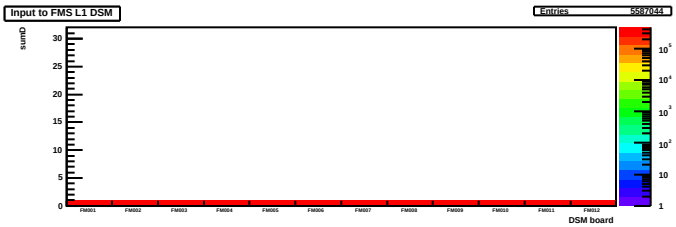

Input to FMS L0 DSM
Entries 3724696
QT8(3) sum - simulated
QT board

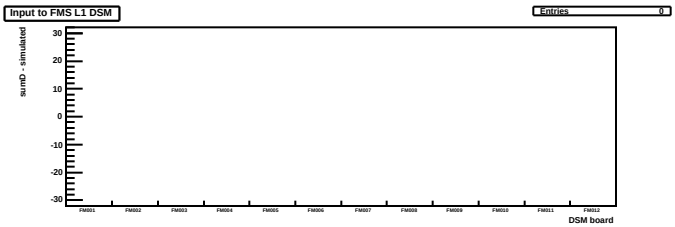

Input to FMS L0 DSM
Entries 2.234818e+07
HT ADC
QT board

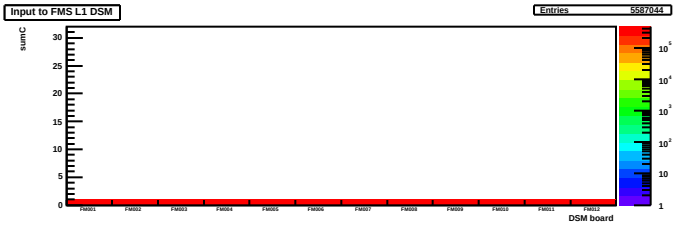

Input to FMS L0 DSM
Entries 3724696
HT ADC - simulated
QT board

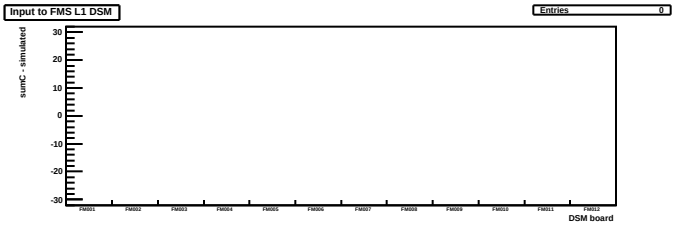

Input to FMS L0 DSM
Entries 2.234818e+07
HT ID
QT board

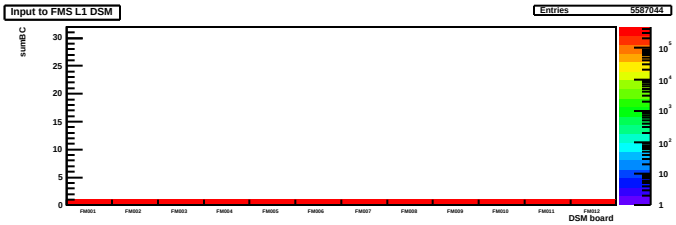

Input to FMS L0 DSM
Entries 3724696
HT ID - simulated
QT board

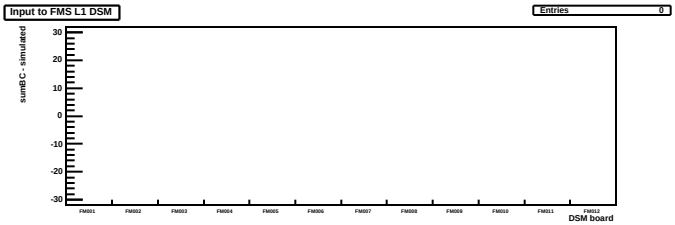

Input to FMS L1 DSM
Entries 5587044
sumD
DSM board

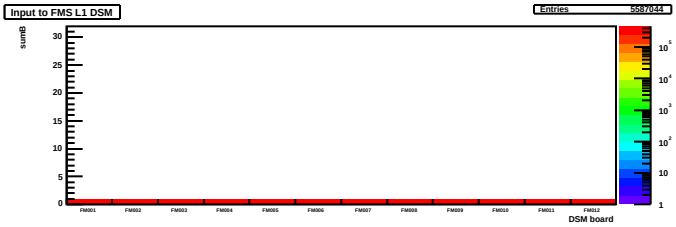

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

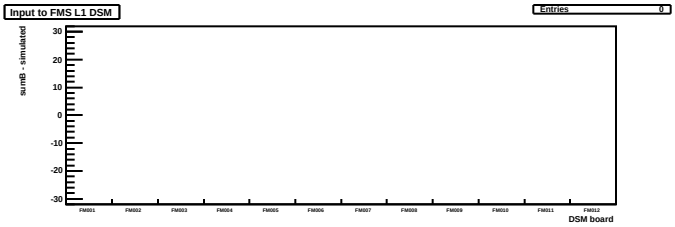

Input to FMS L1 DSM
Entries 5587044
sumC
DSM board

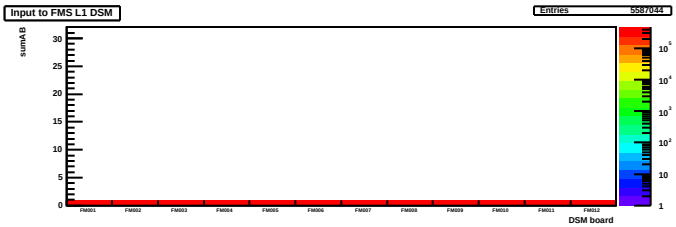

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

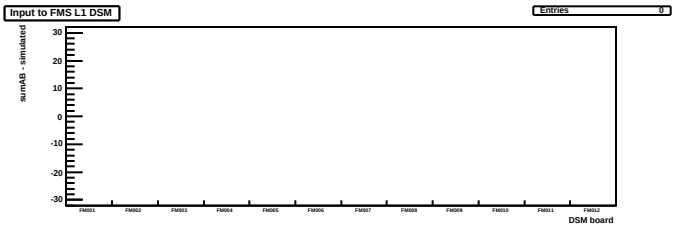

Input to FMS L1 DSM
Entries 5587044
sumBC
DSM board

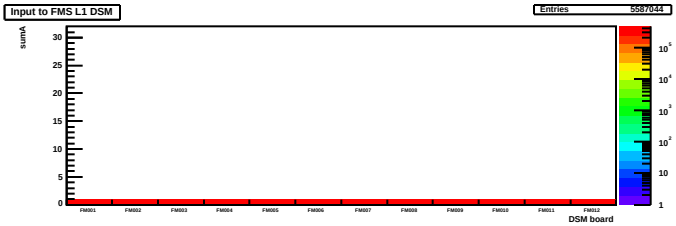

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

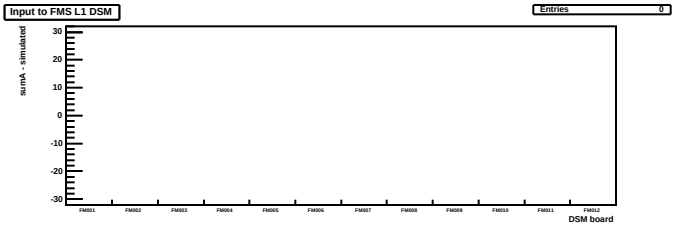

Input to FMS L1 DSM
Entries 5587044
sumB
DSM board

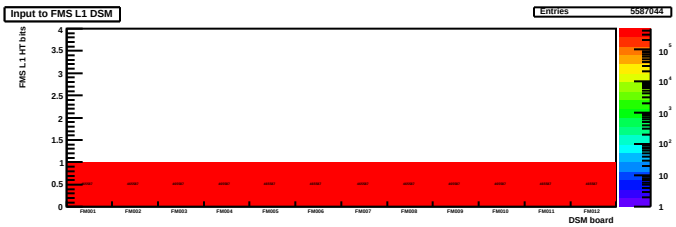

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

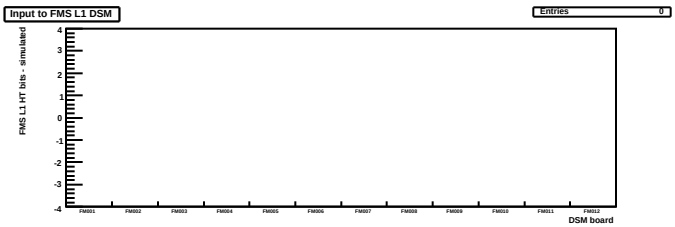

Input to FMS L1 DSM
Entries 5587044
sumAB
DSM board

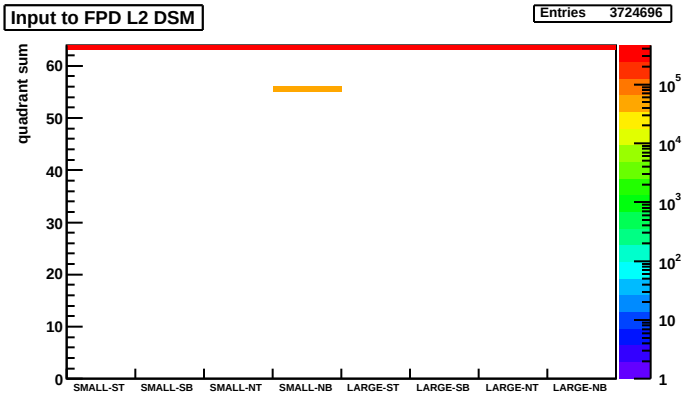

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

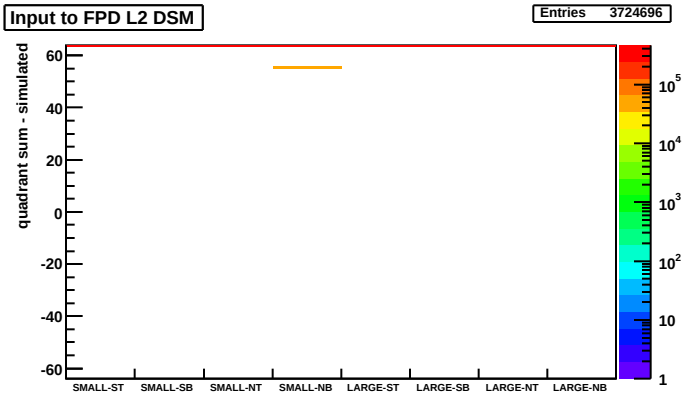

Input to FMS L1 DSM
Entries 5587044
sumA
DSM board

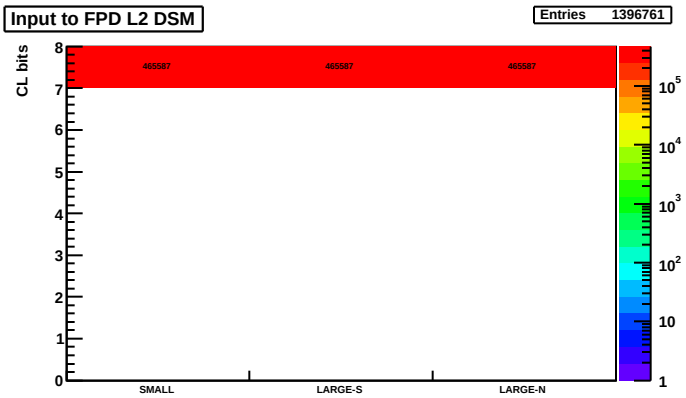

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

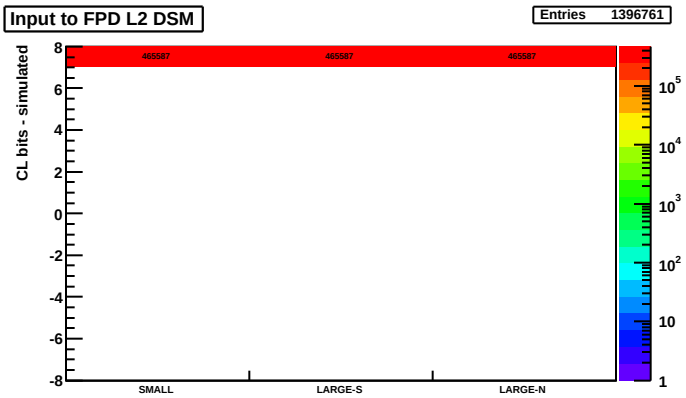

Input to FMS L1 DSM
Entries 5587044
FMS L1 HT bits
DSM board

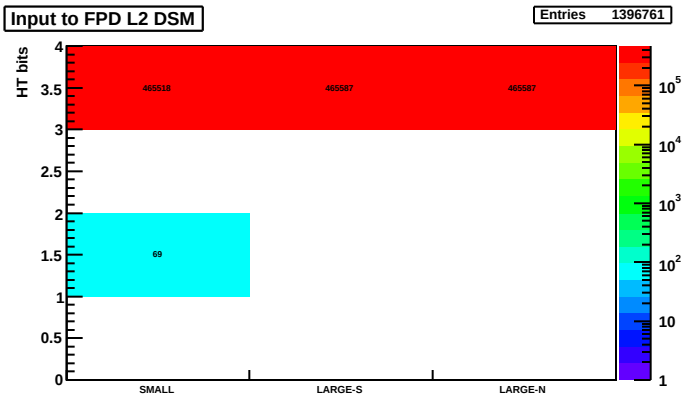

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

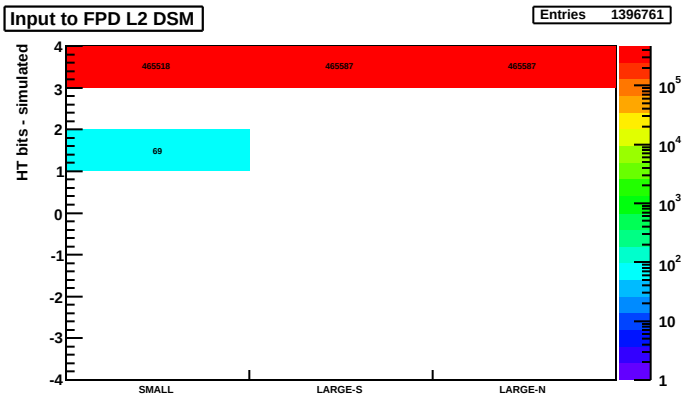

Input to FPD L2 DSM
Entries 3724696
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

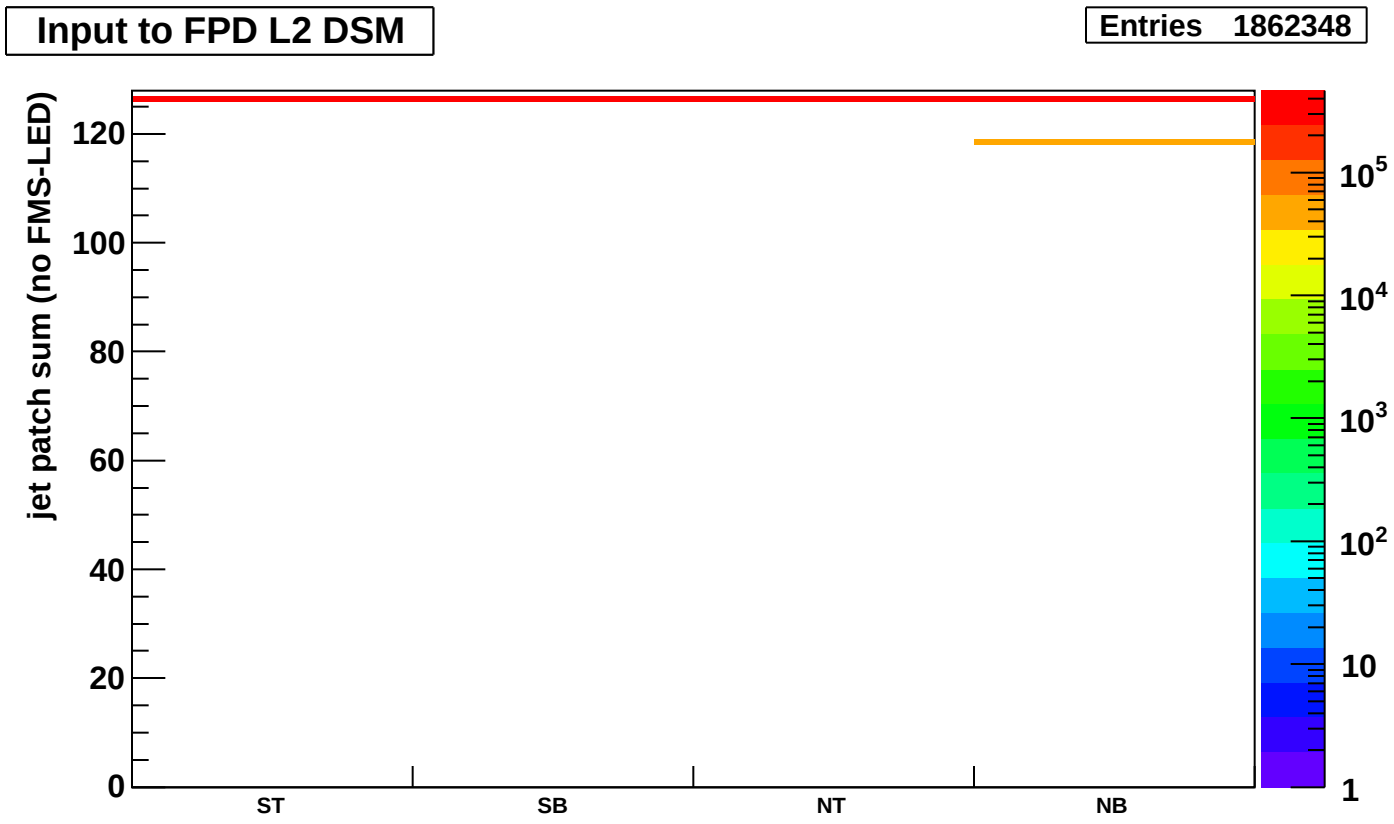

Input to FPD L2 DSM
Entries 3724696
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

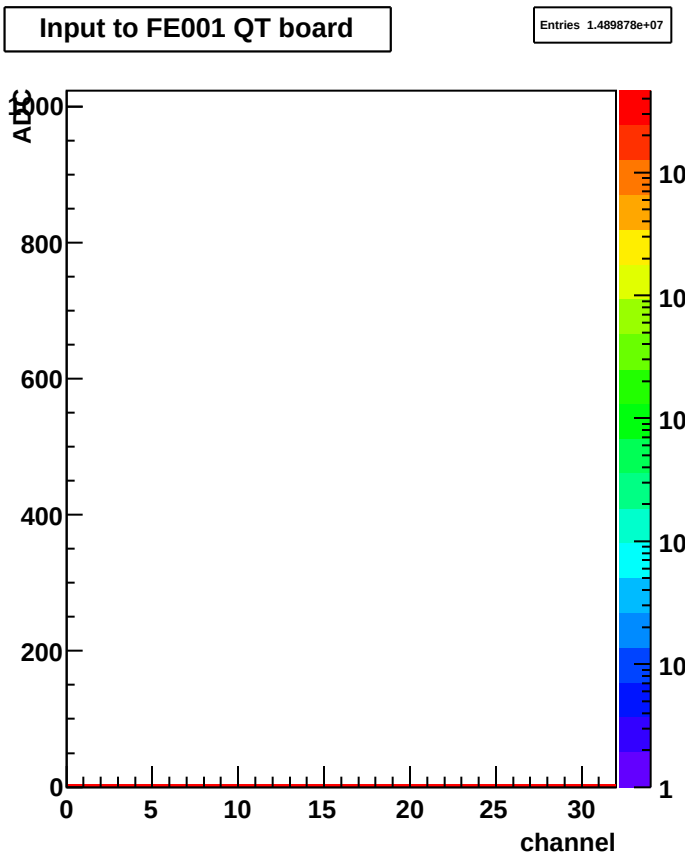

Input to FPD L2 DSM
Entries 1396761
CL bits
465587
465587
465587
SMALL
LARGE-S
LARGE-N

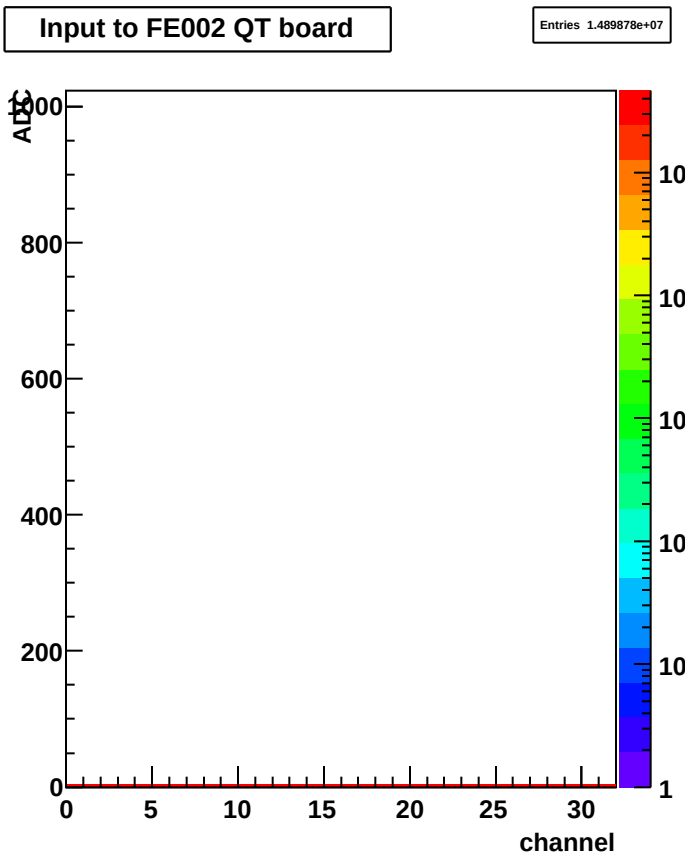

Input to FPD L2 DSM
Entries 1396761
CL bits - simulated
465587
465587
465587
SMALL
LARGE-S
LARGE-N

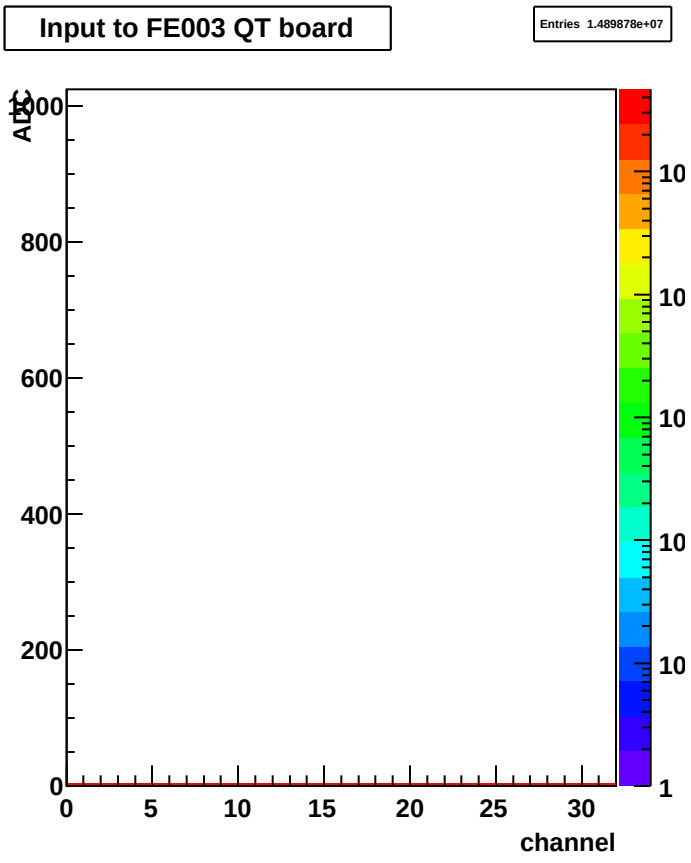

Input to FPD L2 DSM
Entries 1396761
HT bits
465518
465587
465587
69
SMALL
LARGE-S
LARGE-N

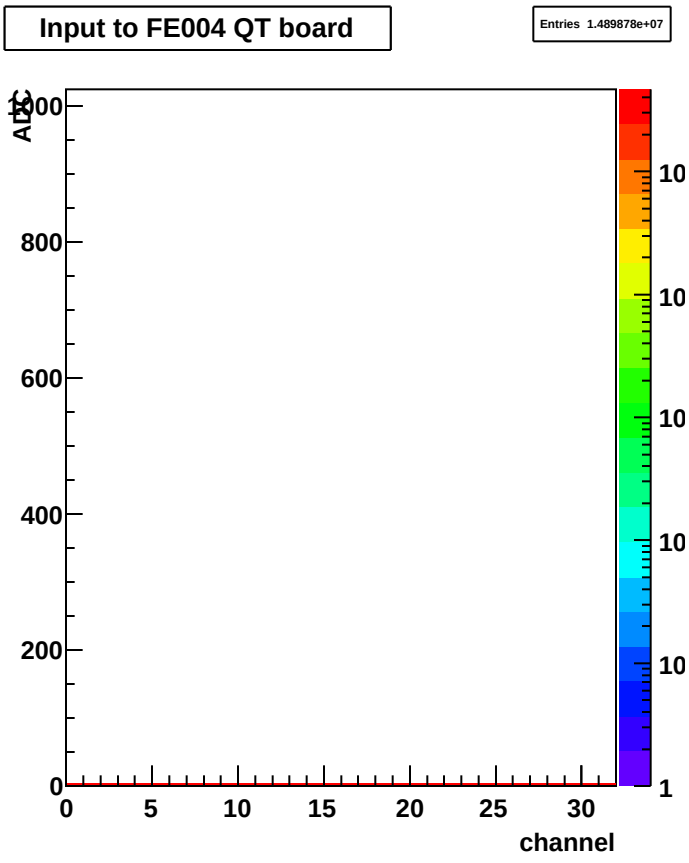

Input to FPD L2 DSM
Entries 1396761
HT bits - simulated
465518
465587
465587
69
SMALL
LARGE-S
LARGE-N

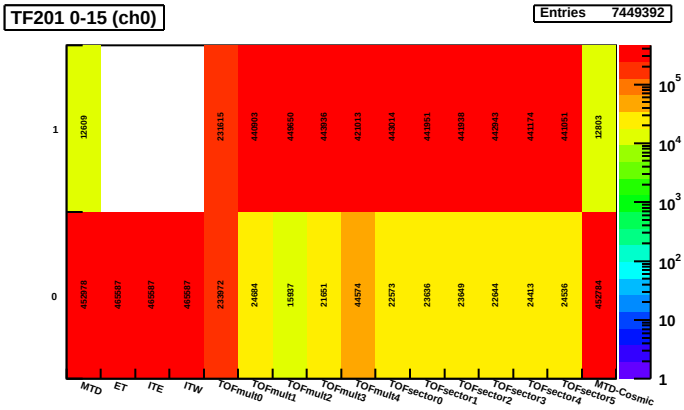

Input to FPD L2 DSM
Entries 1862348
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

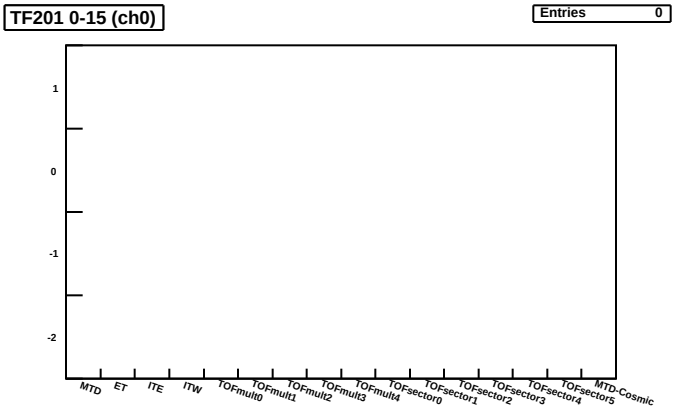

Input to FE001 QT board
Entries 1.489878e+07
ADC
channel

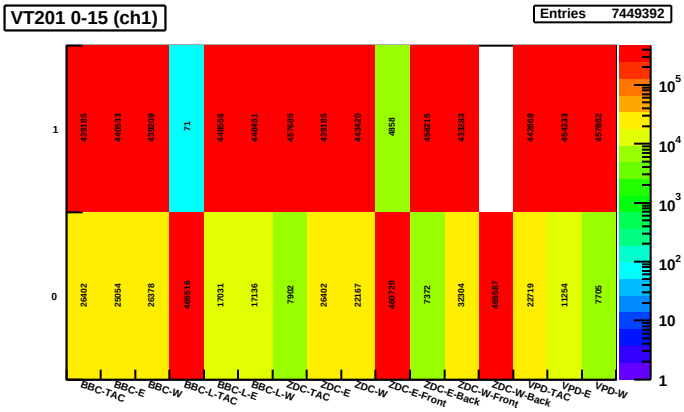

Input to FE002 QT board
Entries 1.489878e+07
ADC
channel

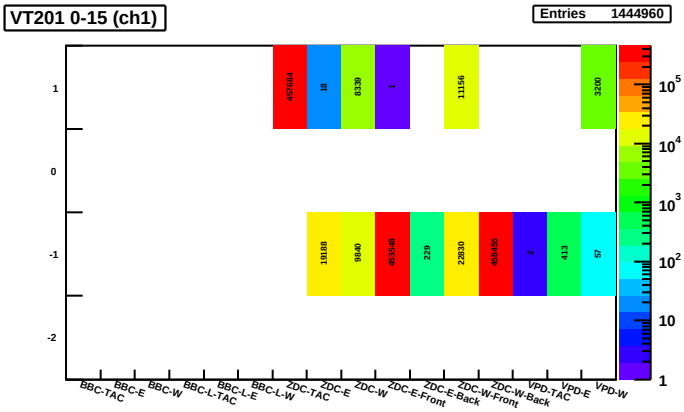

Input to FE003 QT board
Entries 1.489878e+07
ADC
channel

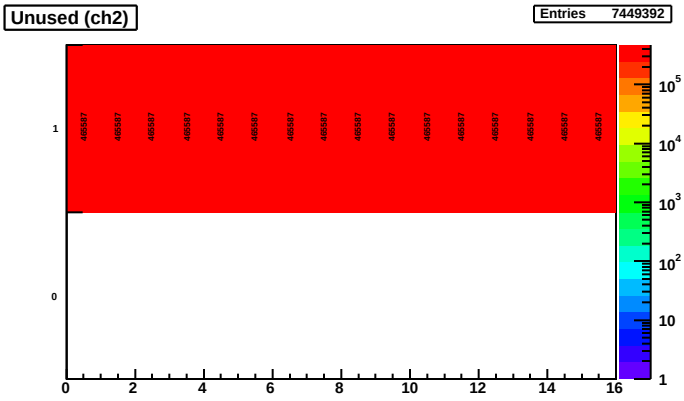

Input to FE004 QT board
Entries 1.489878e+07
ADC
channel

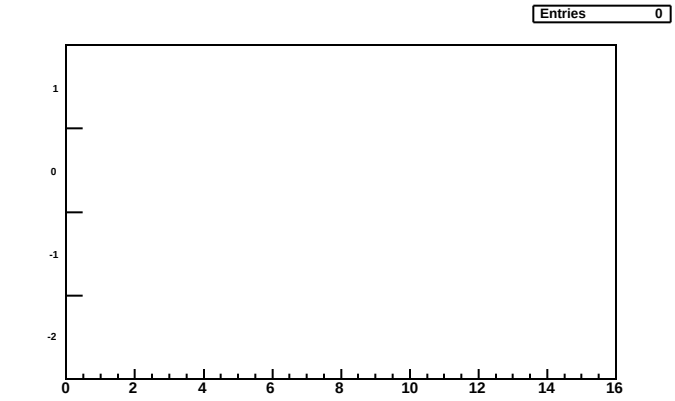

TF201 0-15 (ch0)
Entries 7449392
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

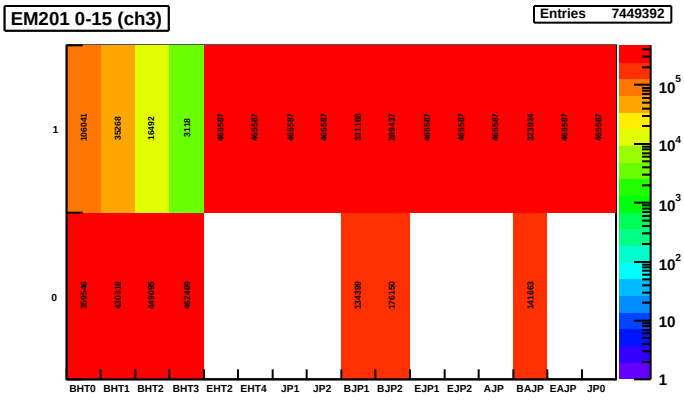

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

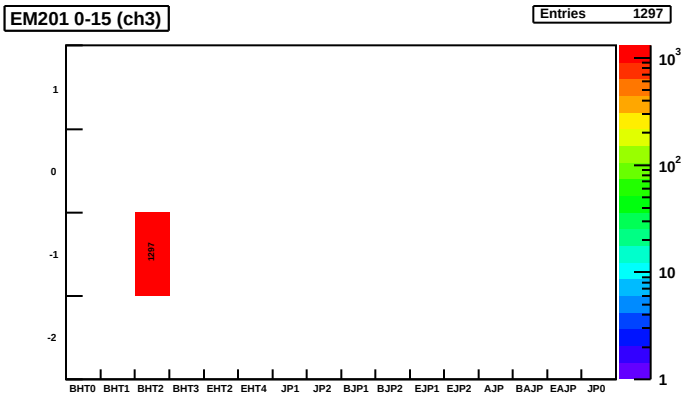

VT201 0-15 (ch1)
Entries 7449392
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1444960
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

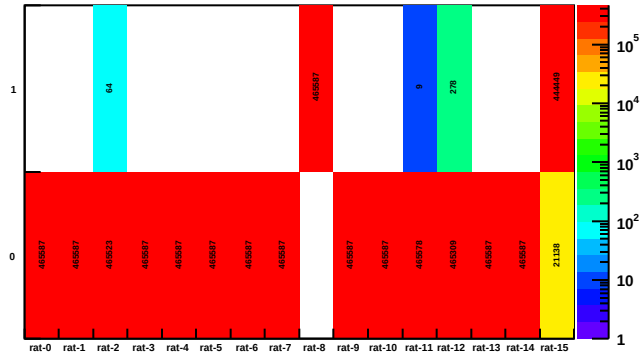

Unused (ch2)
Entries 7449392

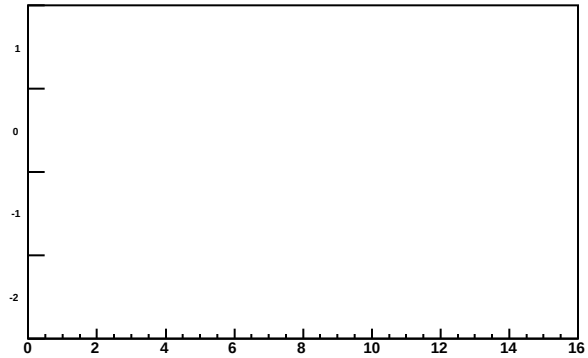

Entries 0


EM201 0-15 (ch3)
Entries 7449392
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

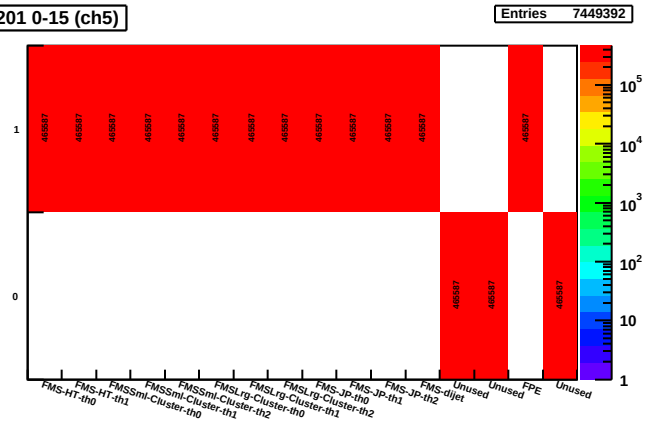

EM201 0-15 (ch3)
Entries 1297
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

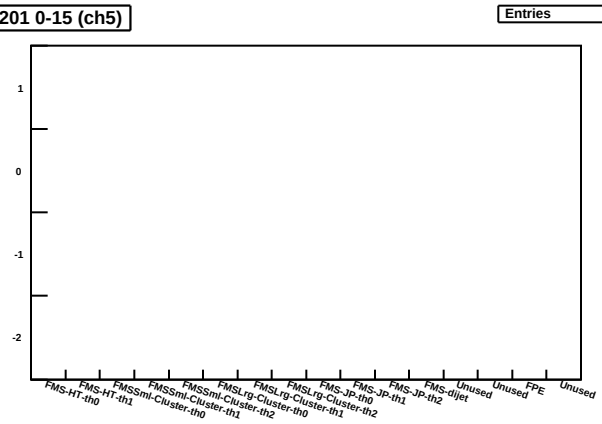




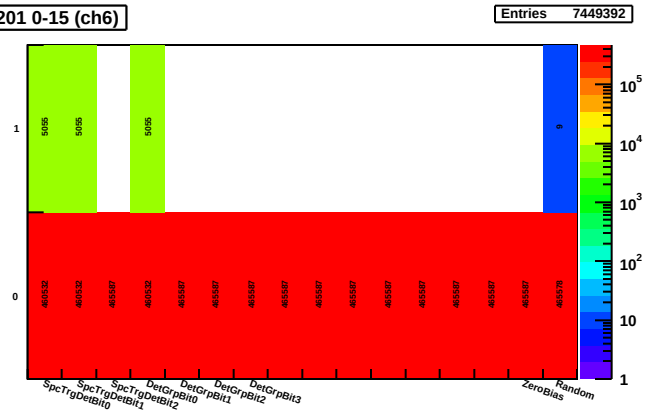
FP201 0-15 (ch5)

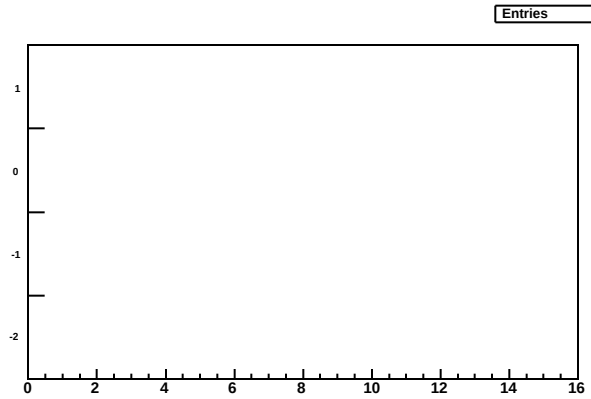
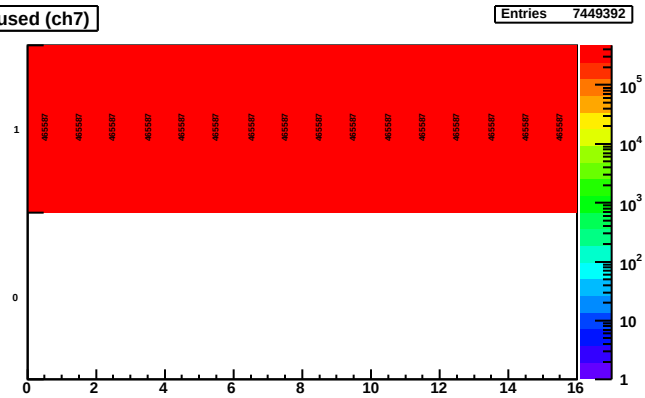
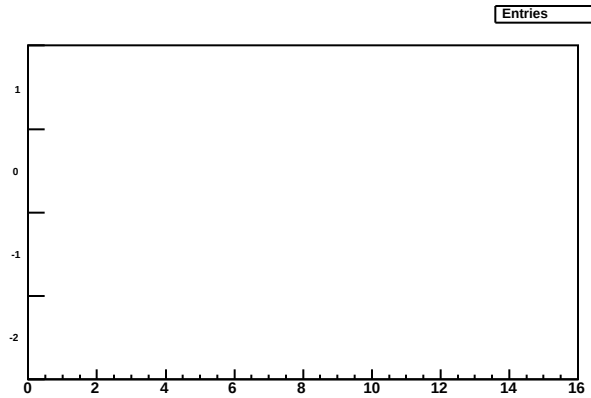


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)