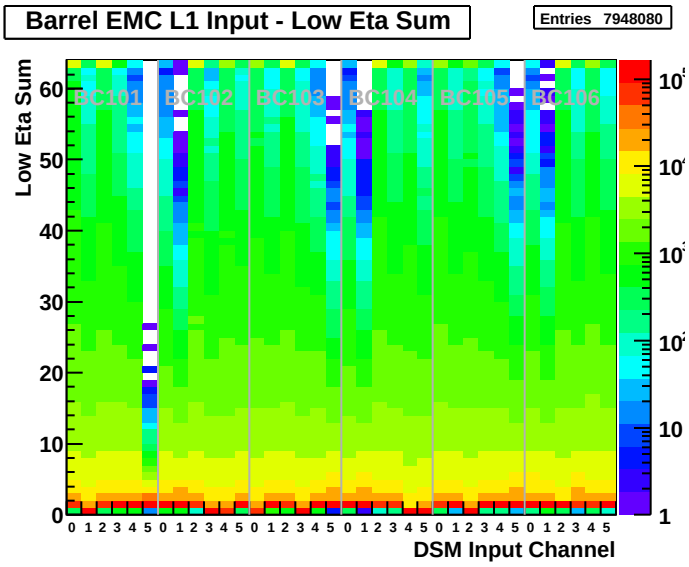
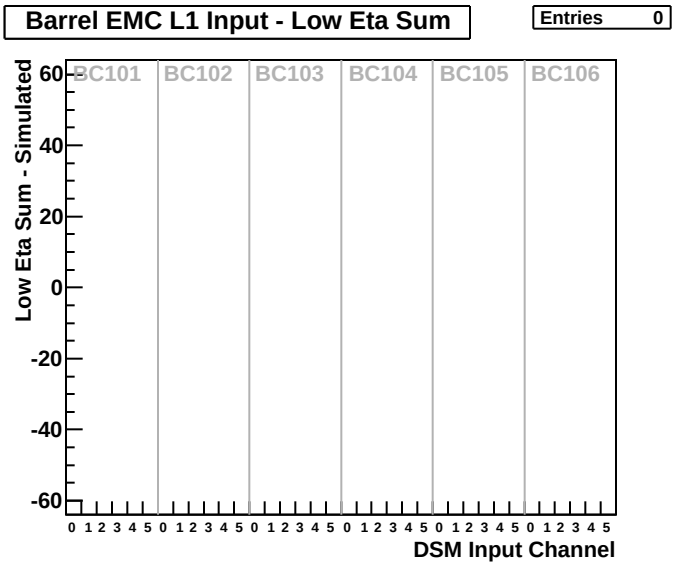
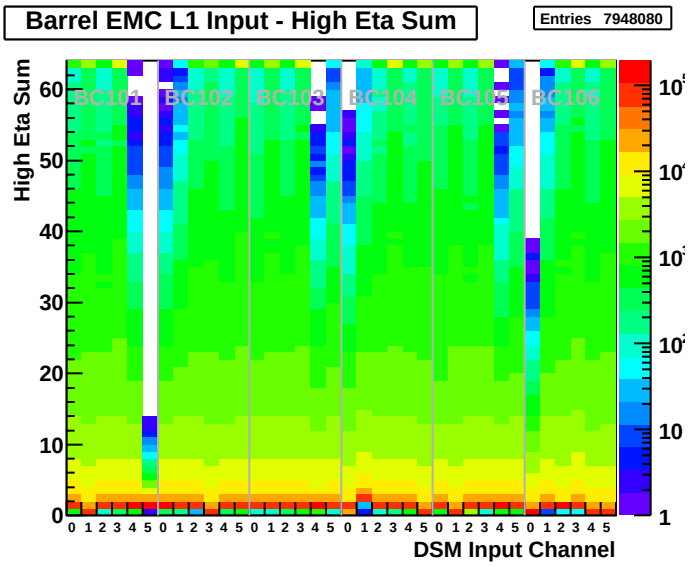
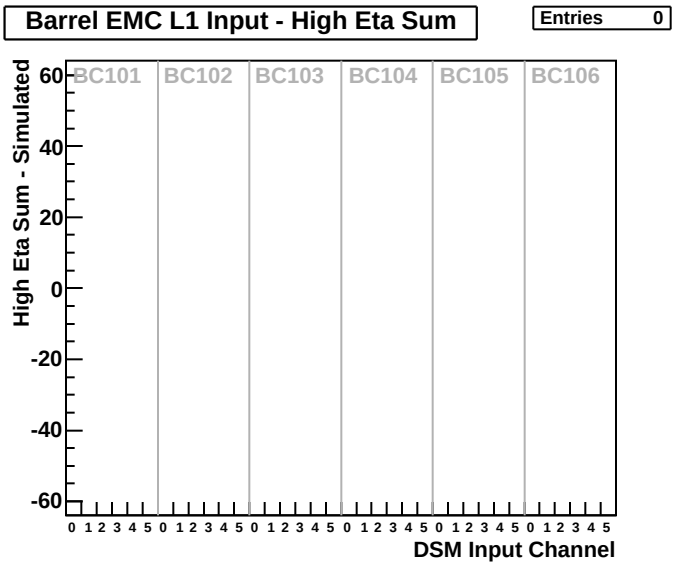
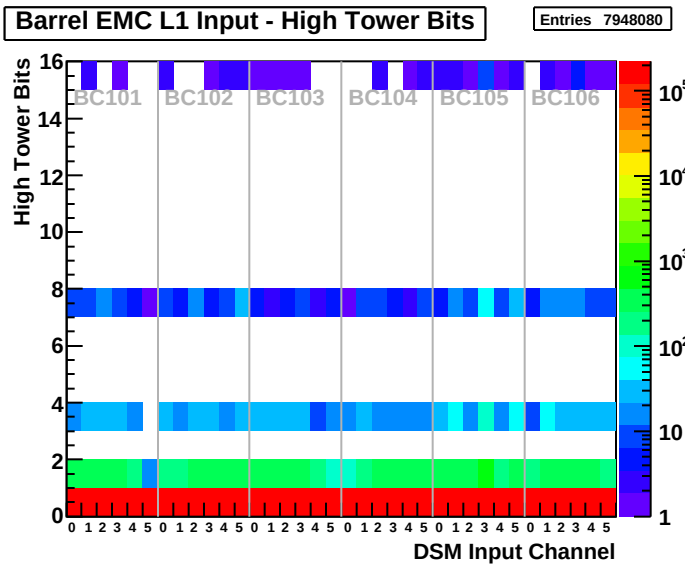
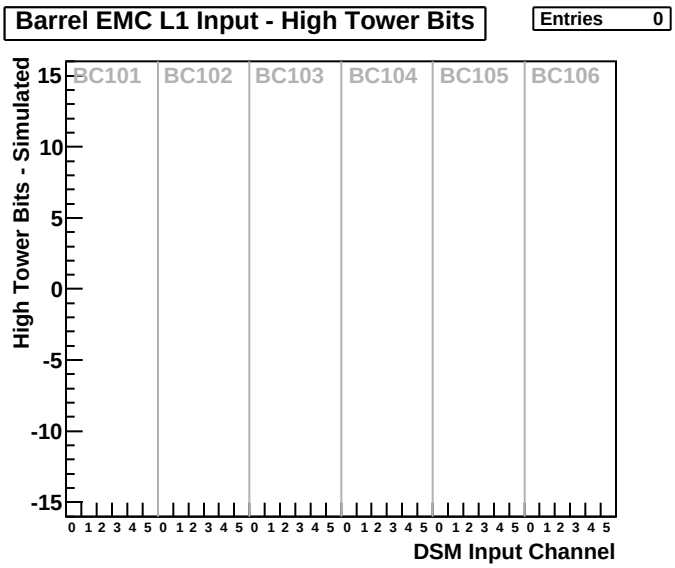

Barrel EMC L1 Input - Low Eta Sum
Entries 7948080
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

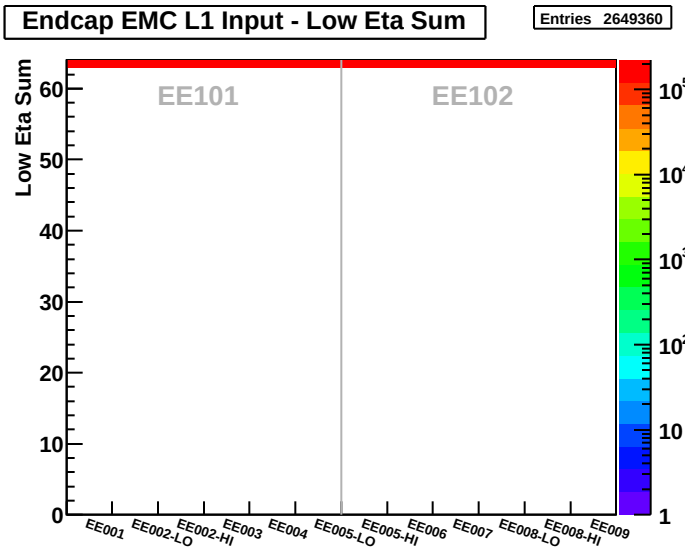

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

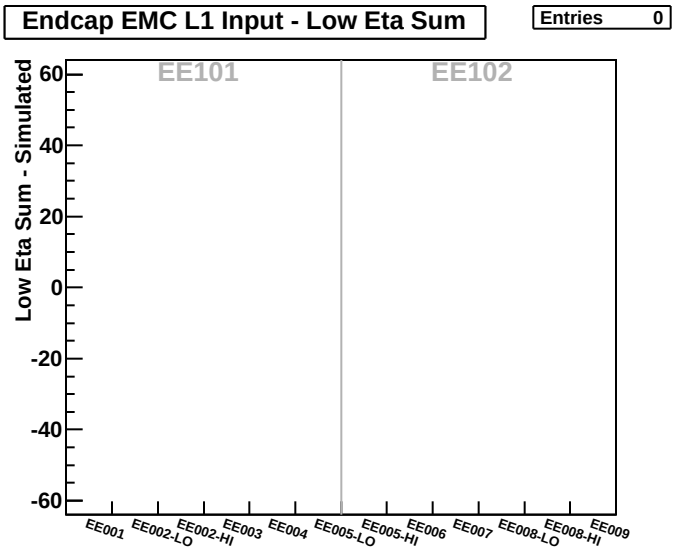

Barrel EMC L1 Input - High Eta Sum
Entries 7948080
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

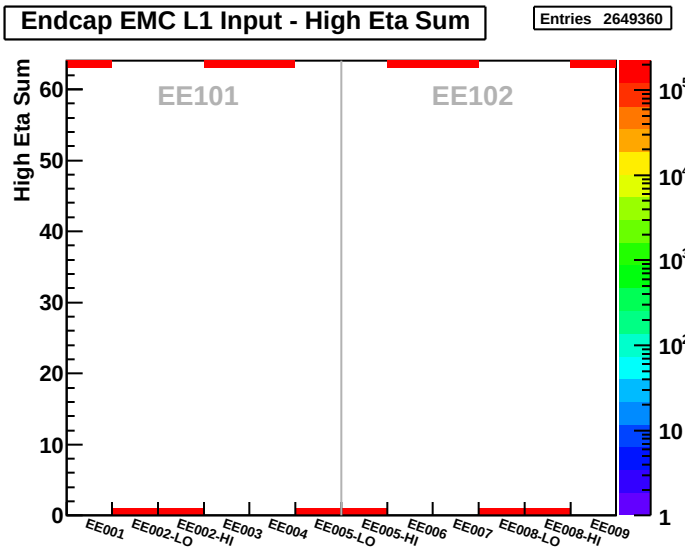

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

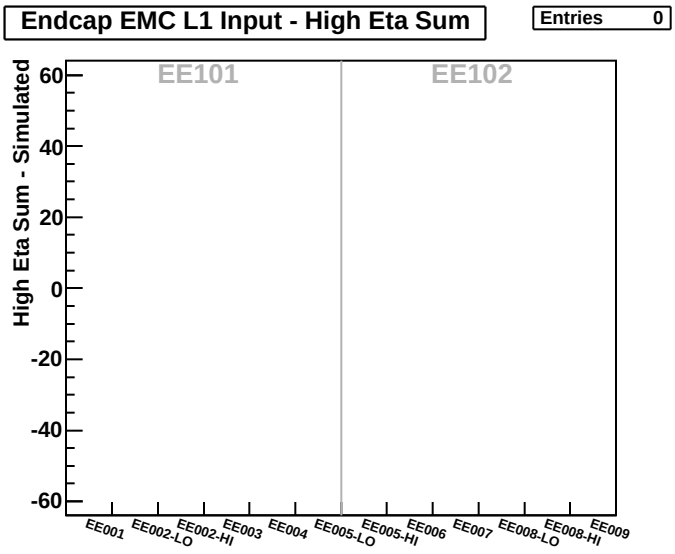

Barrel EMC L1 Input - High Tower Bits
Entries 7948080
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

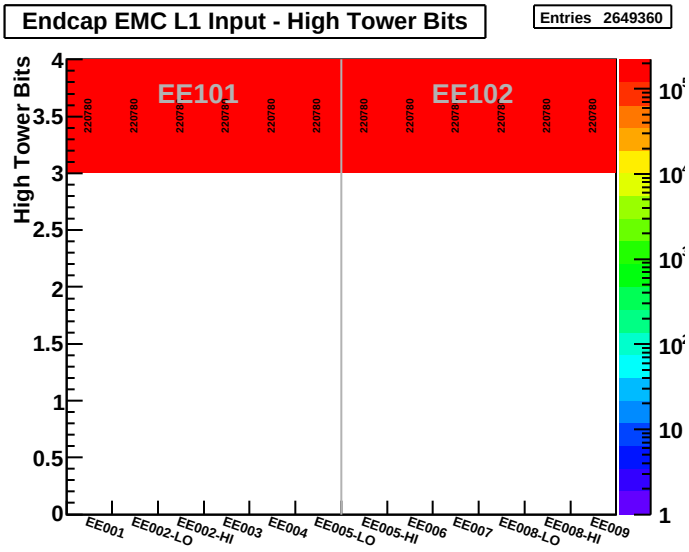

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

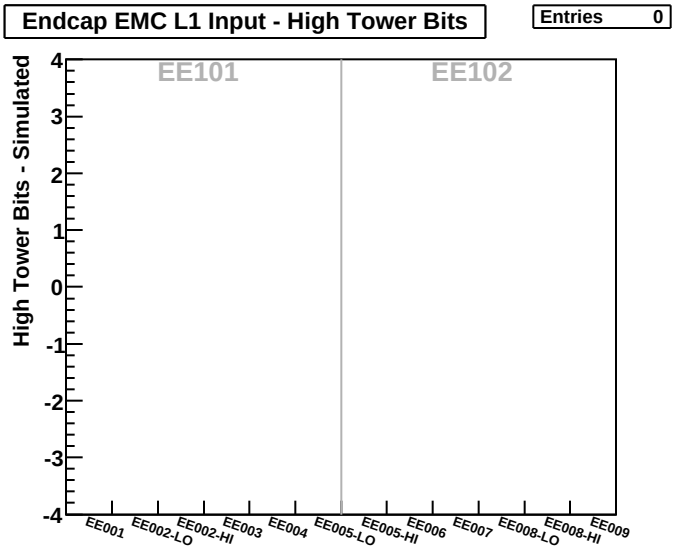

Endcap EMC L1 Input - Low Eta Sum
Entries 2649360
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

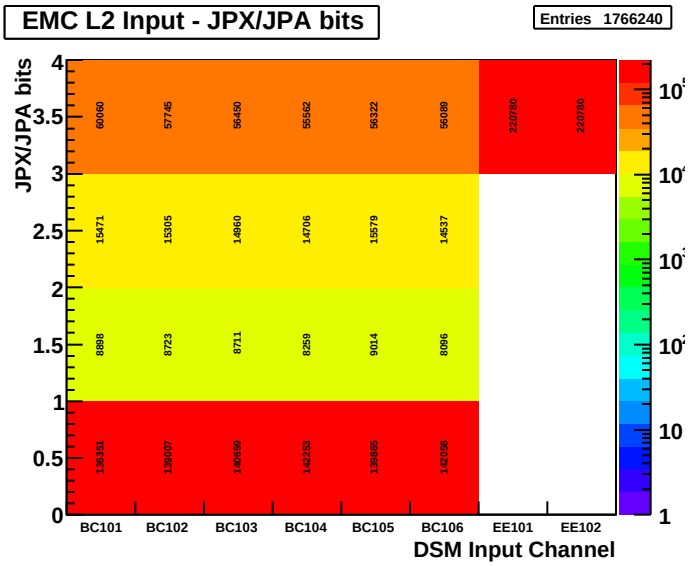

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

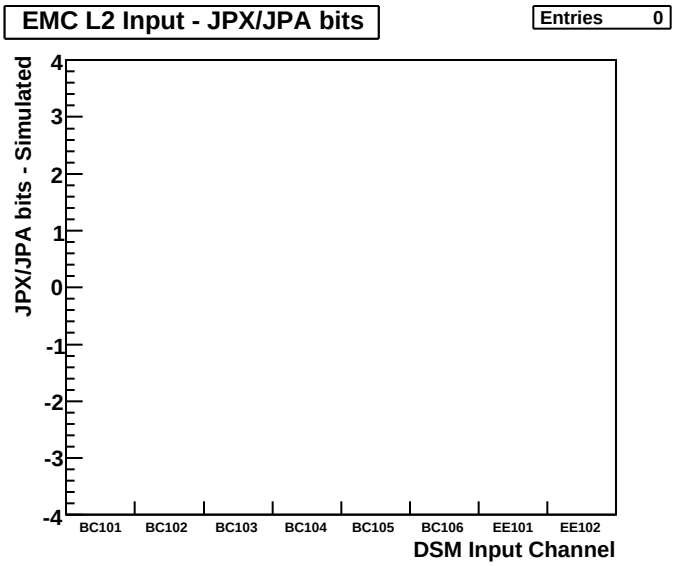

Endcap EMC L1 Input - High Eta Sum
Entries 2649360
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

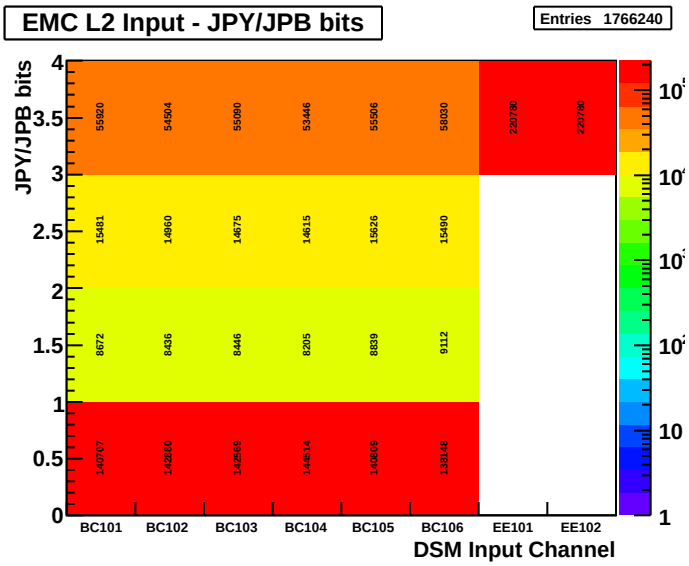

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

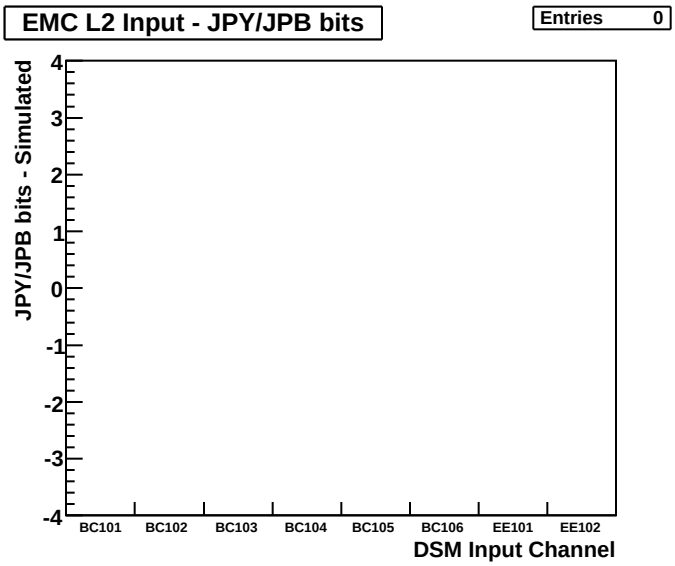

Endcap EMC L1 Input - High Tower Bits
Entries 2649360
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

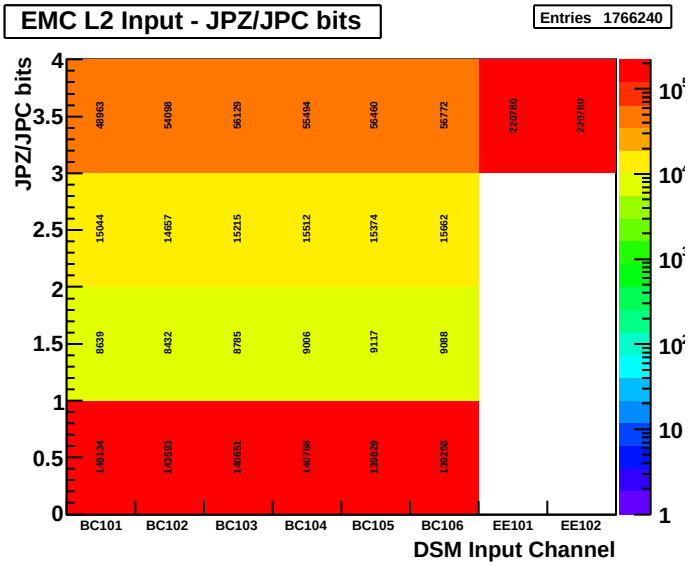

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

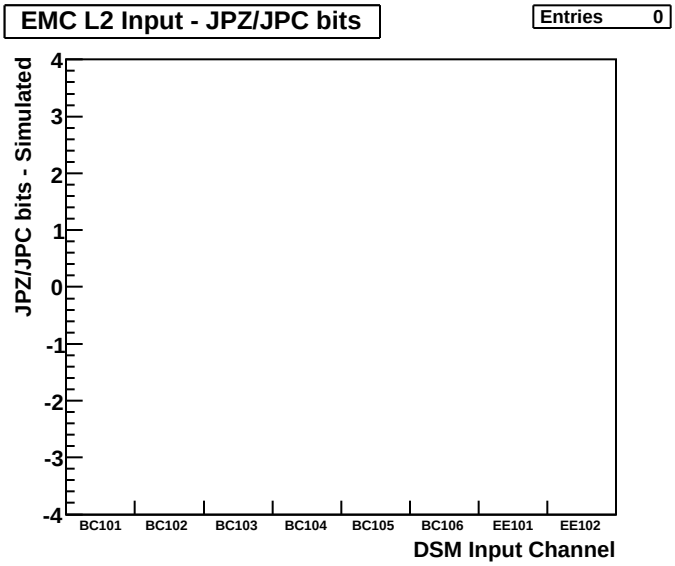

EMC L2 Input - JPX/JPA bits
Entries 1766240
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
60060 57745 56450 55562 56322 56089 220780 220780
15471 15305 14960 14706 15579 14537
8898 8723 8711 8259 9014 8096
136351 139007 140659 142253 139865 142058

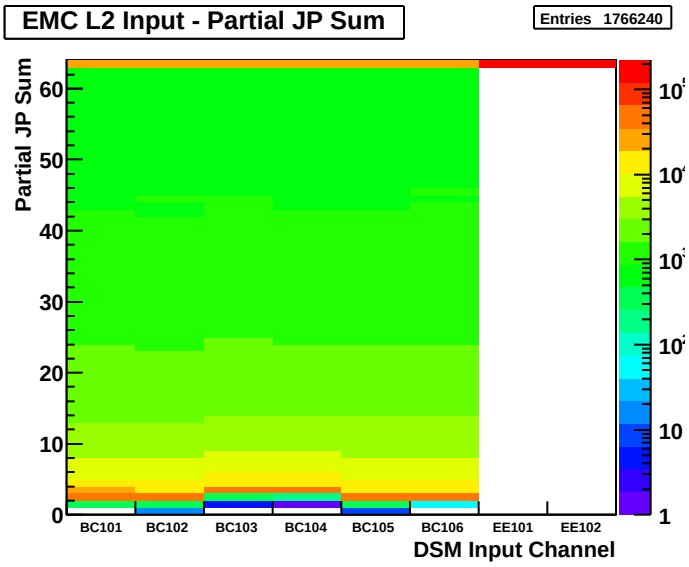

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

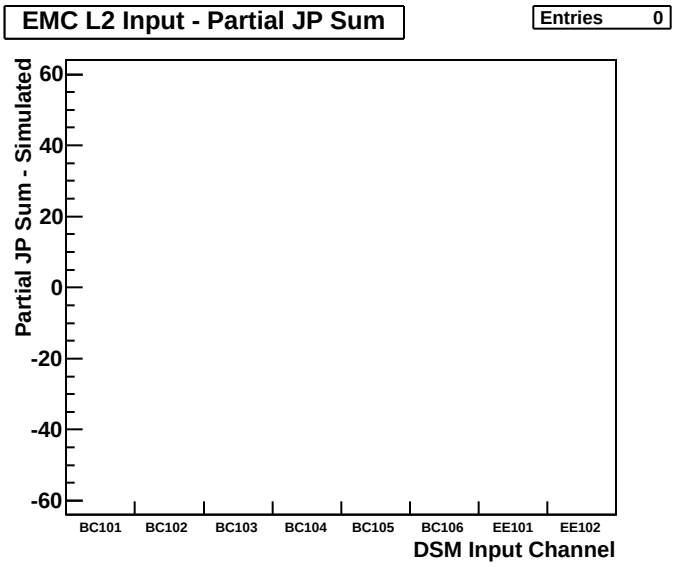

EMC L2 Input - JPY/JPB bits
Entries 1766240
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
55920 54504 55080 53446 55506 58030 220780 220780
15481 14960 14675 14615 15626 15490
8672 8436 8446 8205 8839 9112
140707 142380 142569 144514 140809 138148

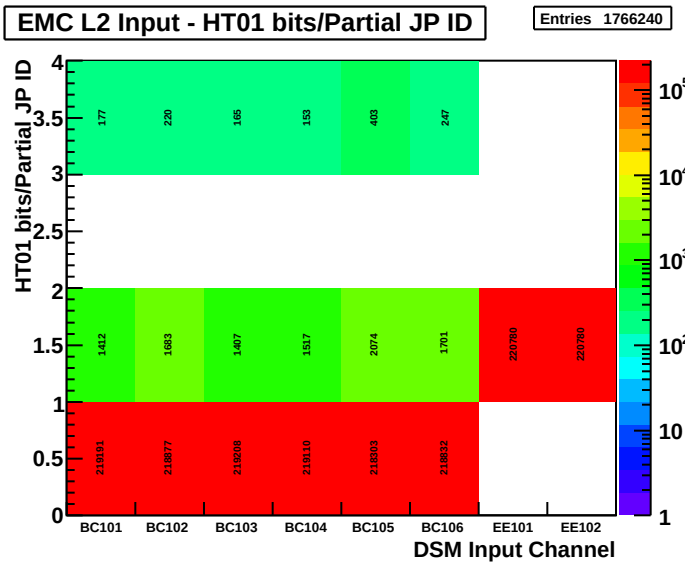

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

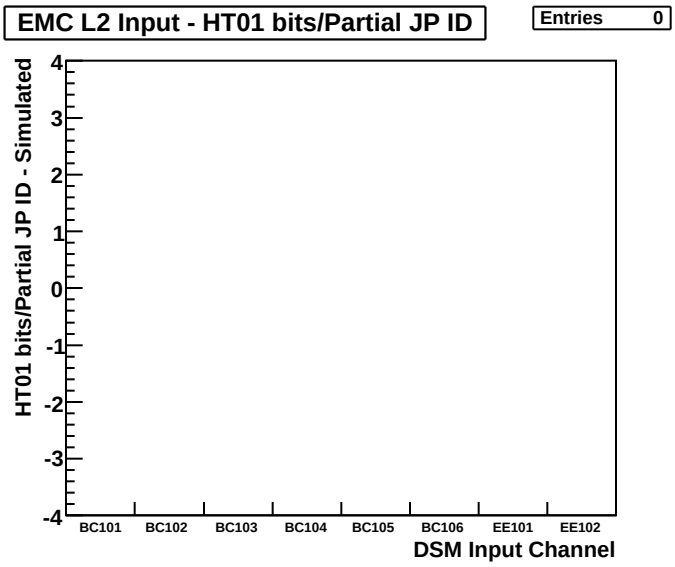

EMC L2 Input - JPZ/JPC bits
Entries 1766240
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
48963 54098 56129 55494 56460 56772 220780 220780
15044 14657 15215 15512 15374 15662
8639 8432 8785 9006 9117 9088
148134 143593 140651 140768 139929 139258

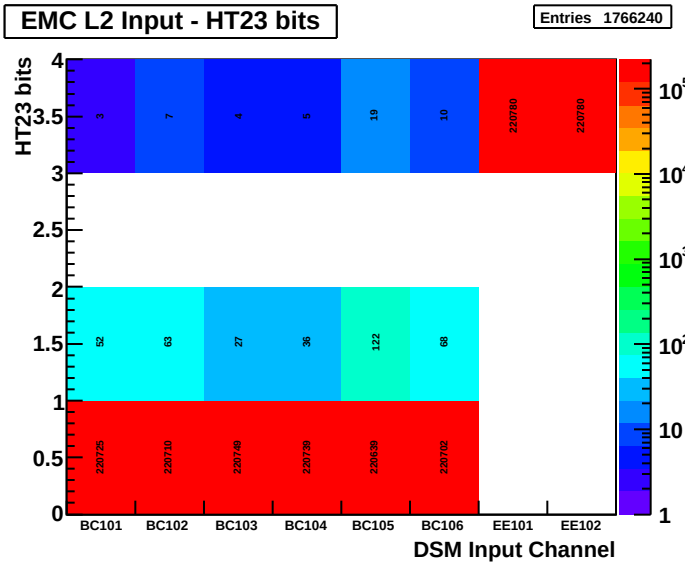

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

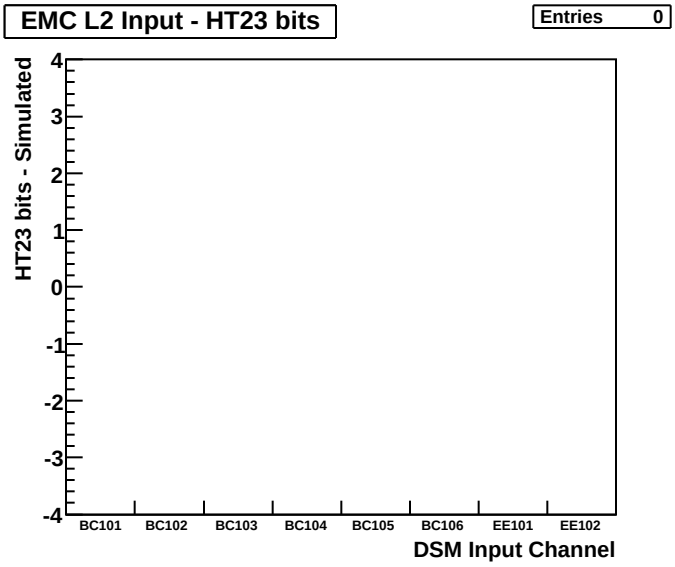

EMC L2 Input - Partial JP Sum
Entries 1766240
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

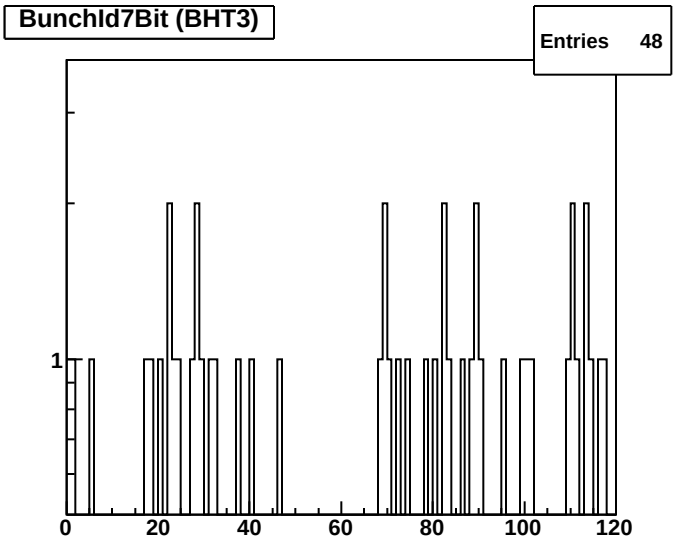

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

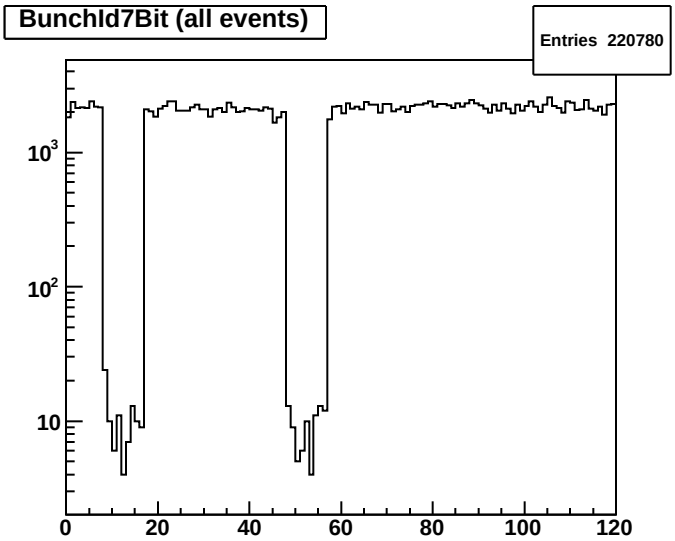

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1766240
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

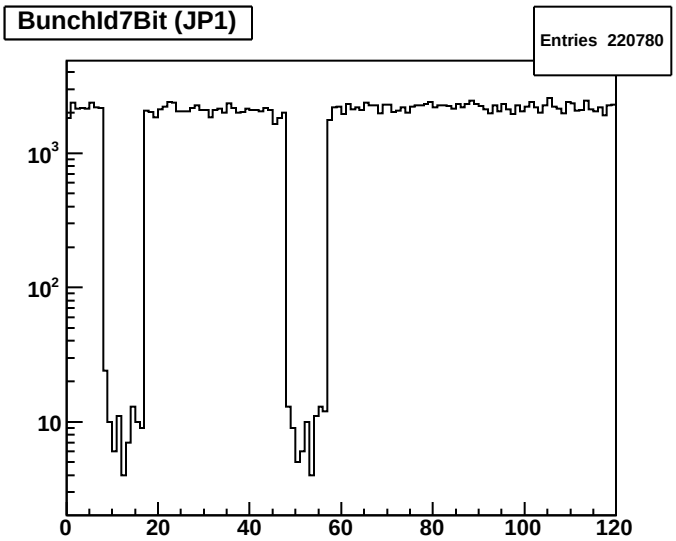

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

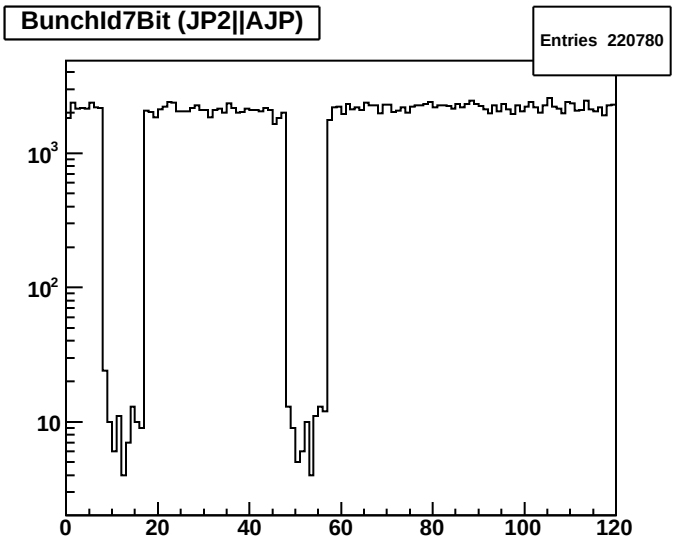

EMC L2 Input - HT23 bits
Entries 1766240
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

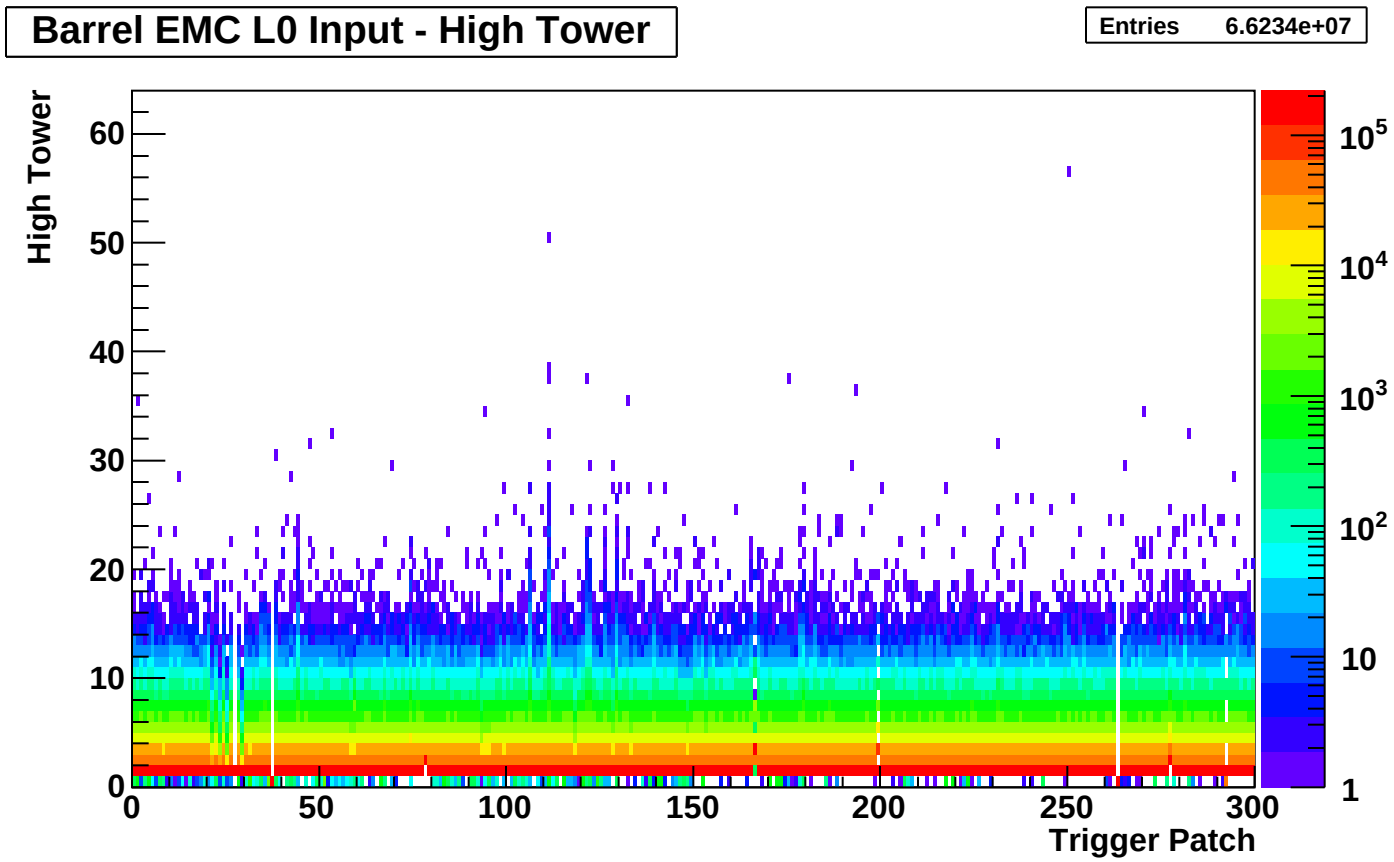

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

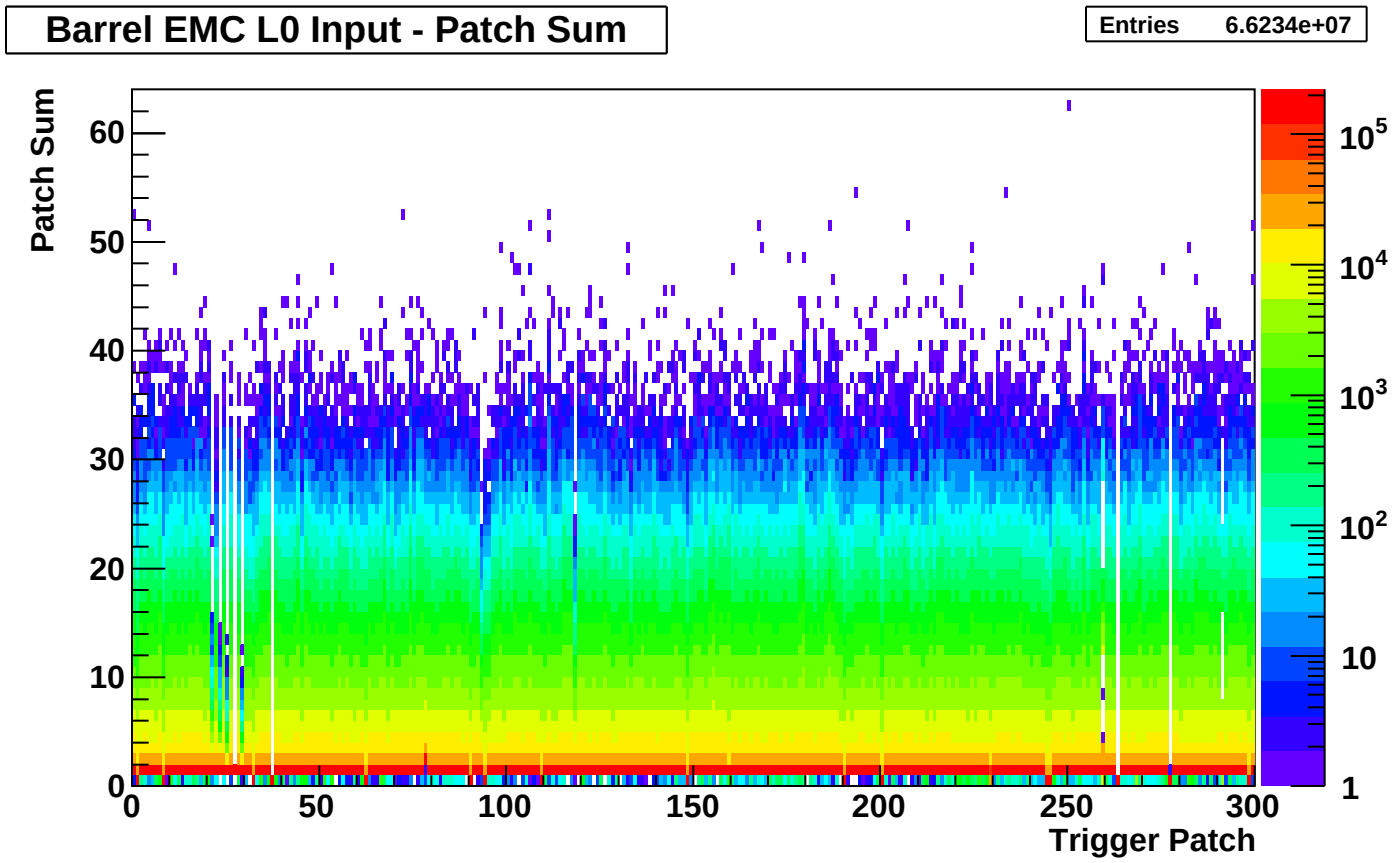

BunchId7Bit (BHT3)
Entries 48
1
0
20
40
60
80
100
120

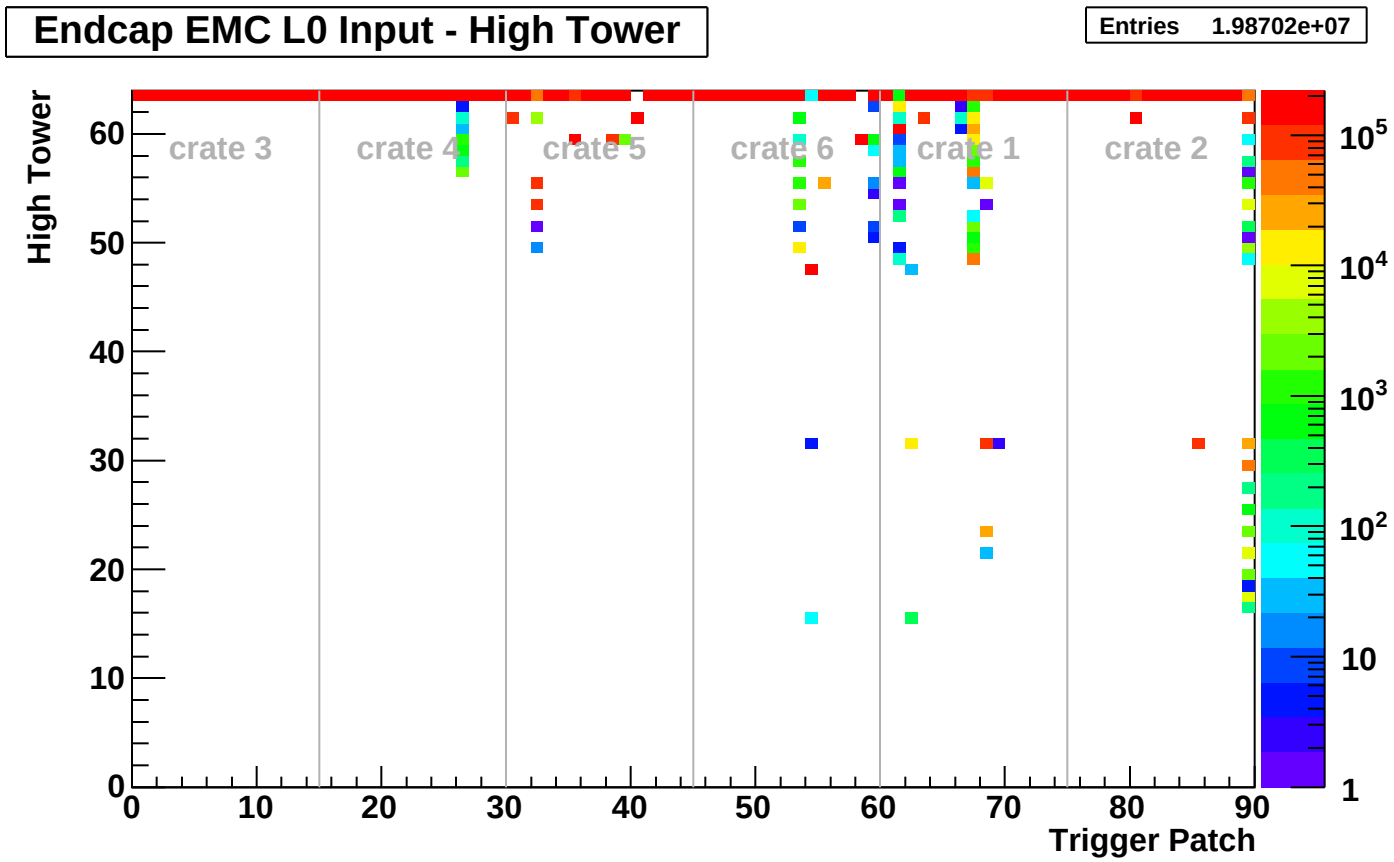

BunchId7Bit (all events)
Entries 220780
10^3
10^2
10
0
20
40
60
80
100
120

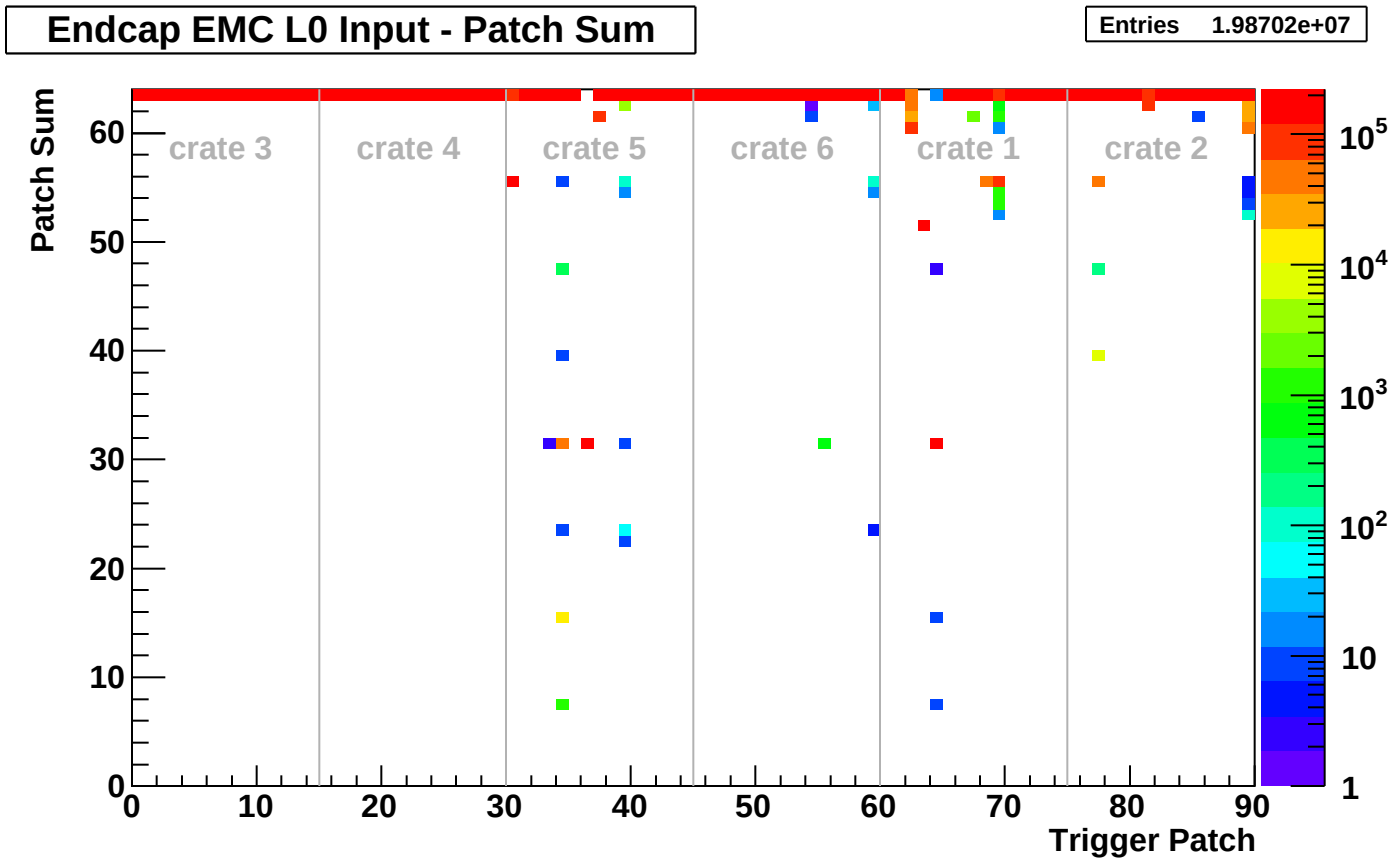

BunchId7Bit (JP1)
Entries 220780
10^3
10^2
10
0
20
40
60
80
100
120

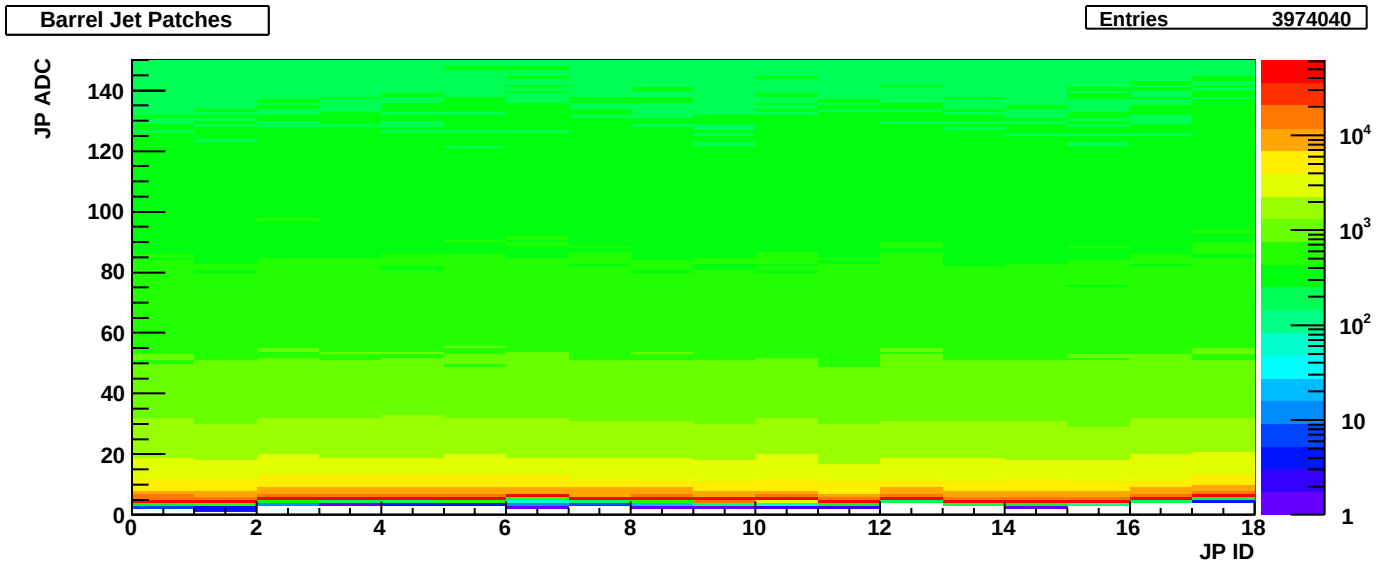

BunchId7Bit (JP2||AJP)
Entries 220780
10^3
10^2
10
0
20
40
60
80
100
120

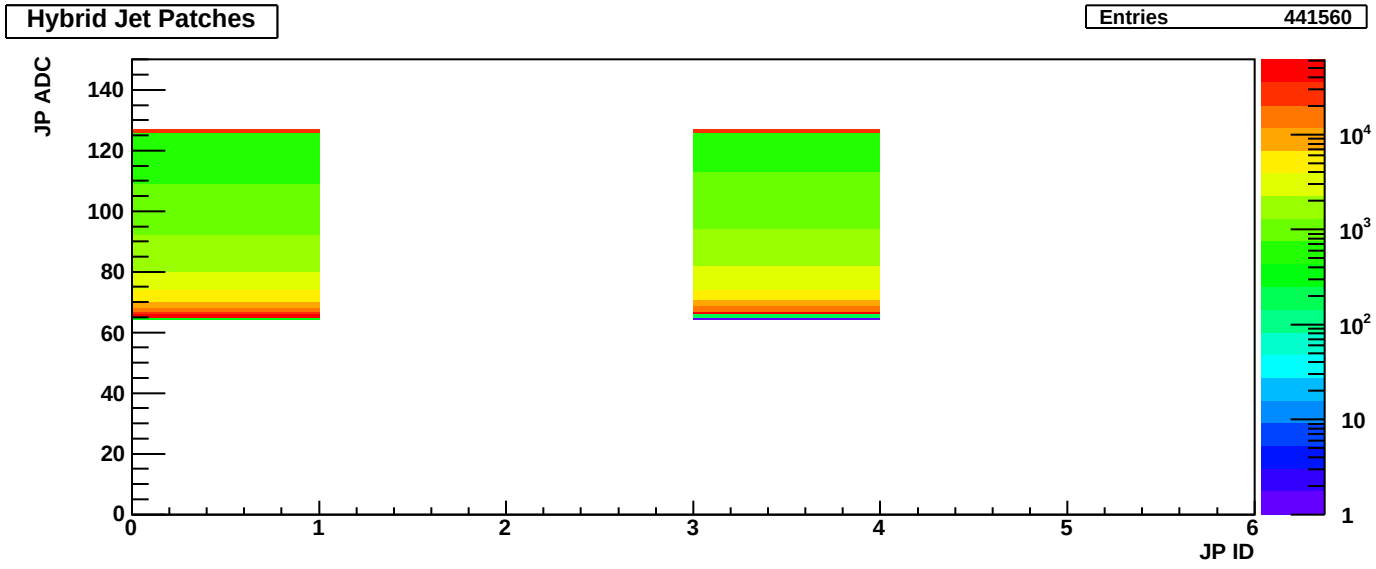

Barrel EMC L0 Input - High Tower
Entries 6.6234e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

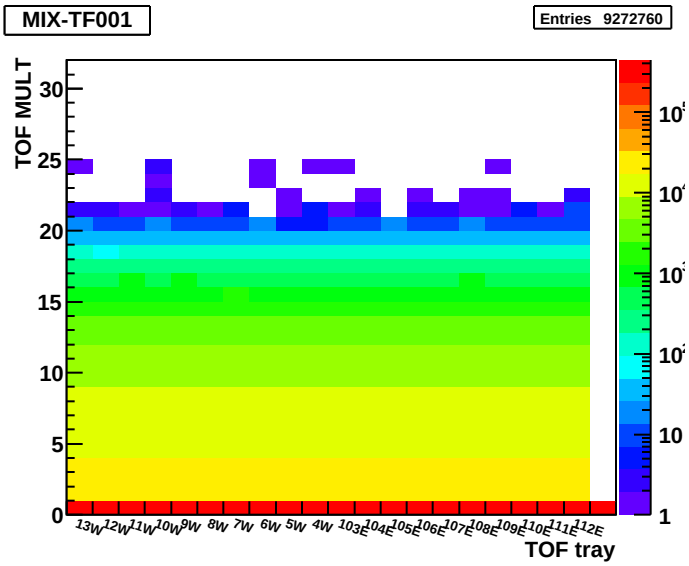

Barrel EMC L0 Input - Patch Sum
Entries 6.6234e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

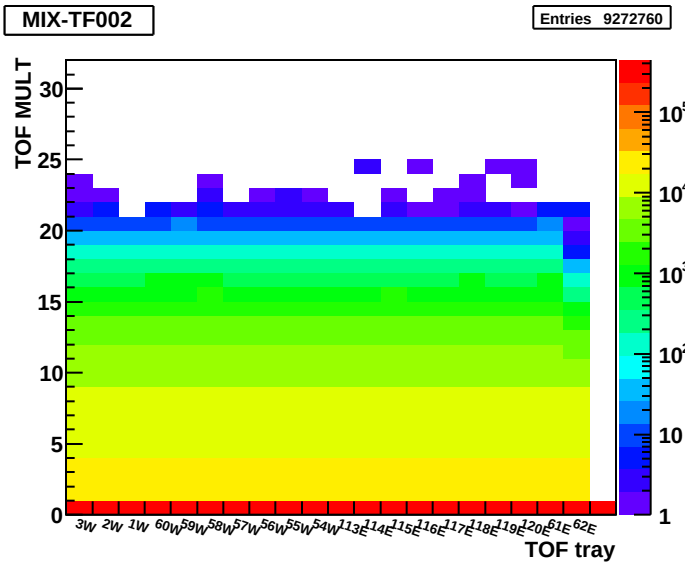

Endcap EMC L0 Input - High Tower
Entries 1.98702e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

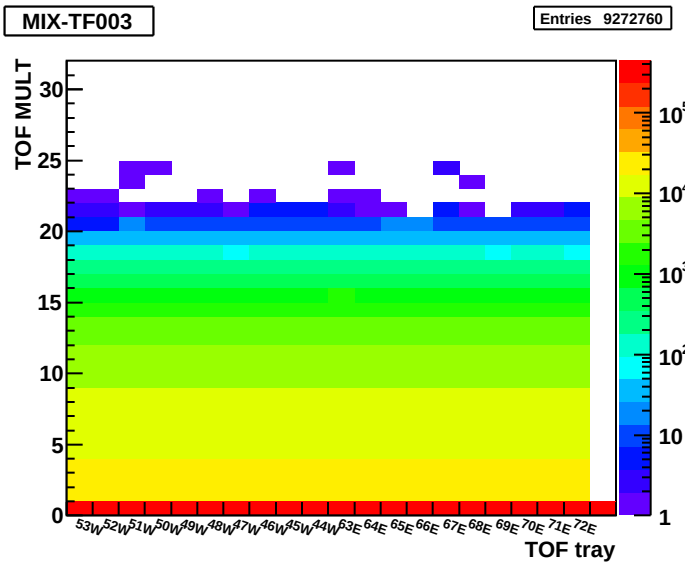

Endcap EMC L0 Input - Patch Sum
Entries 1.98702e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

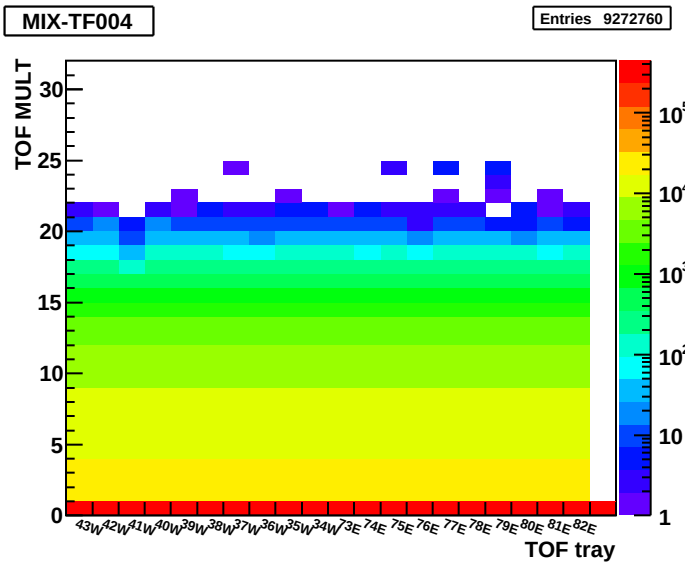

Barrel Jet Patches
Entries 3974040
JP ADC
JP ID

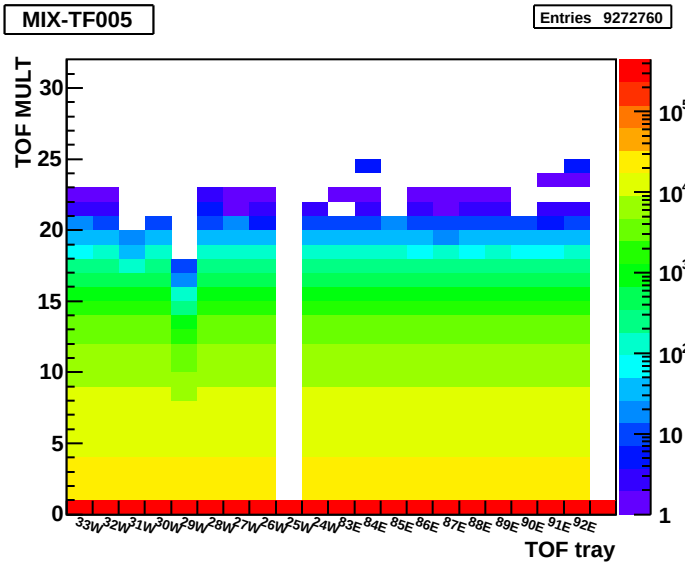

Hybrid Jet Patches
Entries 441560
JP ADC
JP ID

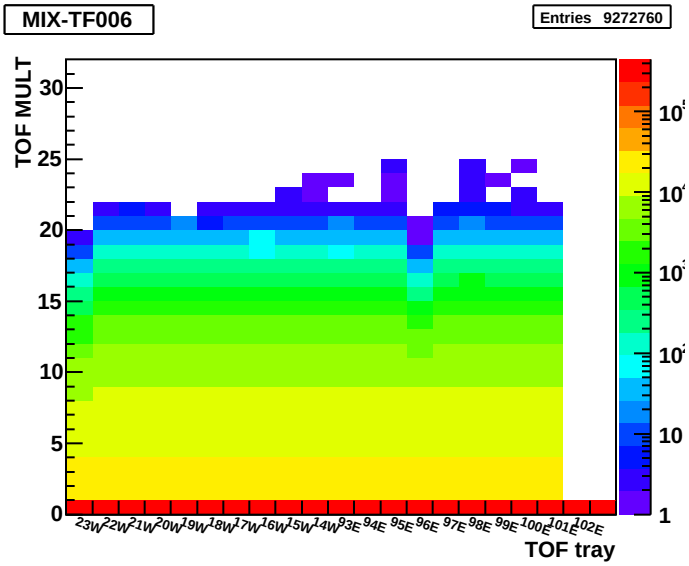

MIX-TF001
Entries 9272760
TOF MULT
TOF tray

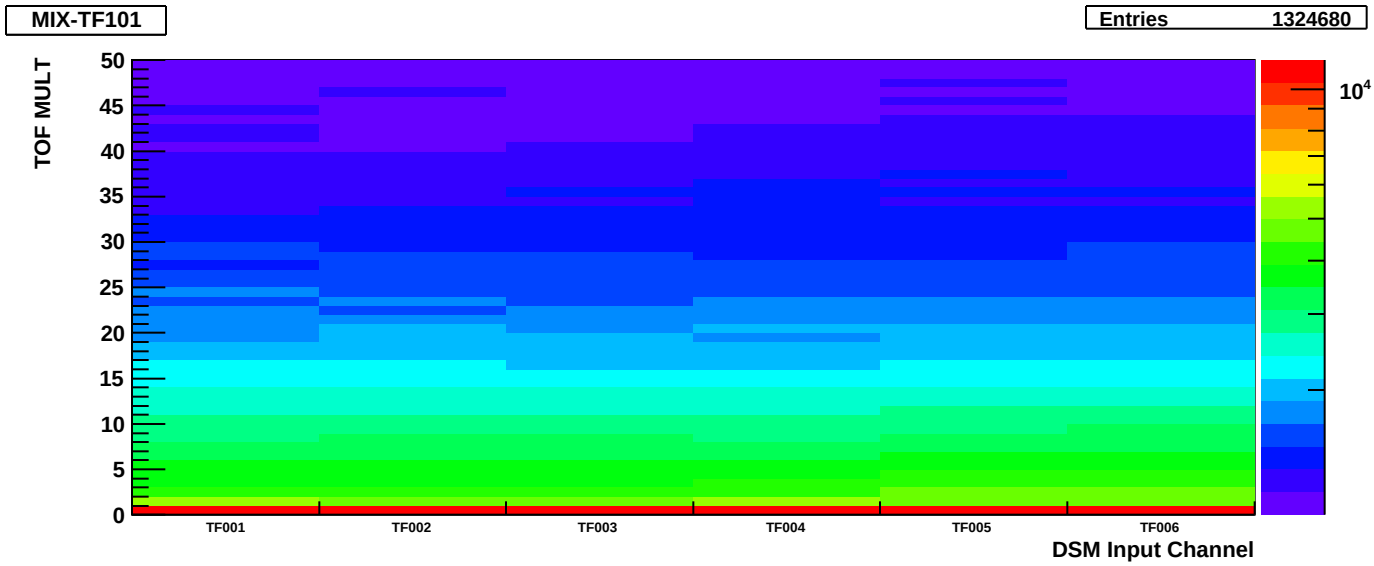

MIX-TF002
Entries 9272760
TOF MULT
TOF tray

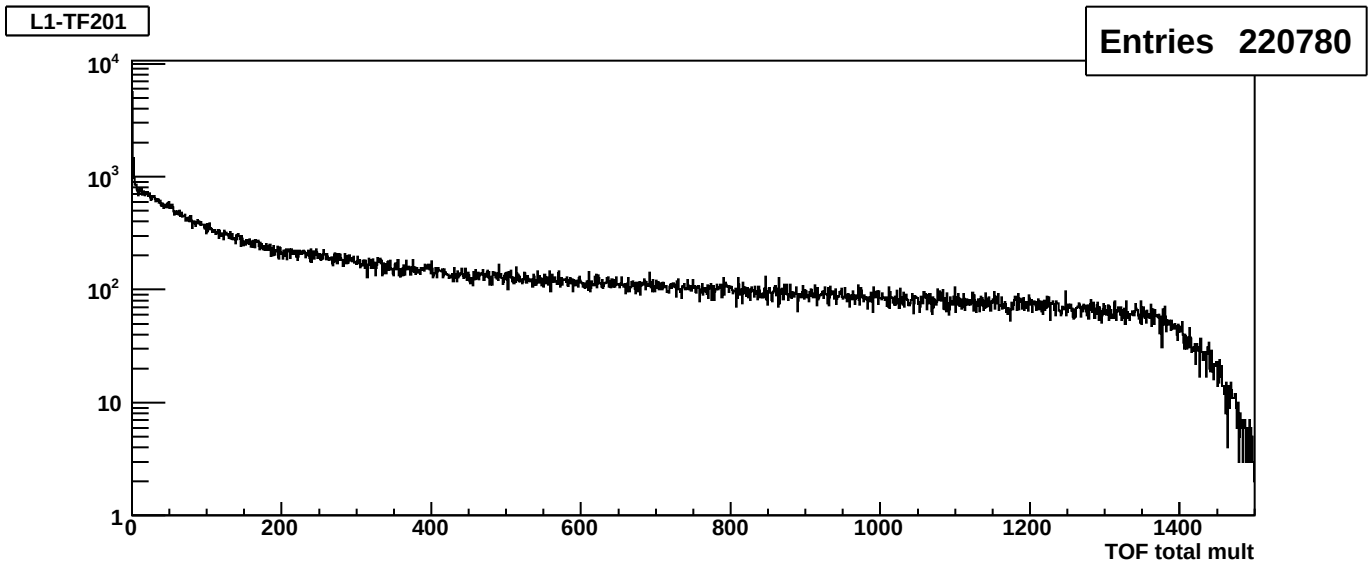

MIX-TF003
Entries 9272760
TOF MULT
TOF tray

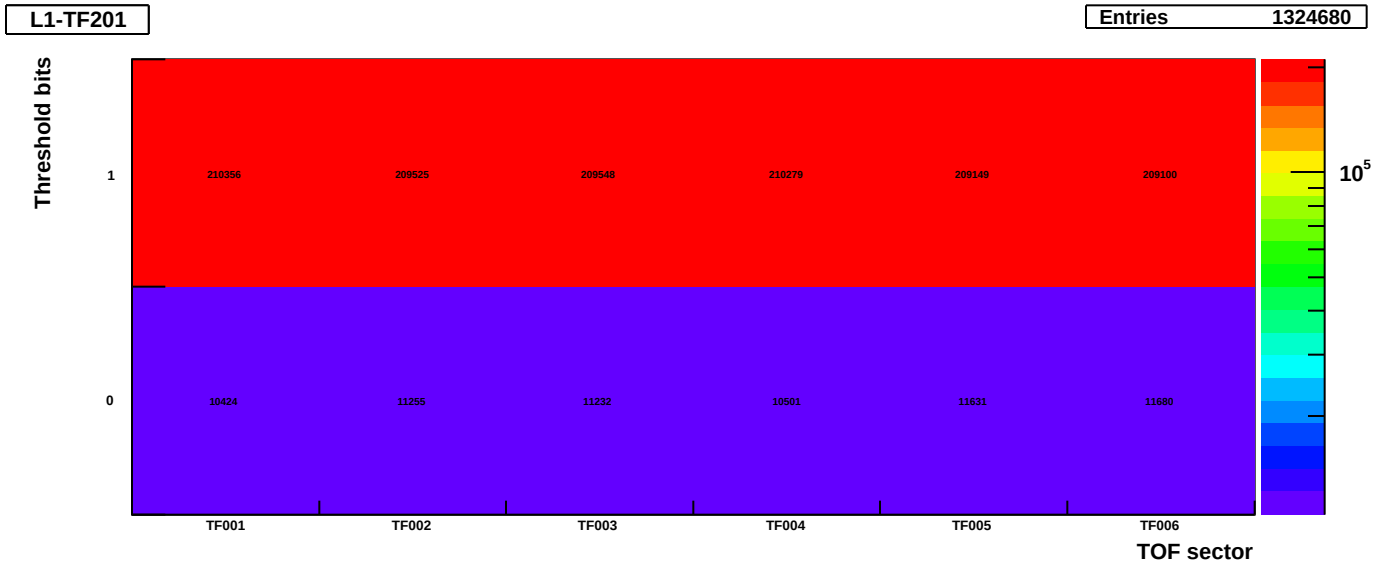

MIX-TF004
Entries 9272760
TOF MULT
TOF tray

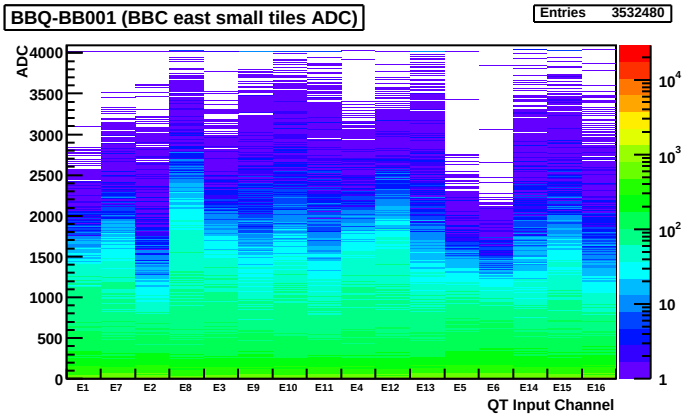

MIX-TF005
Entries 9272760
TOF MULT
TOF tray

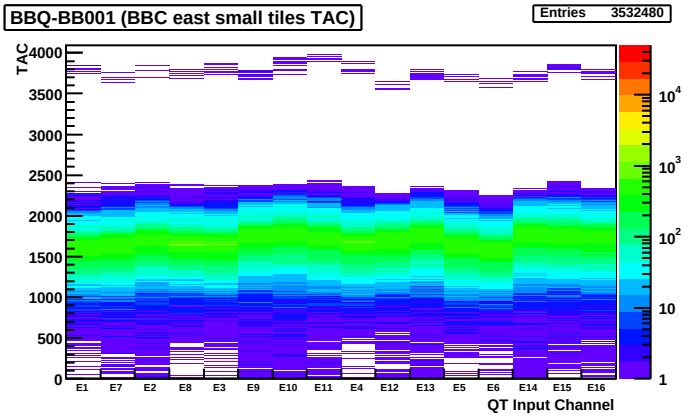

MIX-TF006
Entries 9272760
TOF MULT
TOF tray

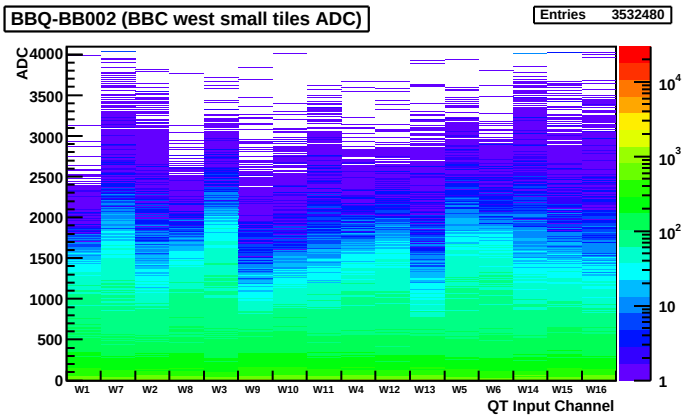

MIX-TF101
Entries 1324680
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

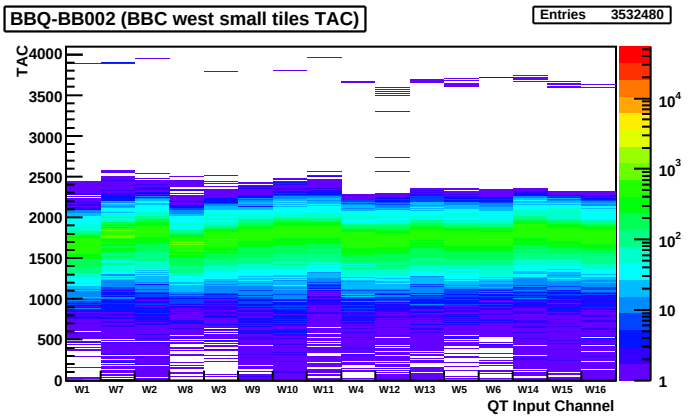

L1-TF201
Entries 220780
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

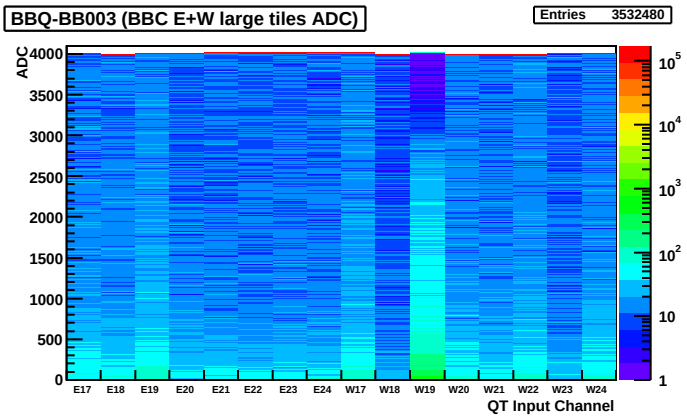

L1-TF201
Entries 1324680
Threshold bits
1
0
210356
209525
209548
210279
209149
209100
10424
11255
11232
10501
11631
11680
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

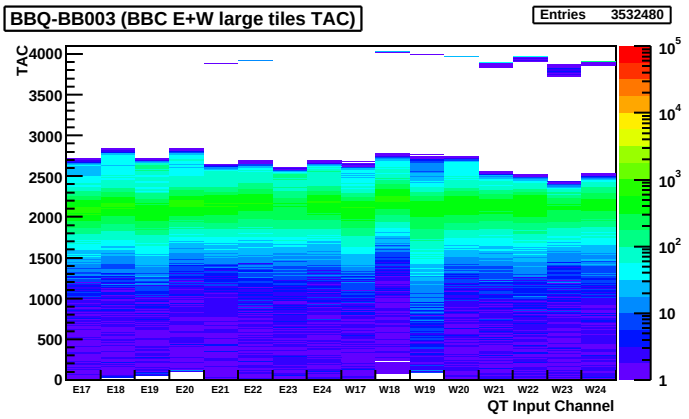

BBQ-BB001 (BBC east small tiles ADC)
Entries 3532480
ADC
QT Input Channel

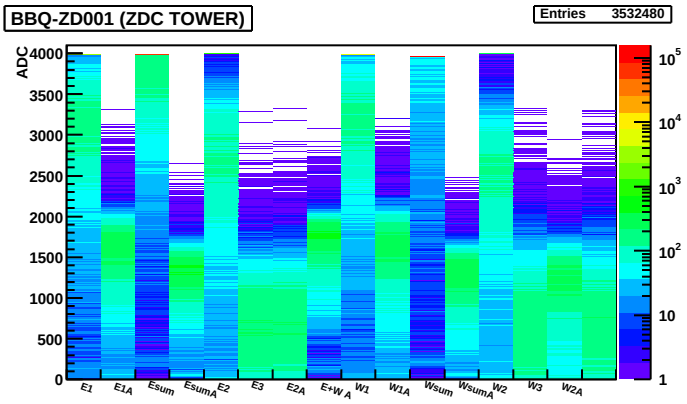

BBQ-BB001 (BBC east small tiles TAC)
Entries 3532480
TAC
QT Input Channel

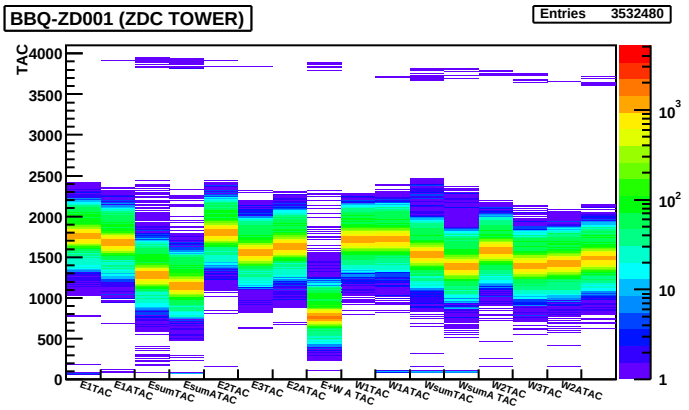

BBQ-BB002 (BBC west small tiles ADC)
Entries 3532480
ADC
QT Input Channel

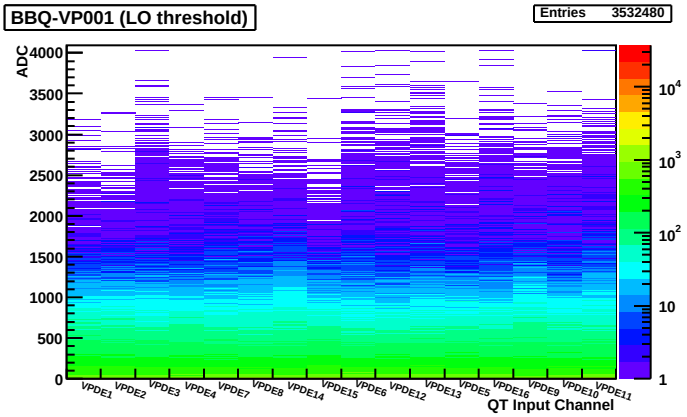

BBQ-BB002 (BBC west small tiles TAC)
Entries 3532480
TAC
QT Input Channel

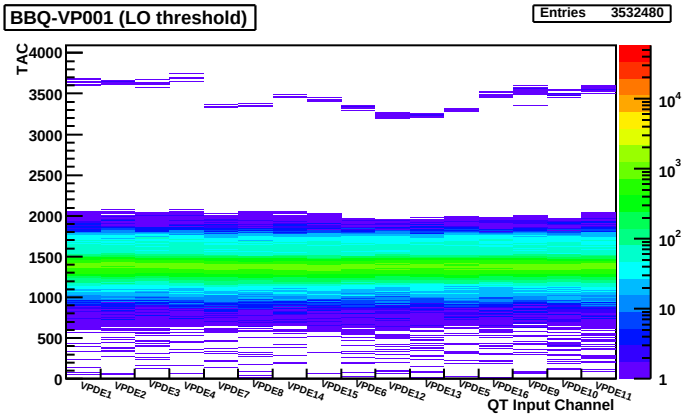

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3532480
ADC
QT Input Channel

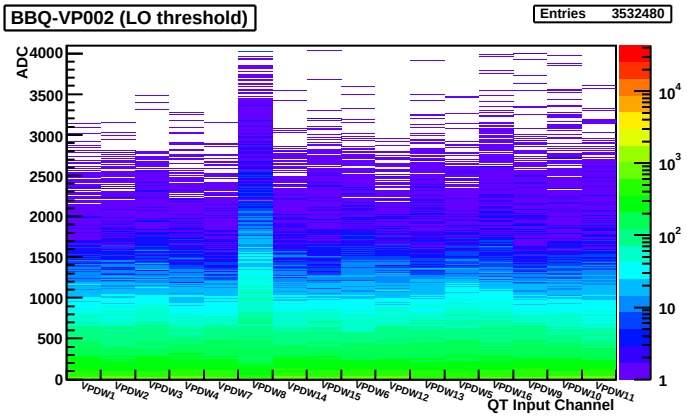

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3532480
TAC
QT Input Channel

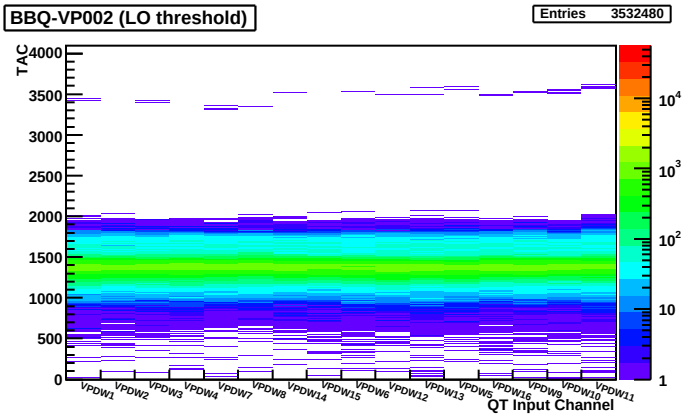

BBQ-ZD001 (ZDC TOWER)
Entries 3532480
ADC

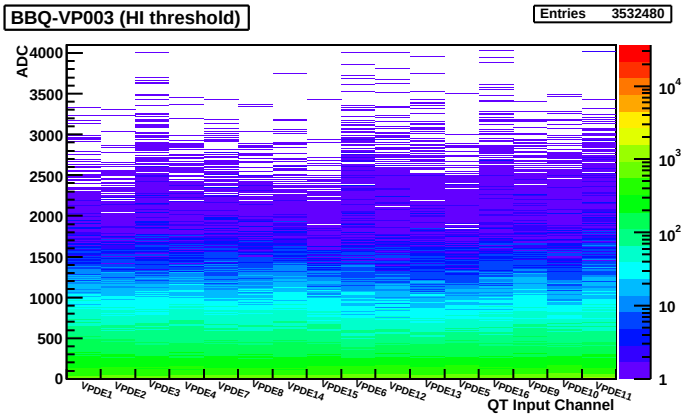

BBQ-ZD001 (ZDC TOWER)
Entries 3532480
TAC

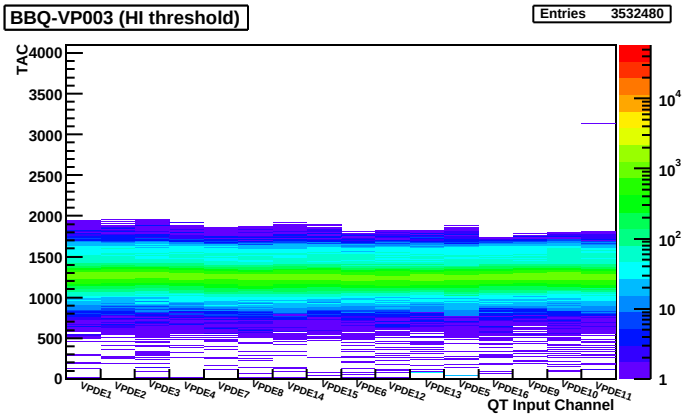

BBQ-VP001 (LO threshold)
Entries 3532480
ADC
QT Input Channel

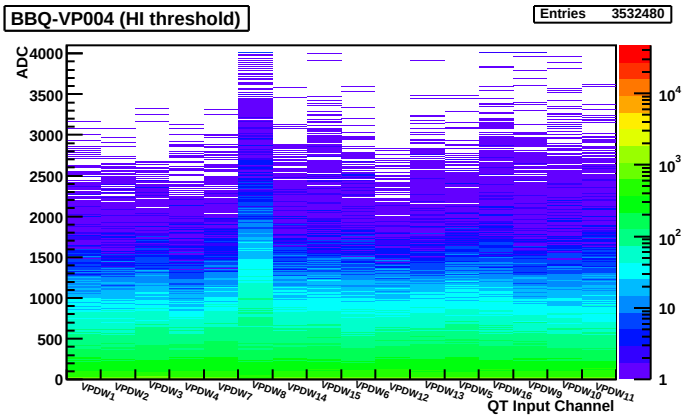

BBQ-VP001 (LO threshold)
Entries 3532480
TAC
QT Input Channel

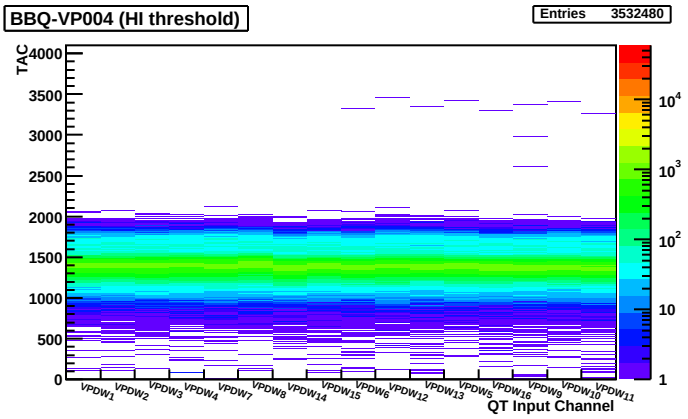

BBQ-VP002 (LO threshold)
Entries 3532480
ADC
QT Input Channel

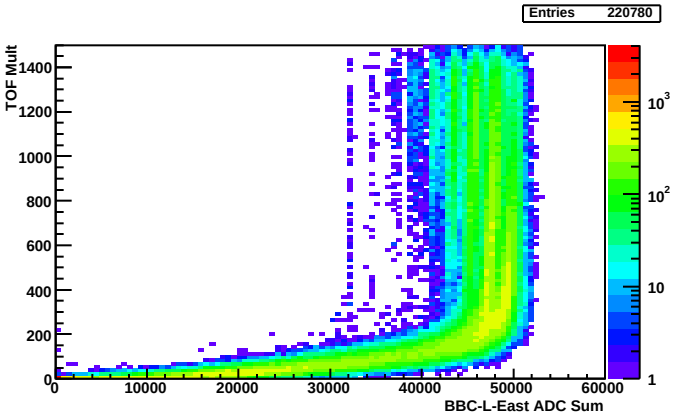

BBQ-VP002 (LO threshold)
Entries 3532480
TAC
QT Input Channel

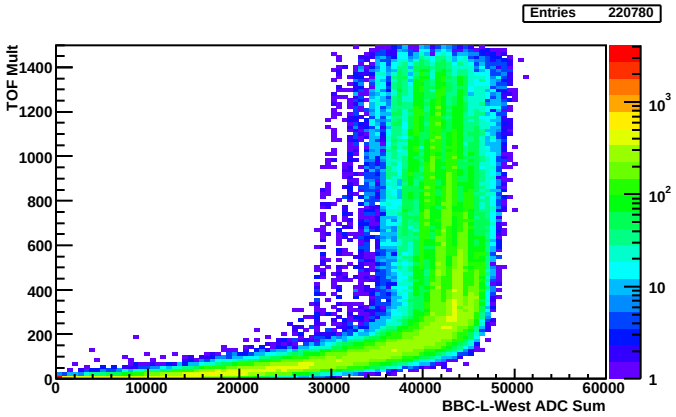

BBQ-VP003 (HI threshold)
Entries 3532480
ADC
QT Input Channel

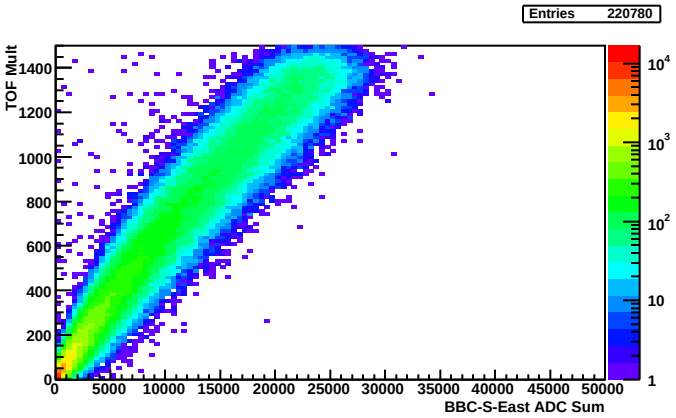

BBQ-VP003 (HI threshold)
Entries 3532480
TAC
QT Input Channel

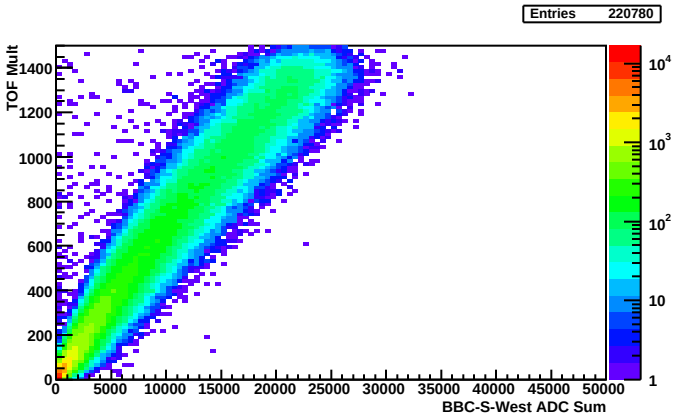

BBQ-VP004 (HI threshold)
Entries 3532480
ADC
QT Input Channel

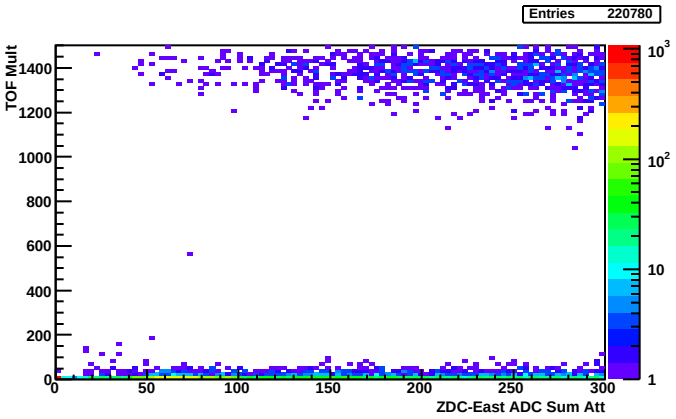

BBQ-VP004 (HI threshold)
Entries 3532480
TAC
QT Input Channel

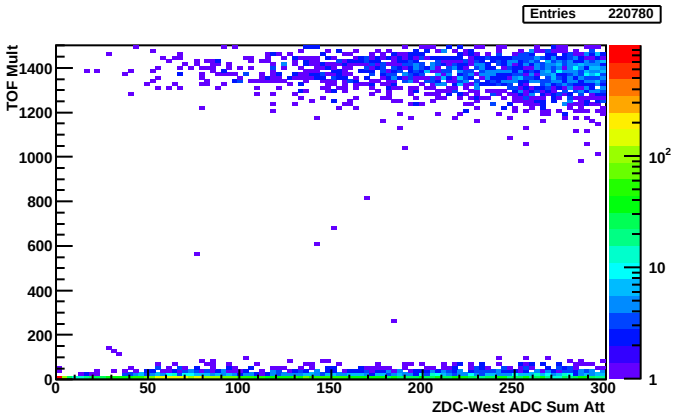

Entries 220780
TOF Mult
BBC-L-East ADC Sum


Entries 220780
TOF Mult
BBC-L-West ADC Sum


Entries 220780
TOF Mult
BBC-S-East ADC Sum


Entries 220780
TOF Mult
BBC-S-West ADC Sum


Entries 220780
TOF Mult
ZDC-East ADC Sum Att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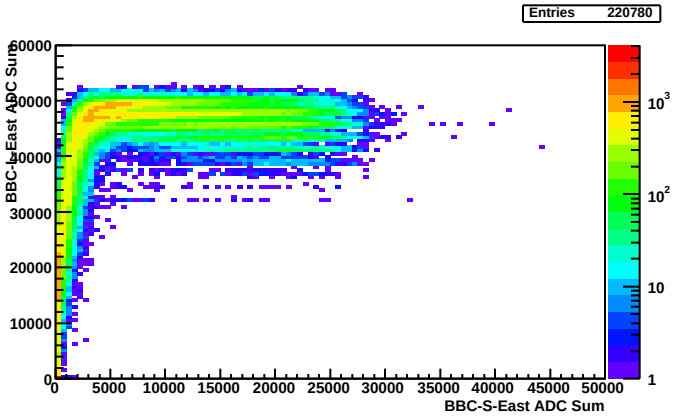
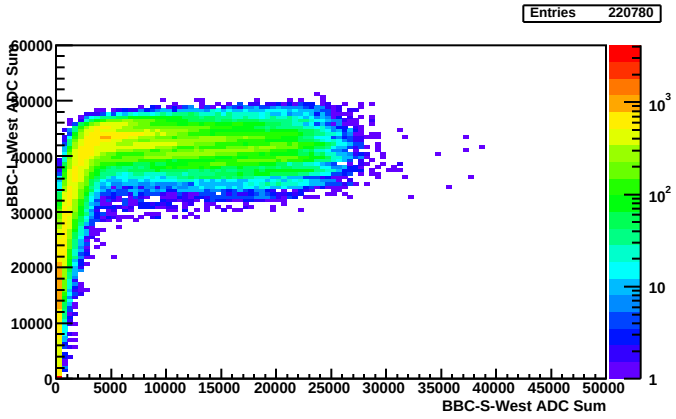
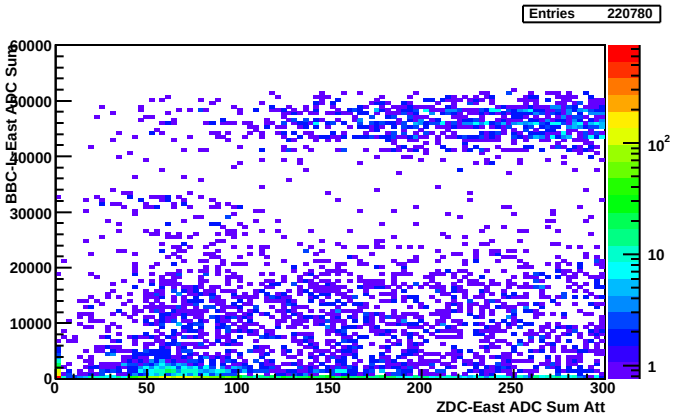
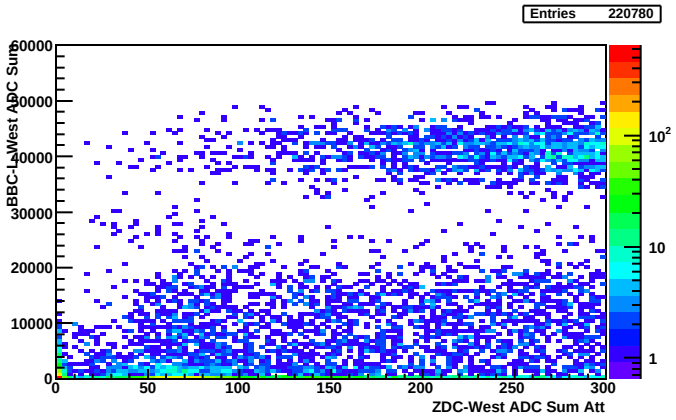
TOF Mult
ZDC-West ADC Sum Att


Entries 220780
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 220780
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 220780
BBC-L-East ADC Sum
ZDC-East ADC Sum Att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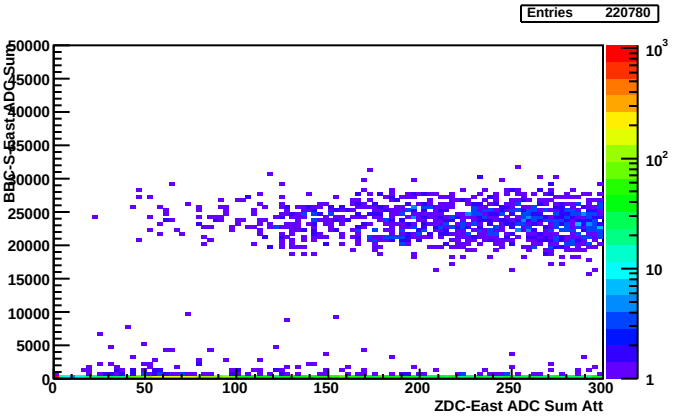
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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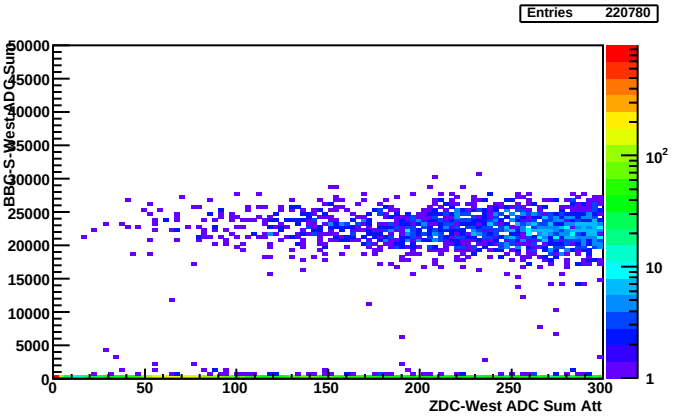
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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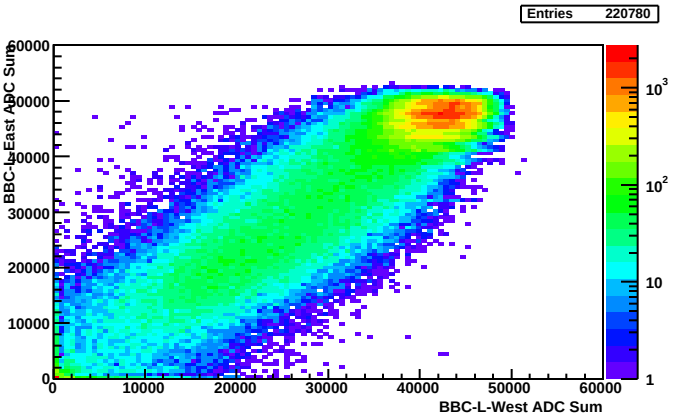
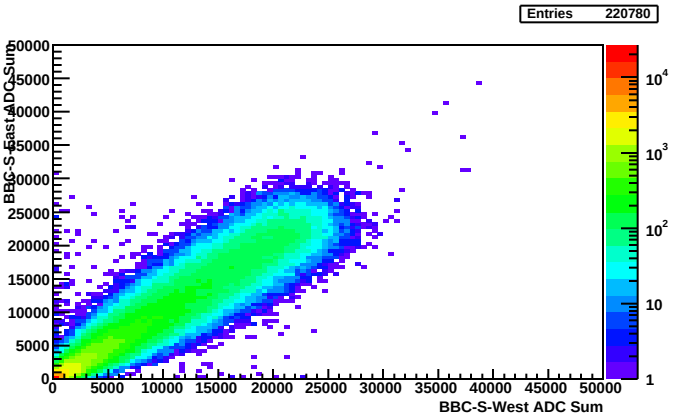
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 220780
BBC-L-East ADC Sum
BBC-L-West ADC Sum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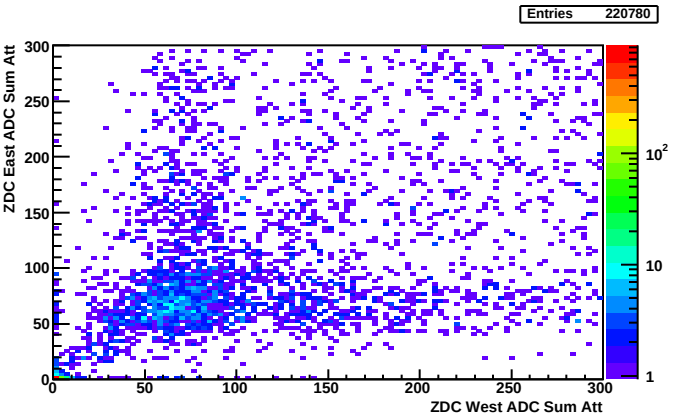
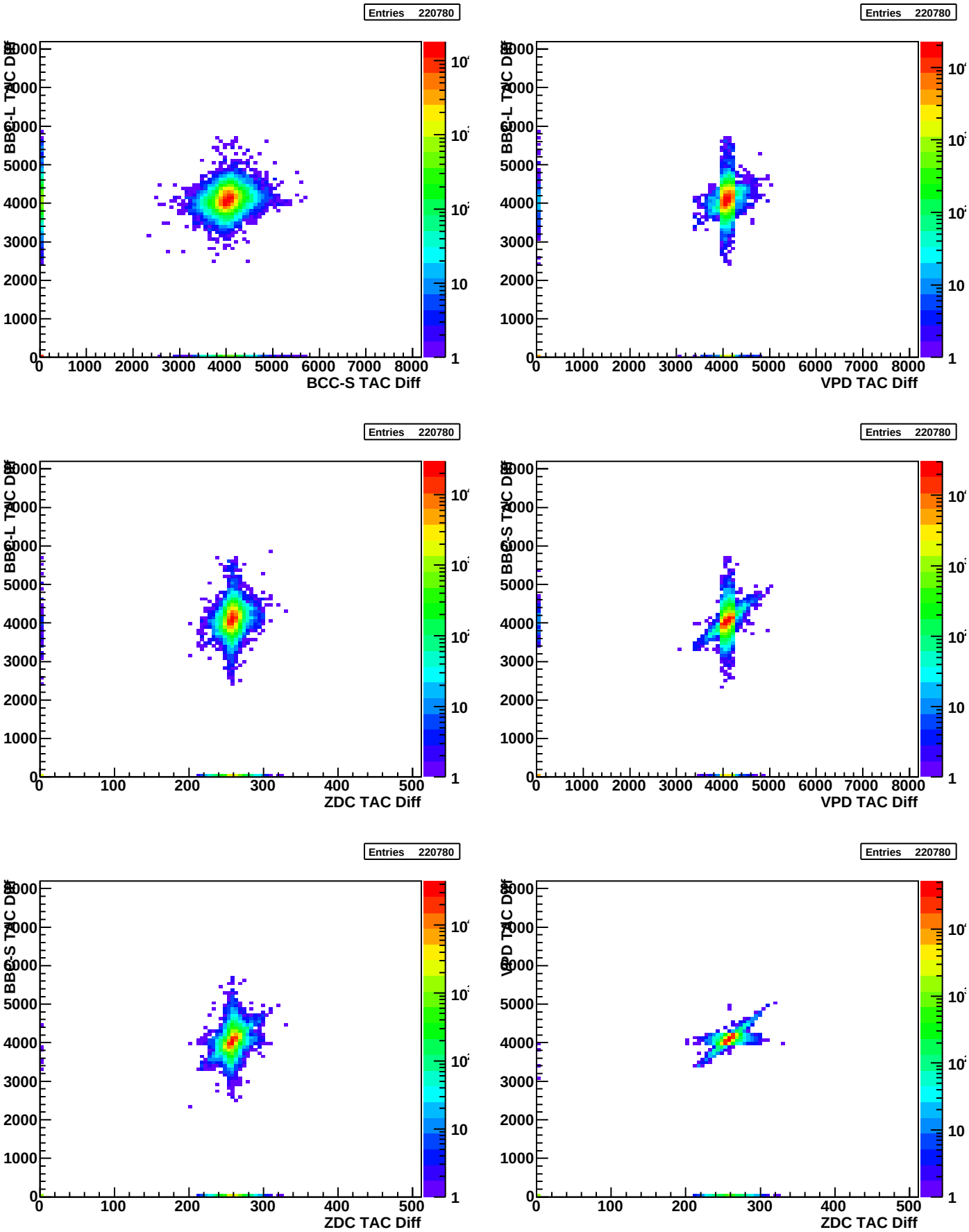
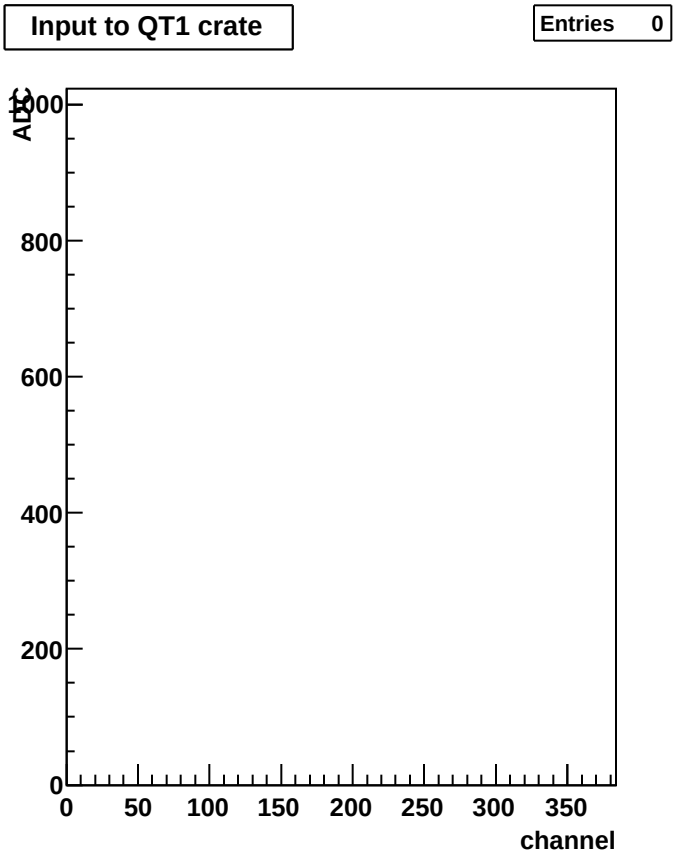
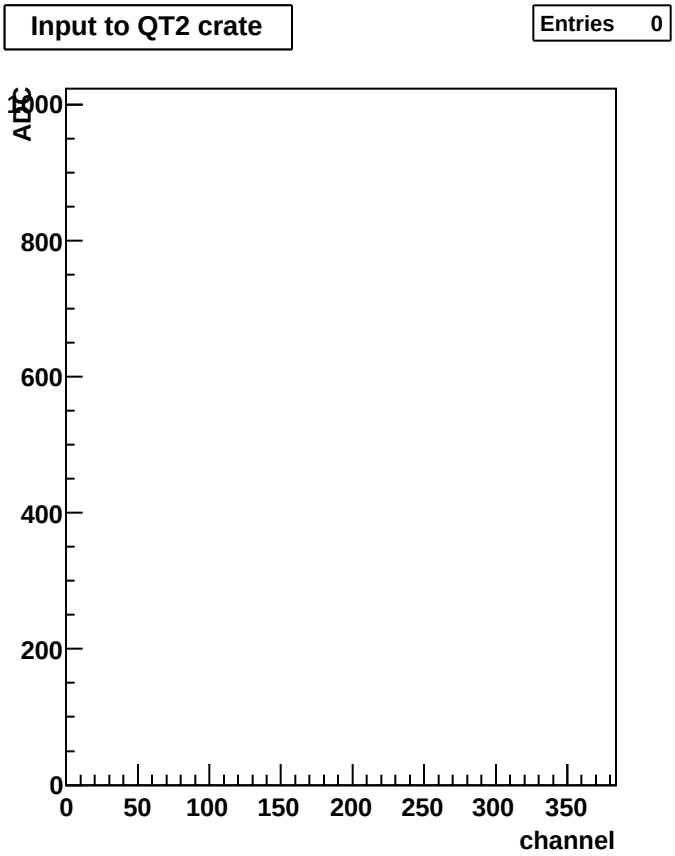
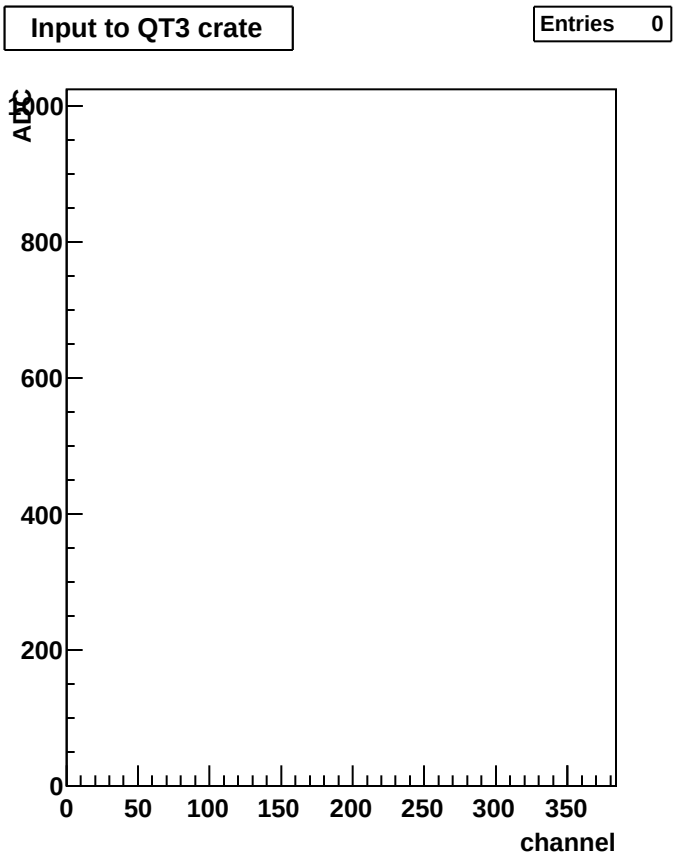
BBC-S-East ADC Sum
BBC-S-West ADC Sum

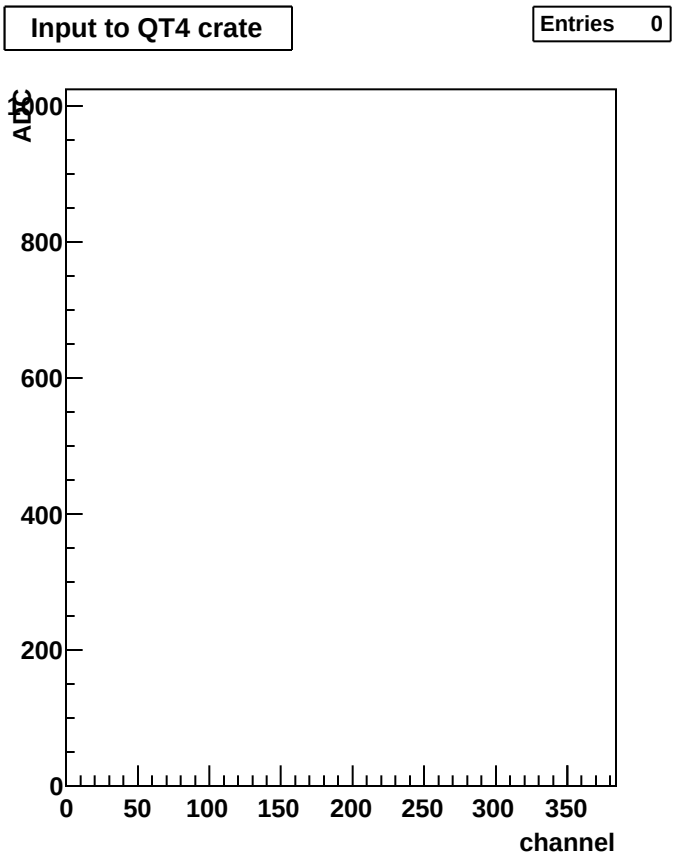

Entries 220780
ZDC East ADC Sum Att
ZDC West ADC Sum Att

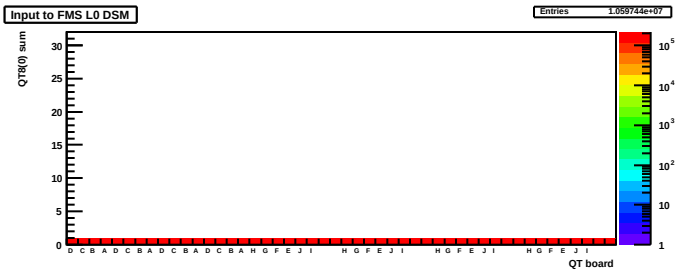

Entries 220780
BBC-L TAC Diff
BCC-S TAC Diff
Entries 220780
BBC-L TAC Diff
VPD TAC Diff
Entries 220780
BBC-L TAC Diff
ZDC TAC Diff
Entries 220780
BBC-S TAC Diff
VPD TAC Diff
Entries 220780
BBC-S TAC Diff
ZDC TAC Diff
Entries 220780
VPD TAC Diff
ZDC TAC Diff

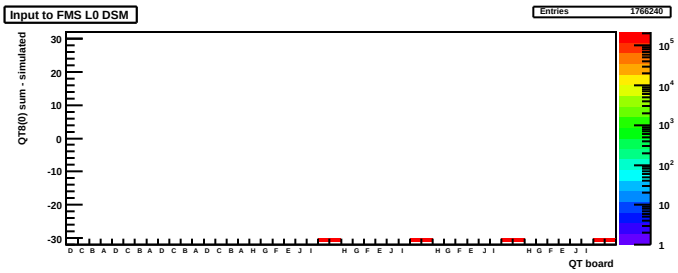

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

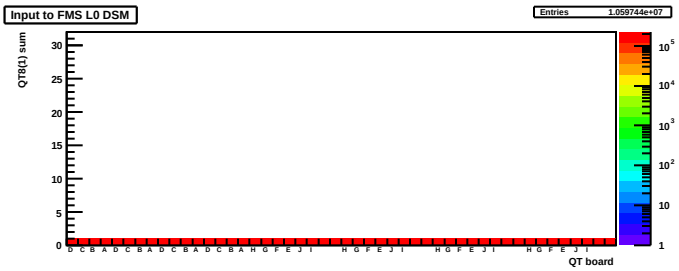

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

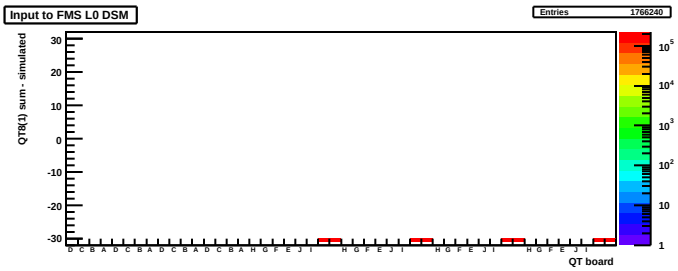

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

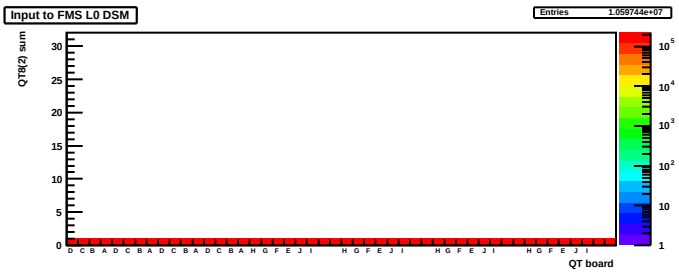

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

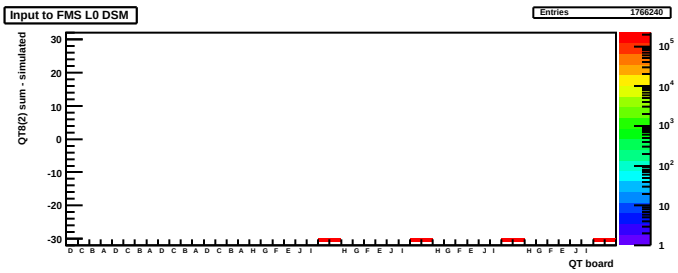

Input to FMS L0 DSM
Entries 1.059744e+07
QT8(0) sum
QT board

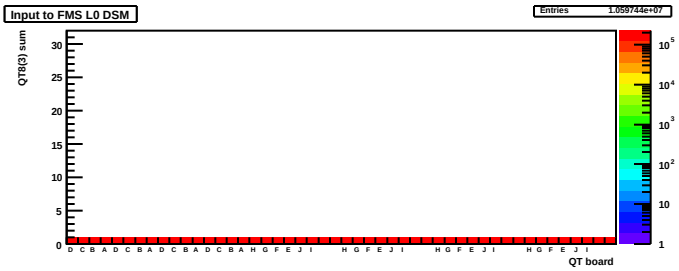

Input to FMS L0 DSM
Entries 1766240
QT8(0) sum - simulated
QT board

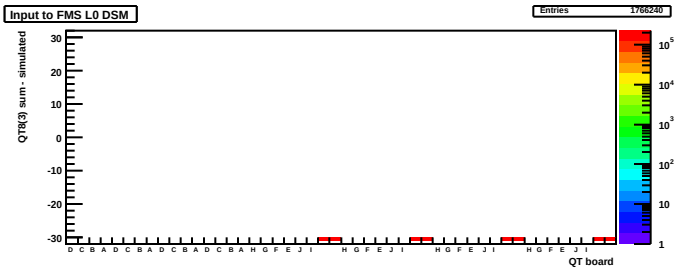

Input to FMS L0 DSM
Entries 1.059744e+07
QT8(1) sum
QT board

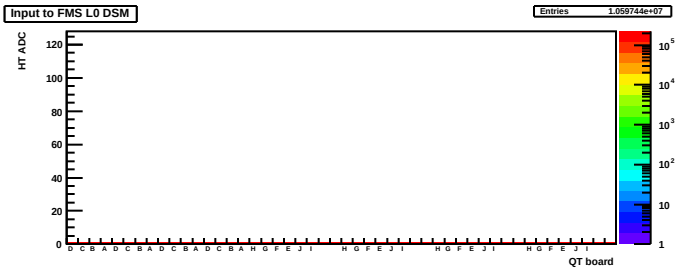

Input to FMS L0 DSM
Entries 1766240
QT8(1) sum - simulated
QT board

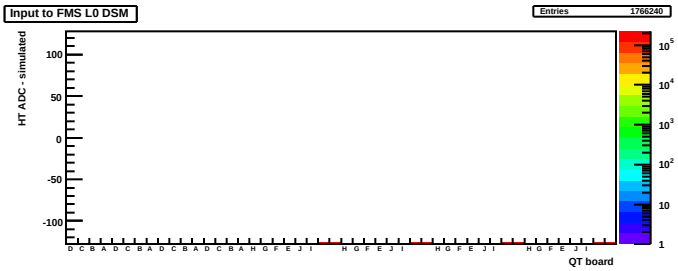

Input to FMS L0 DSM
Entries 1.059744e+07
QT8(2) sum
QT board

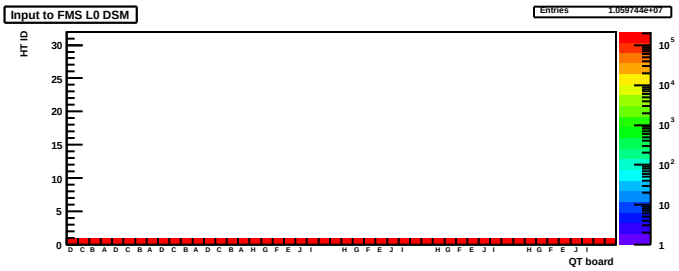

Input to FMS L0 DSM
Entries 1766240
QT8(2) sum - simulated
QT board

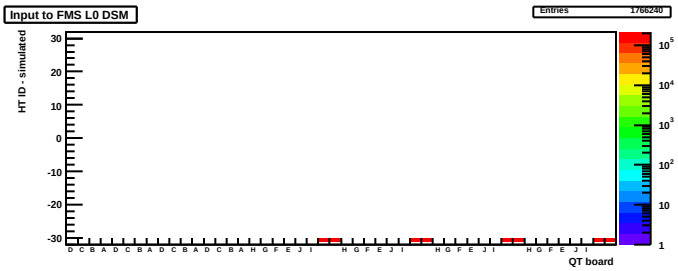

Input to FMS L0 DSM
Entries 1.059744e+07
QT8(3) sum
QT board

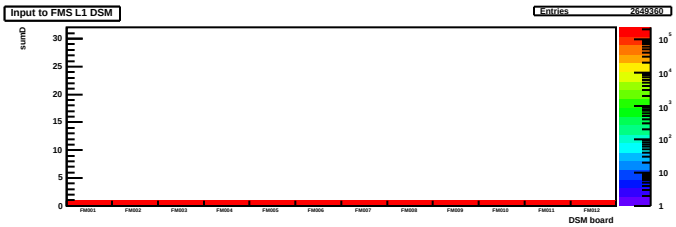

Input to FMS L0 DSM
Entries 1766240
QT8(3) sum - simulated
QT board

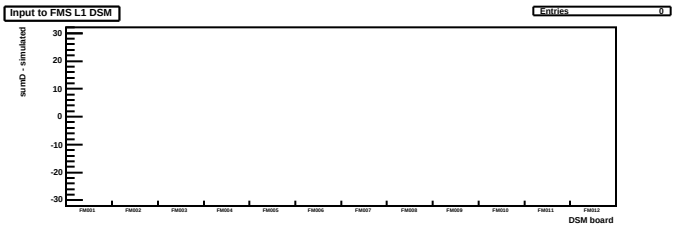

Input to FMS L0 DSM
Entries 1.059744e+07
HT ADC
QT board

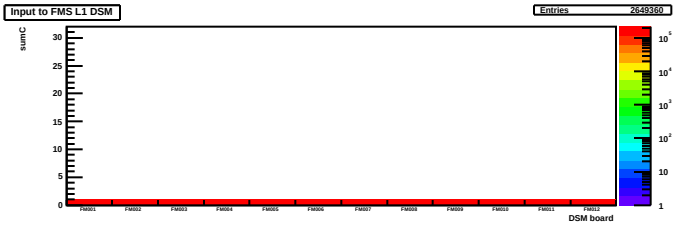

Input to FMS L0 DSM
Entries 1766240
HT ADC - simulated
QT board

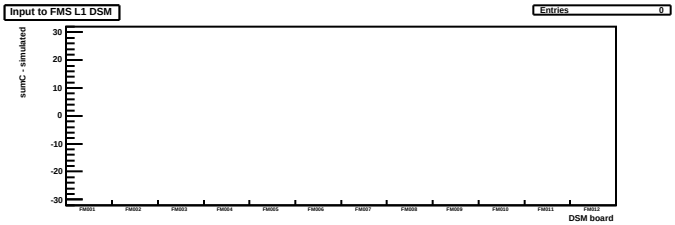

Input to FMS L0 DSM
Entries 1.059744e+07
HT ID
QT board

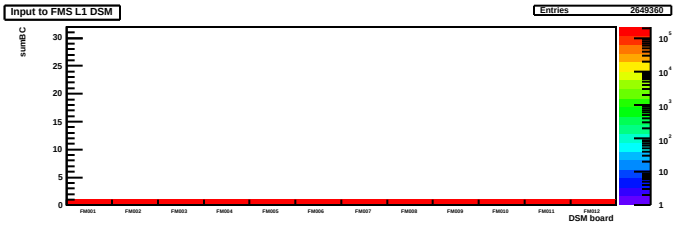

Input to FMS L0 DSM
Entries 1766240
HT ID - simulated
QT board

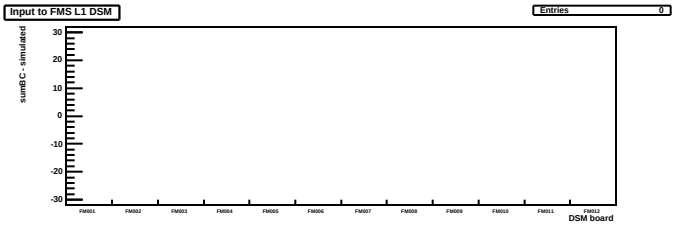

Input to FMS L1 DSM
Entries 2649360
sumD
DSM board

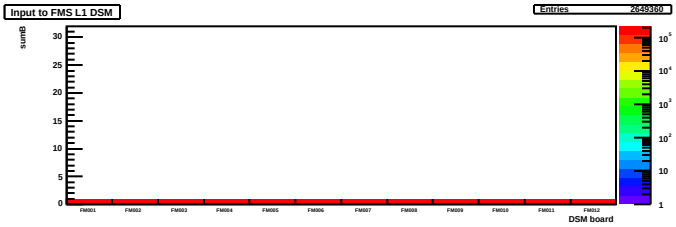

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

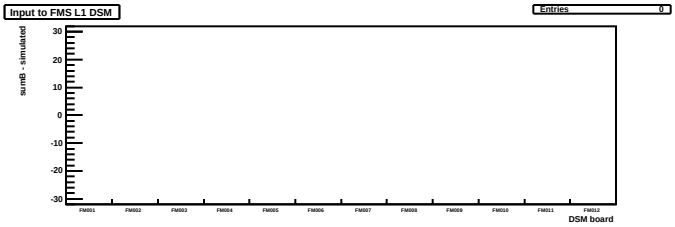

Input to FMS L1 DSM
Entries 2649360
sumC
DSM board

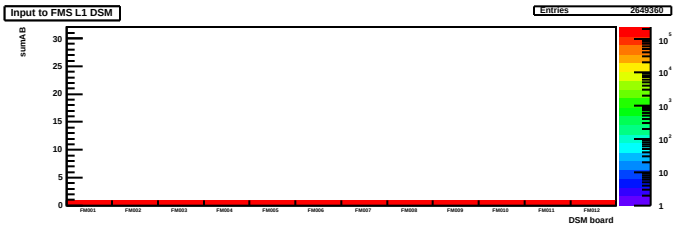

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

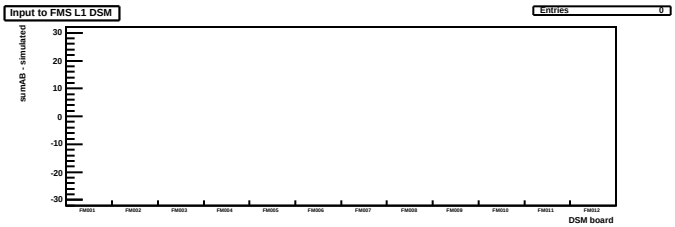

Input to FMS L1 DSM
Entries 2649360
sumBC
DSM board

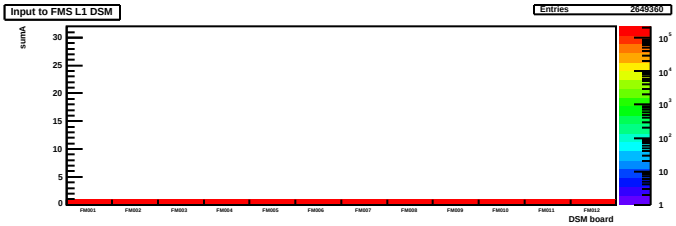

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

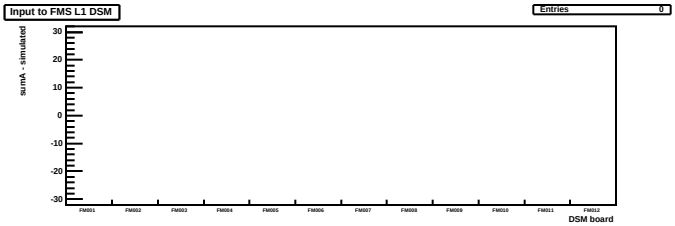

Input to FMS L1 DSM
Entries 2649360
sumB
DSM board

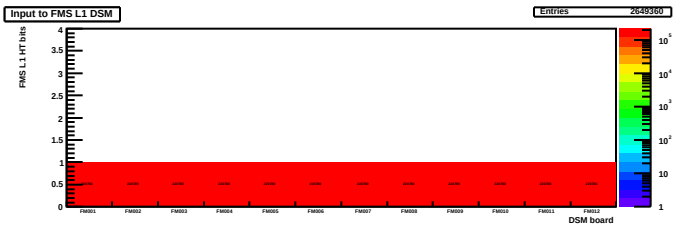

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

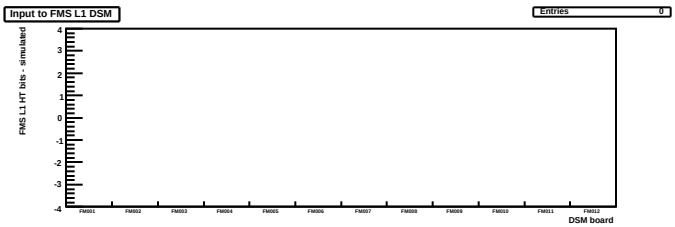

Input to FMS L1 DSM
Entries 2649360
sumAB
DSM board

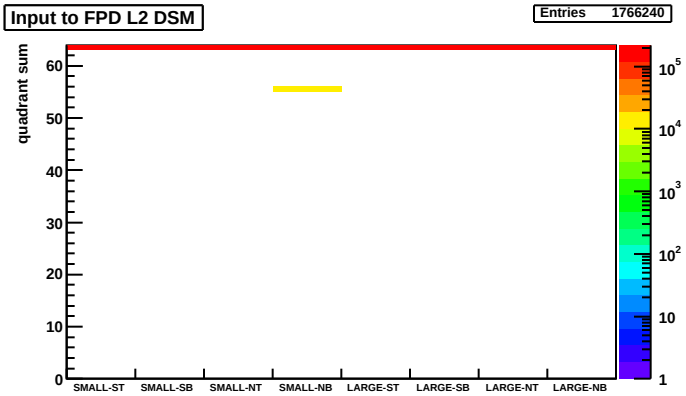

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

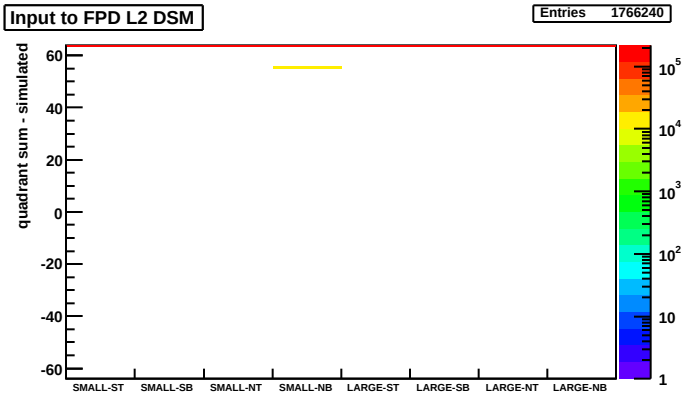

Input to FMS L1 DSM
Entries 2649360
sumA
DSM board

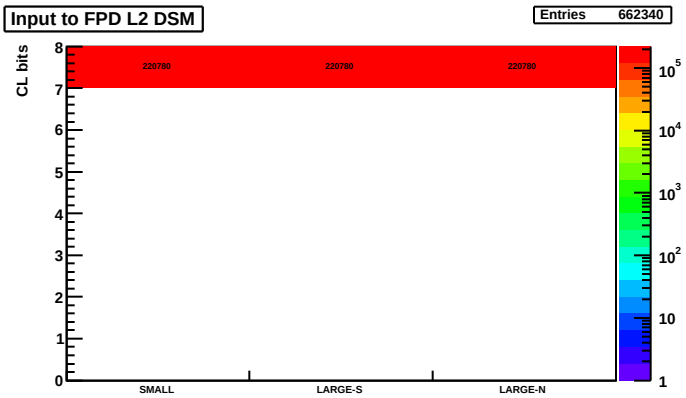

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

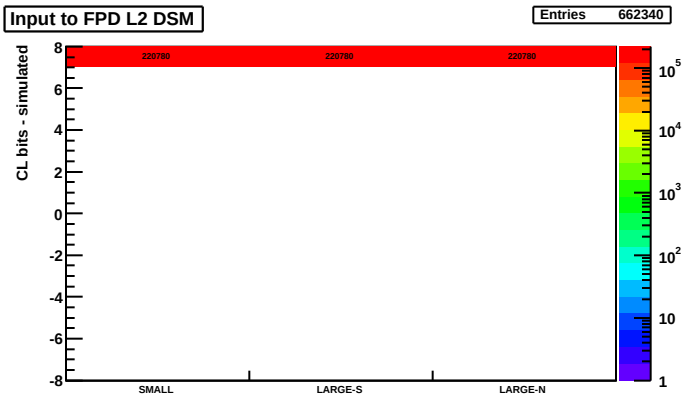

Input to FMS L1 DSM
Entries 2649360
FMS L1 HT bits
DSM board

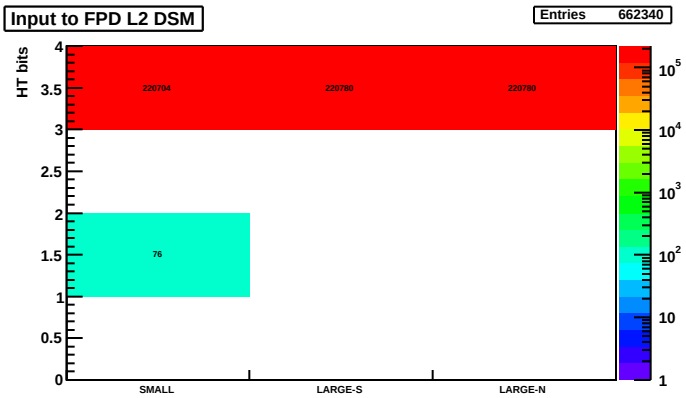

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

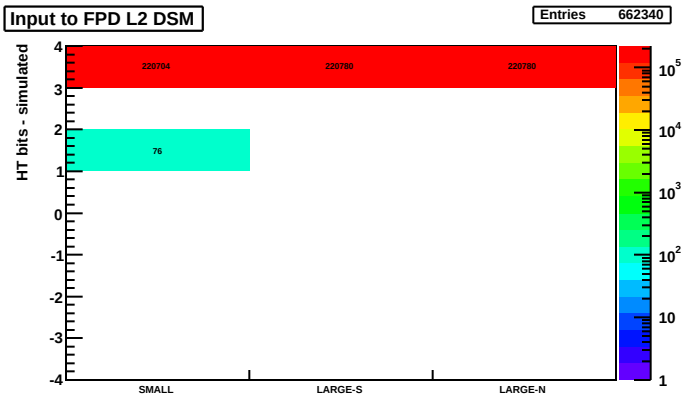

Input to FPD L2 DSM
Entries 1766240
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

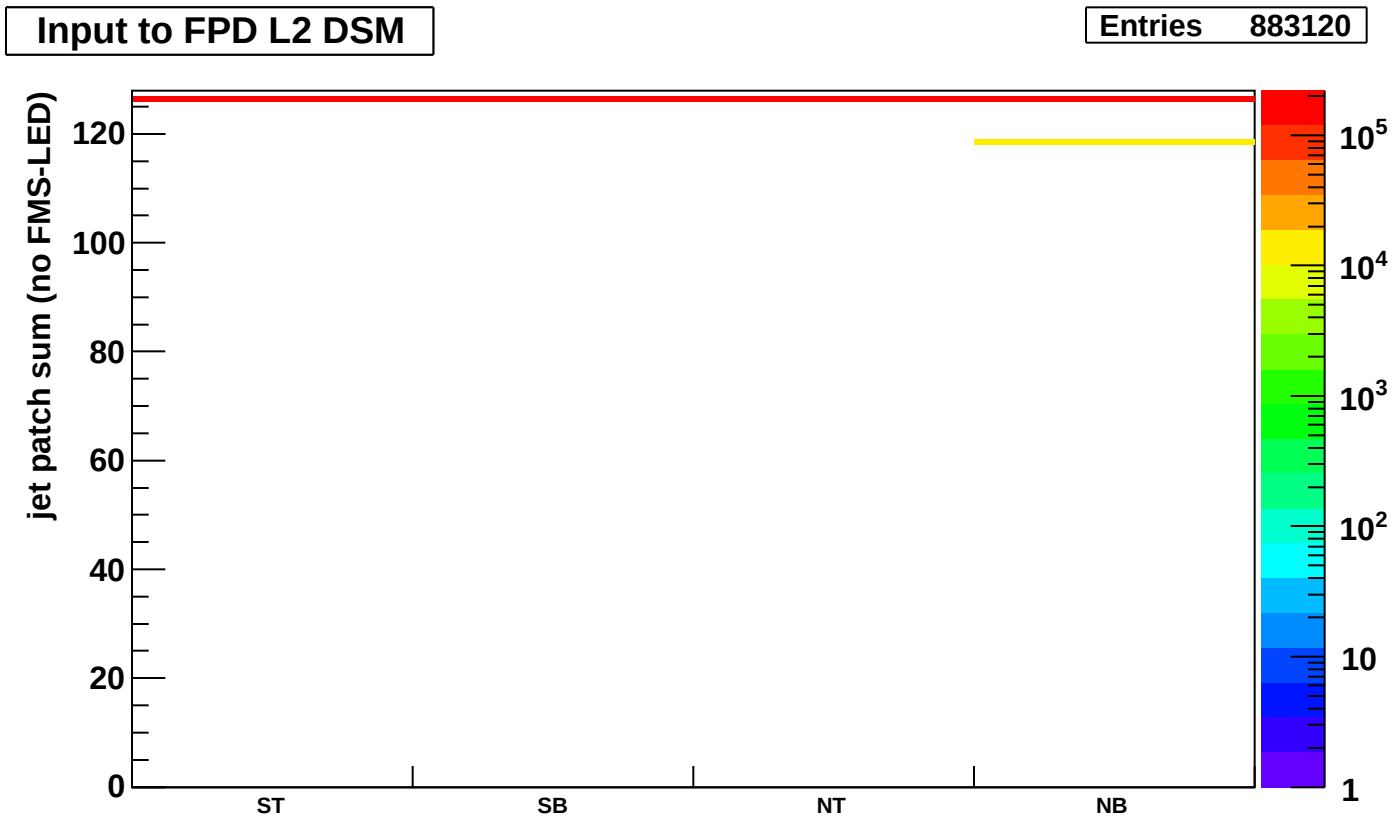

Input to FPD L2 DSM
Entries 1766240
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

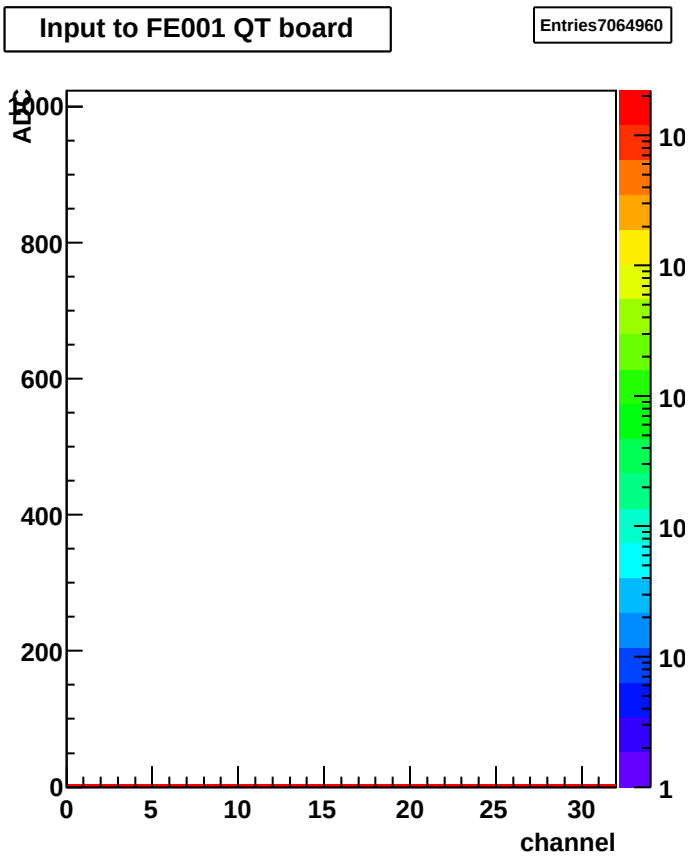

Input to FPD L2 DSM
Entries 662340
CL bits
220780
220780
220780
SMALL
LARGE-S
LARGE-N

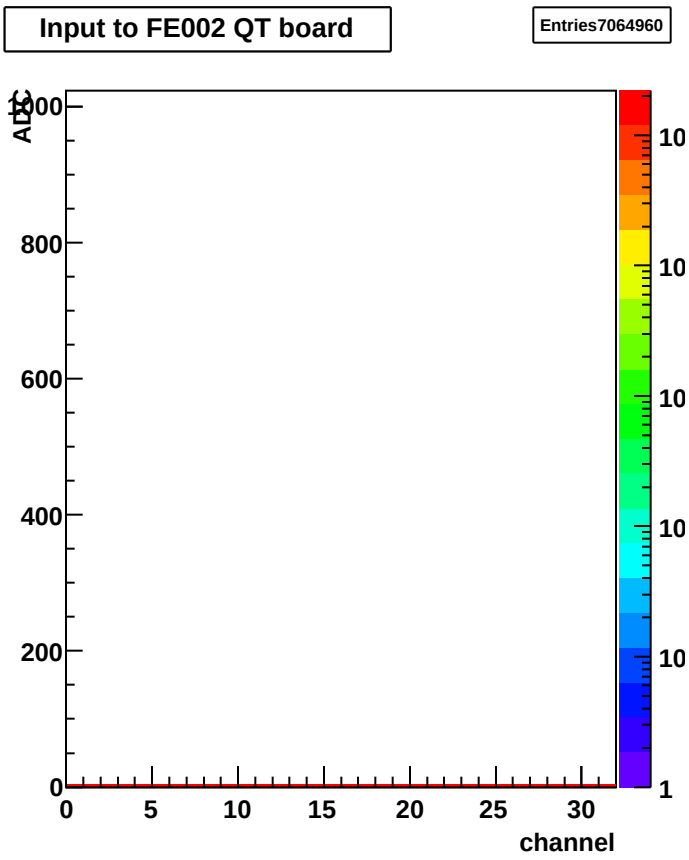

Input to FPD L2 DSM
Entries 662340
CL bits - simulated
220780
220780
220780
SMALL
LARGE-S
LARGE-N

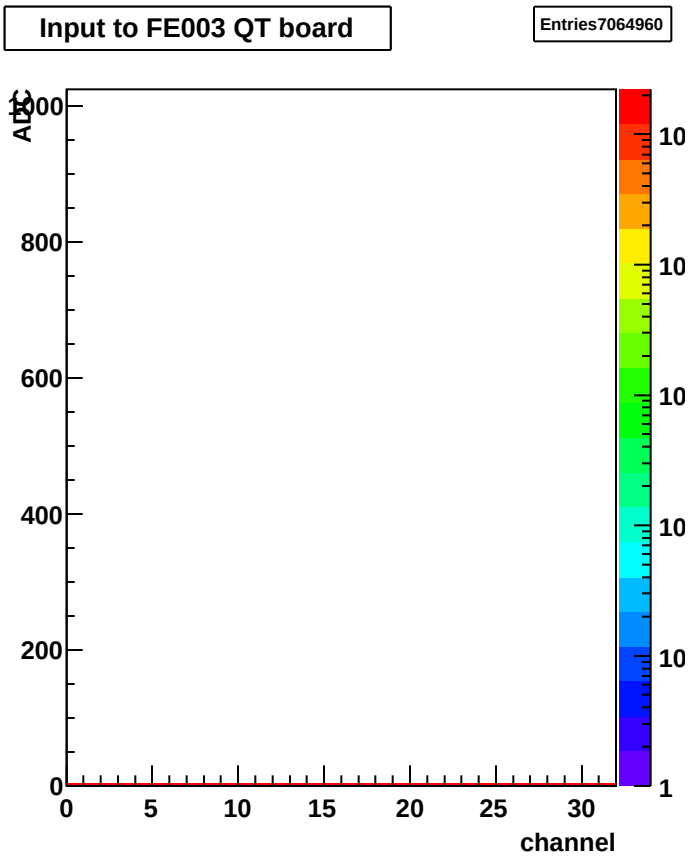

Input to FPD L2 DSM
Entries 662340
HT bits
220704
220780
220780
76
SMALL
LARGE-S
LARGE-N

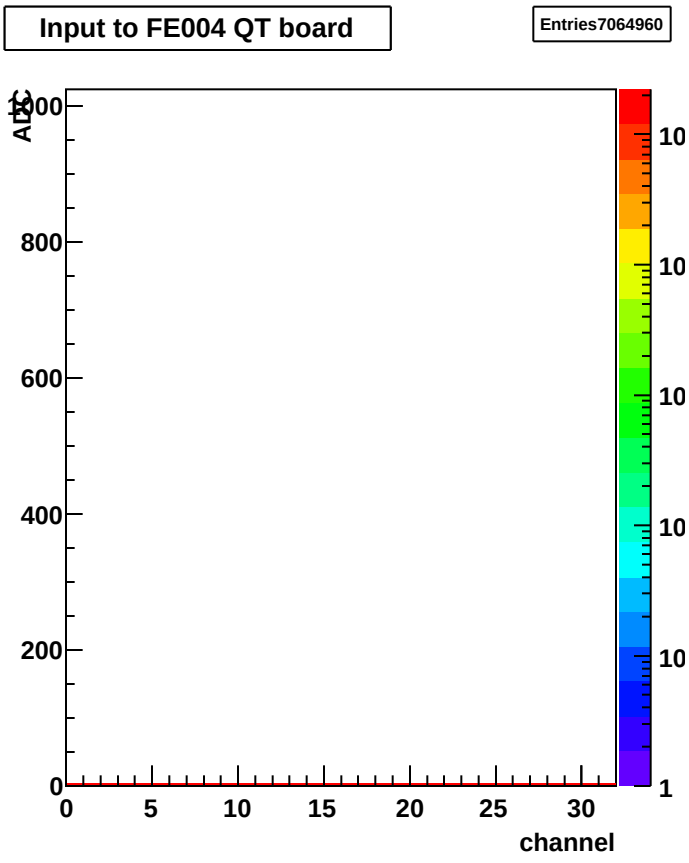

Input to FPD L2 DSM
Entries 662340
HT bits - simulated
220704
220780
220780
76
SMALL
LARGE-S
LARGE-N

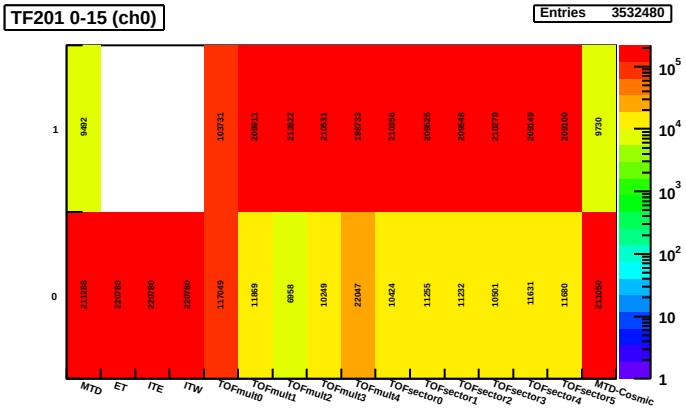

Input to FPD L2 DSM
Entries 883120
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

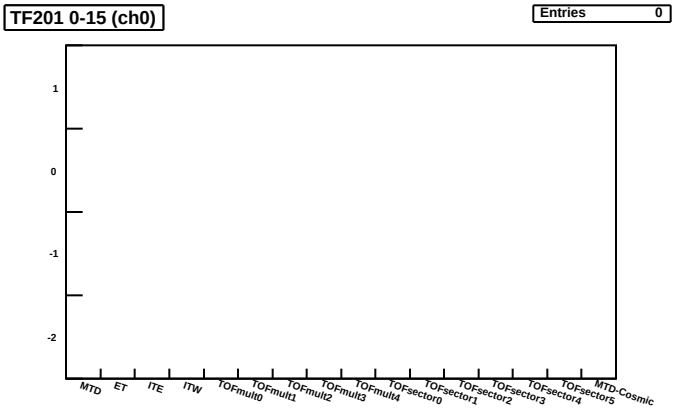

Input to FE001 QT board
Entries7064960
ADC
channel

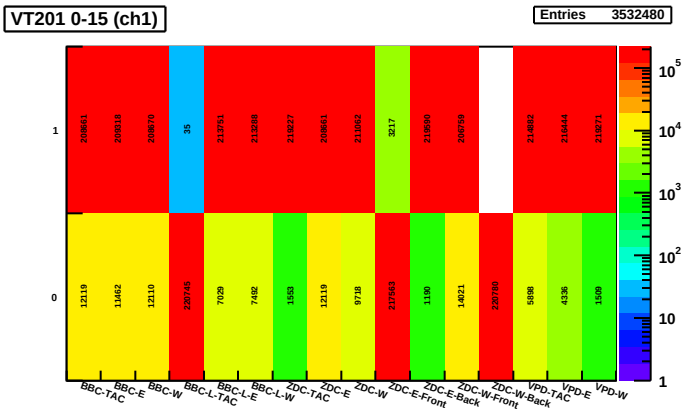

Input to FE002 QT board
Entries7064960
ADC
channel

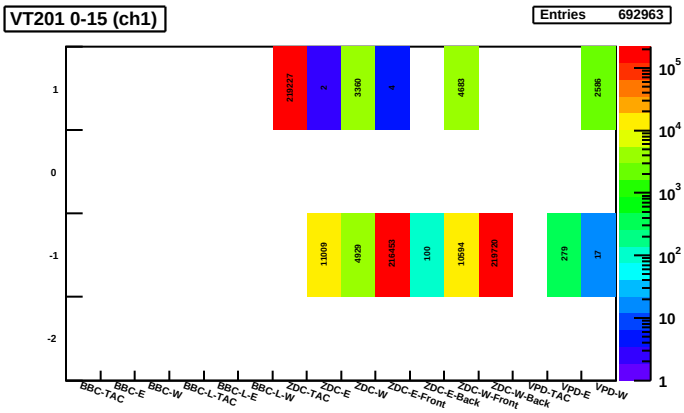

Input to FE003 QT board
Entries7064960
ADC
channel

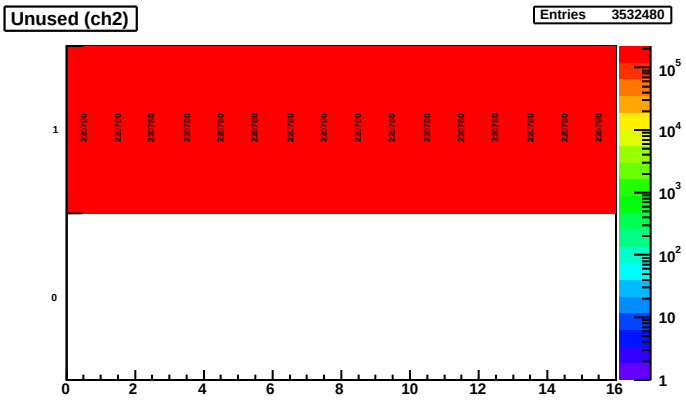

Input to FE004 QT board
Entries7064960
ADC
channel

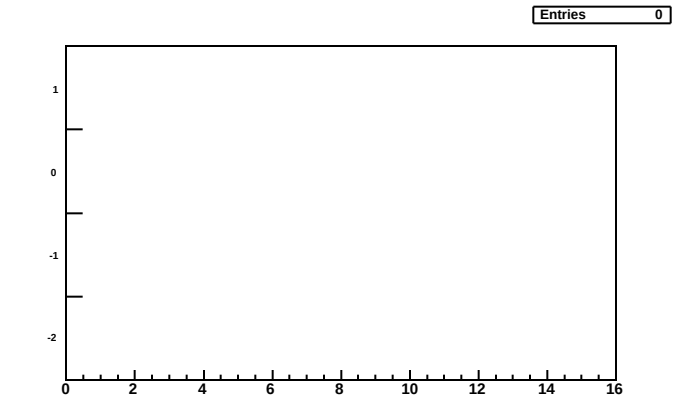

TF201 0-15 (ch0)
Entries 3532480
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

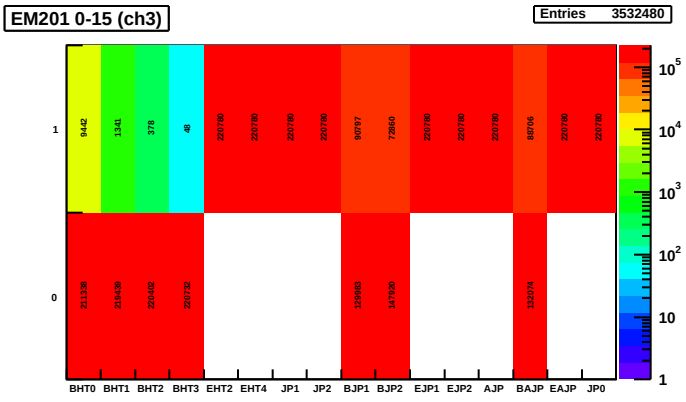

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

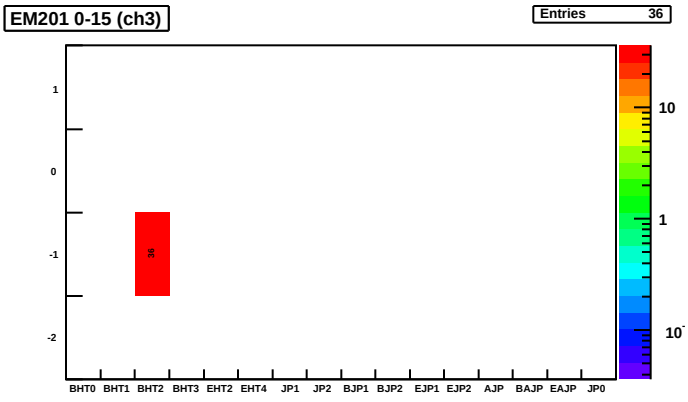

VT201 0-15 (ch1)
Entries 3532480
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

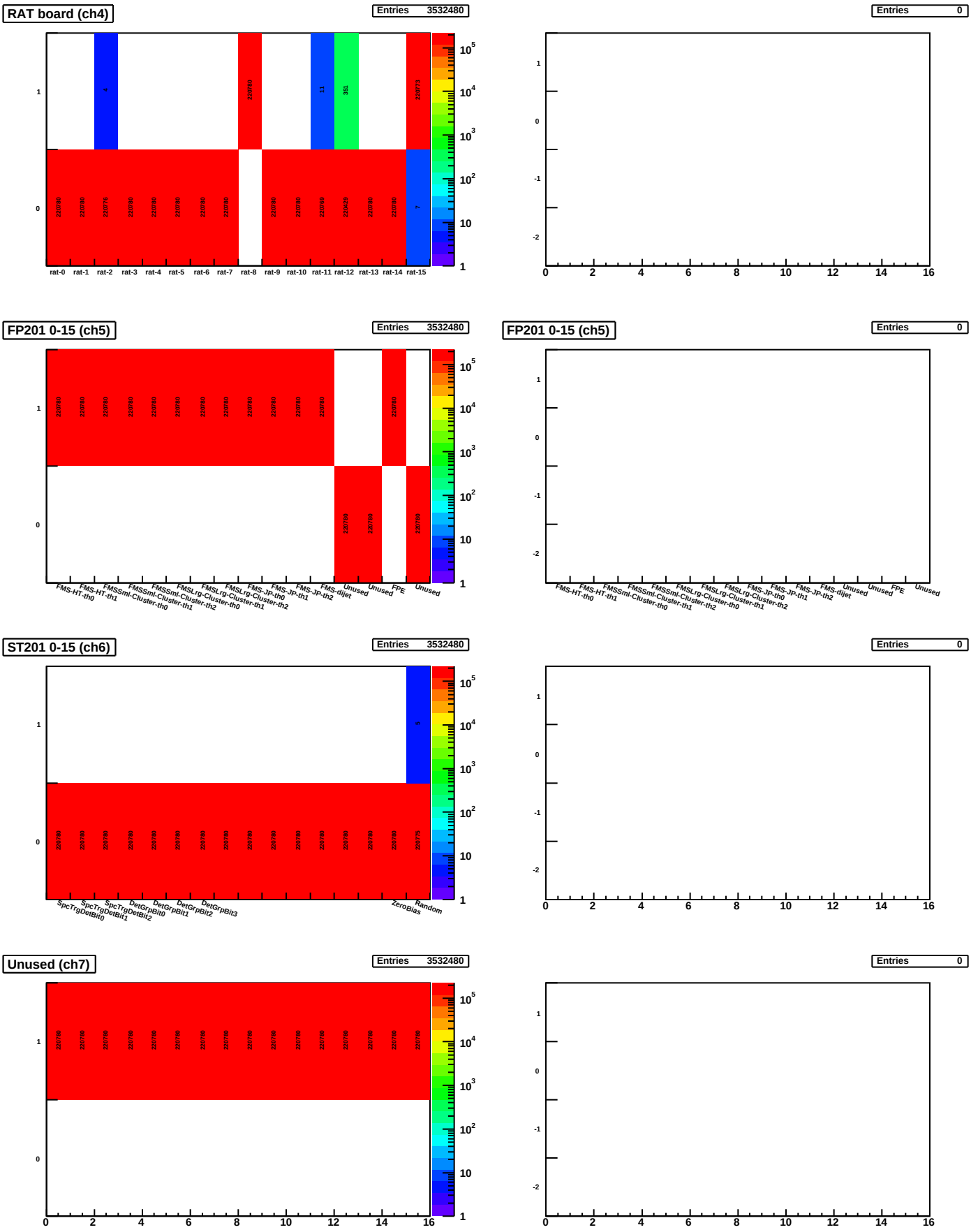

VT201 0-15 (ch1)
Entries 692963
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 3532480


Entries 0


EM201 0-15 (ch3)
Entries 3532480
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0


EM201 0-15 (ch3)
Entries 36
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0


RAT board (ch4)
Entries 3532480
Entries 0
rat-0 rat-1 rat-2 rat-3 rat-4 rat-5 rat-6 rat-7 rat-8 rat-9 rat-10 rat-11 rat-12 rat-13 rat-14 rat-15
FP201 0-15 (ch5)
Entries 3532480
Entries 0
FMS-HT-th0 FMS-HT-th1 FMSSml-Cluster-th0 FMSSml-Cluster-th1 FMSSml-Cluster-th2 FMSLrg-Cluster-th0 FMSLrg-Cluster-th1 FMSLrg-Cluster-th2 FMS-JP-th0 FMS-JP-th1 FMS-JP-th2 FMS-dijet Unused Unused FPE Unused
ST201 0-15 (ch6)
Entries 3532480
Entries 0
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random
Unused (ch7)
Entries 3532480
Entries 0