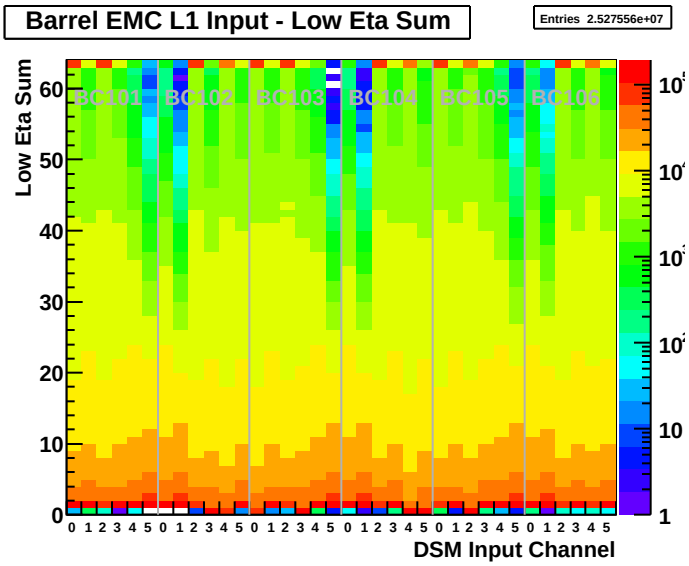
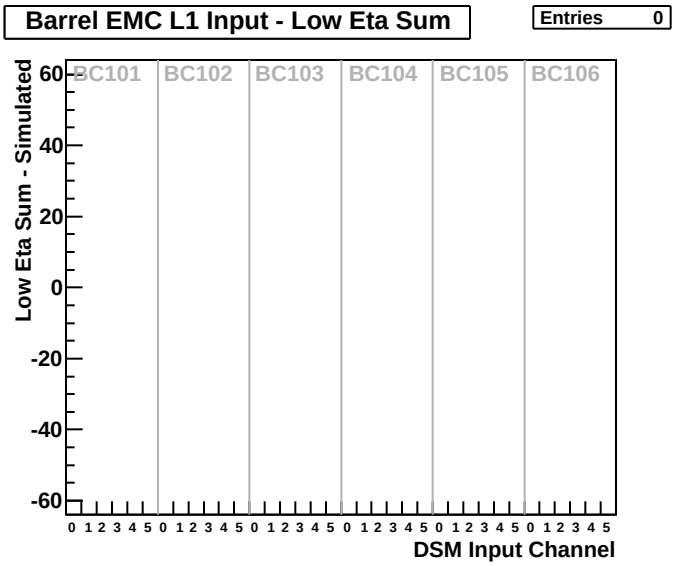
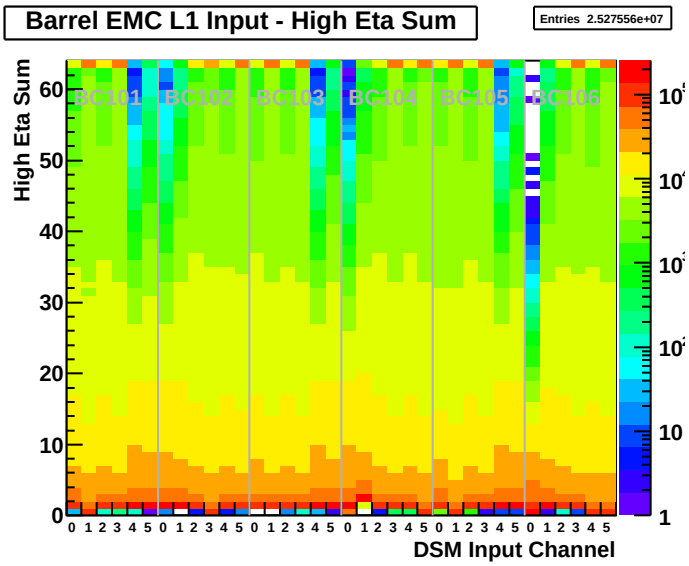
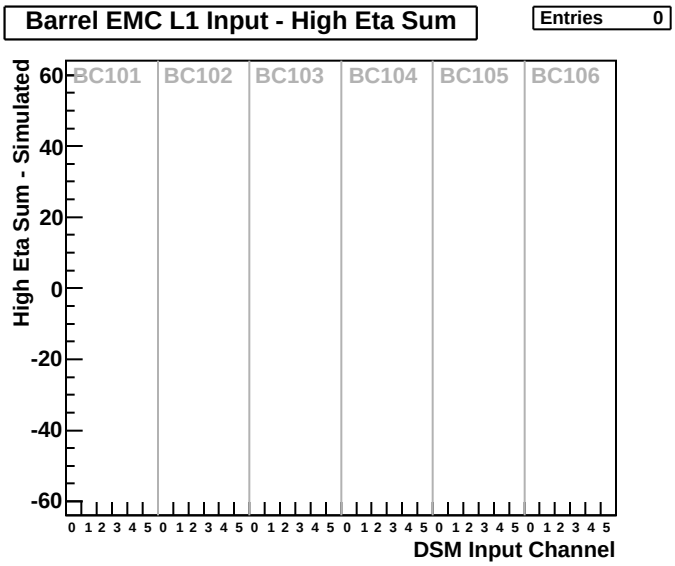
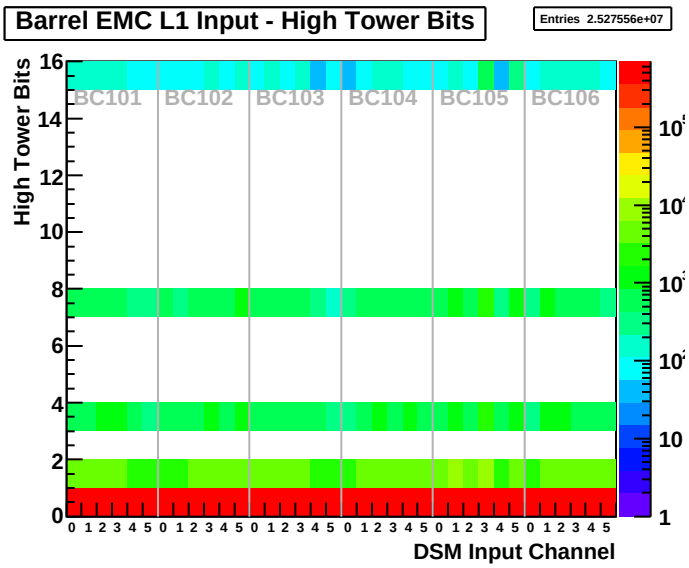
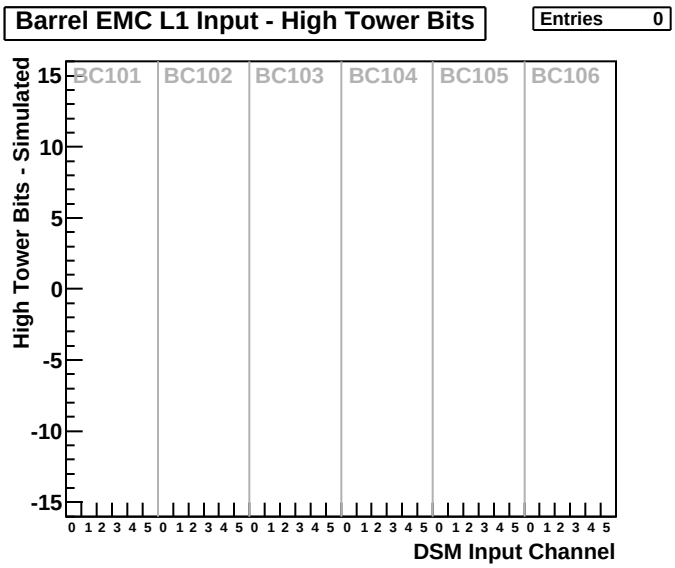

Barrel EMC L1 Input - Low Eta Sum
Entries 2.527556e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

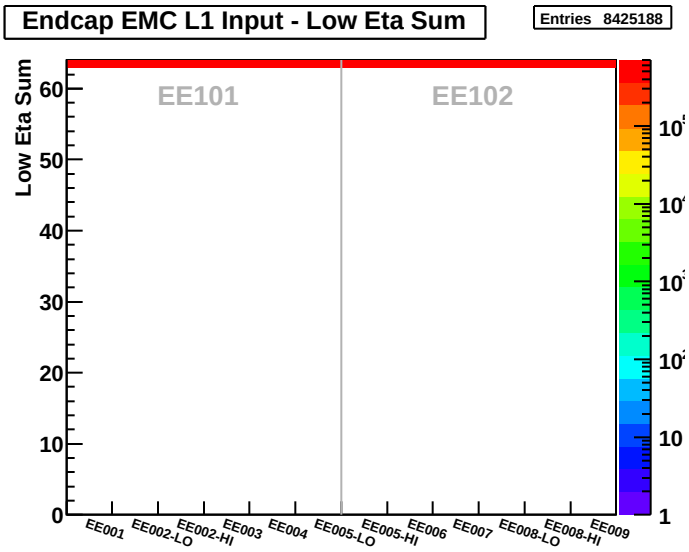

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

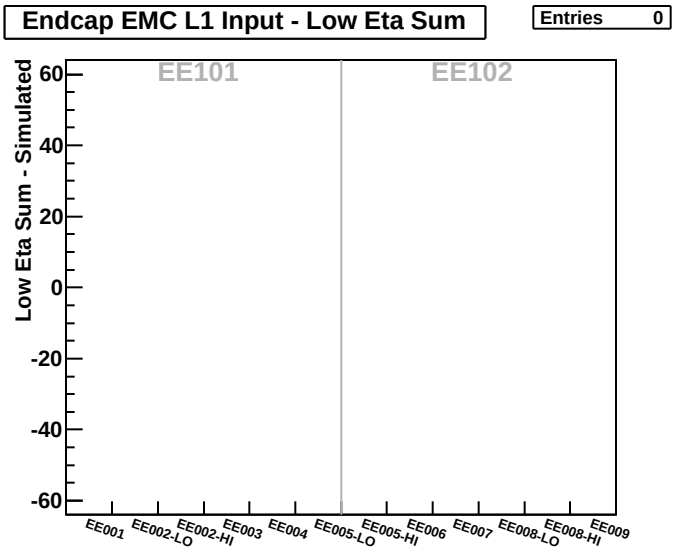

Barrel EMC L1 Input - High Eta Sum
Entries 2.527556e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

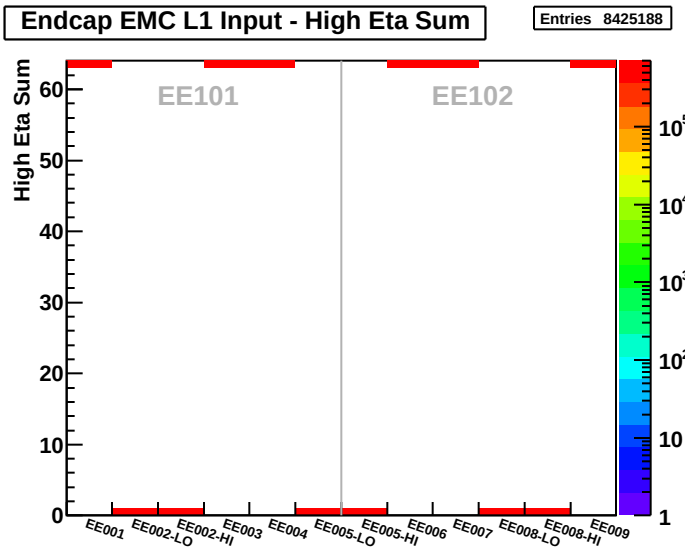

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

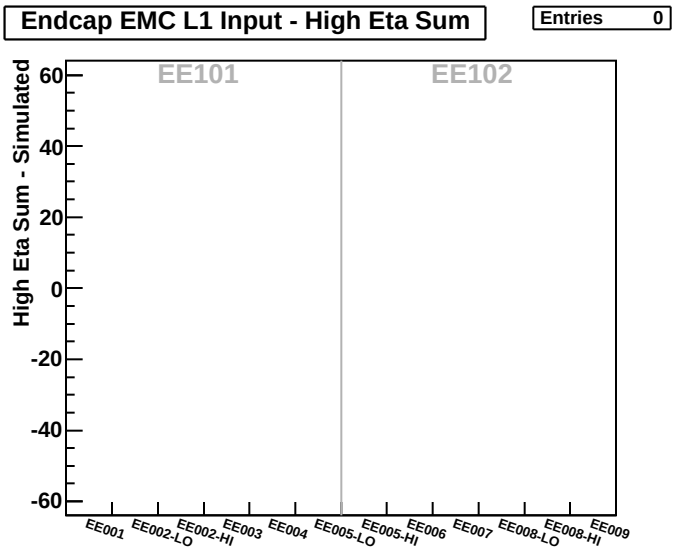

Barrel EMC L1 Input - High Tower Bits
Entries 2.527556e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

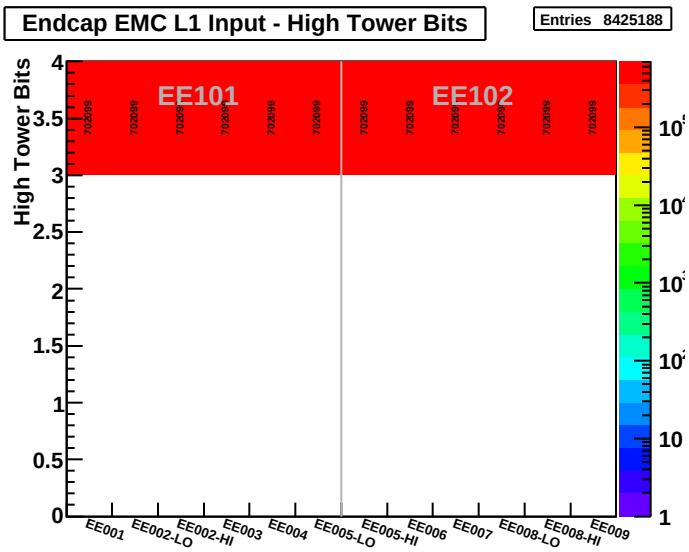

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

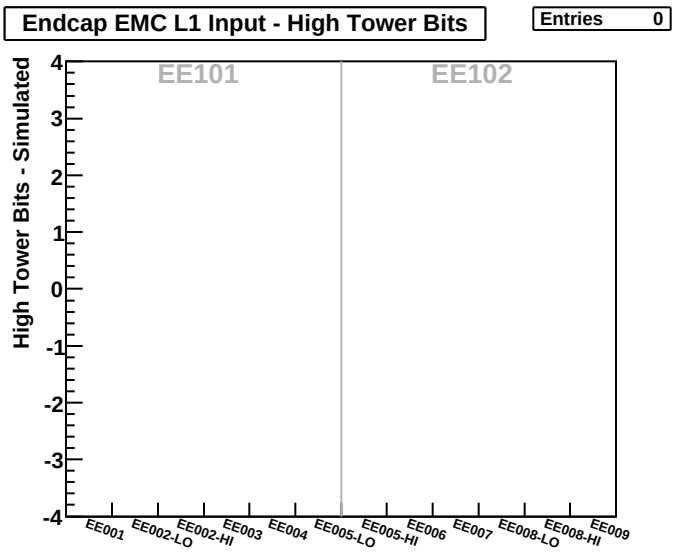

Endcap EMC L1 Input - Low Eta Sum
Entries 8425188
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

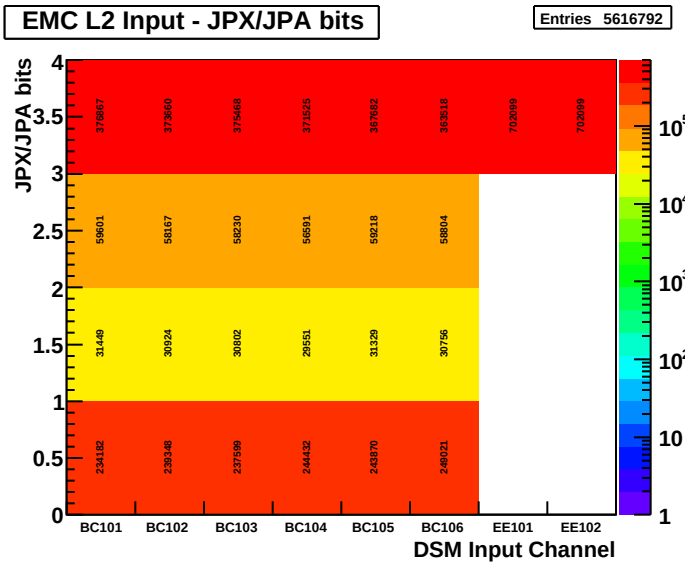

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

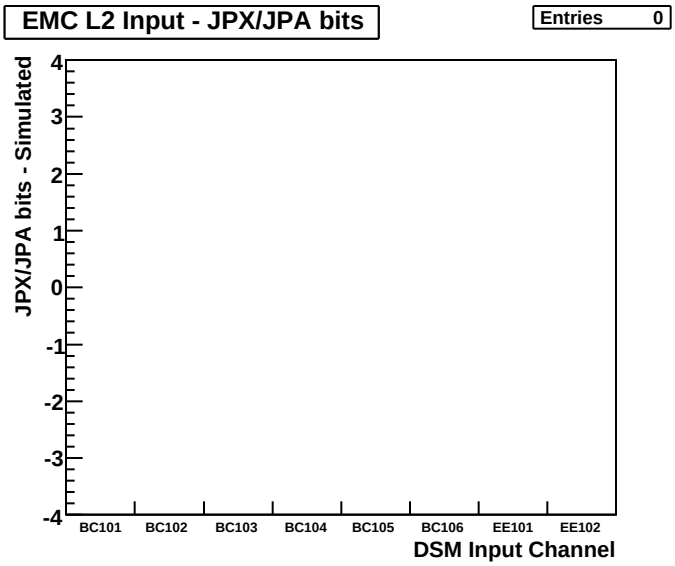

Endcap EMC L1 Input - High Eta Sum
Entries 8425188
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

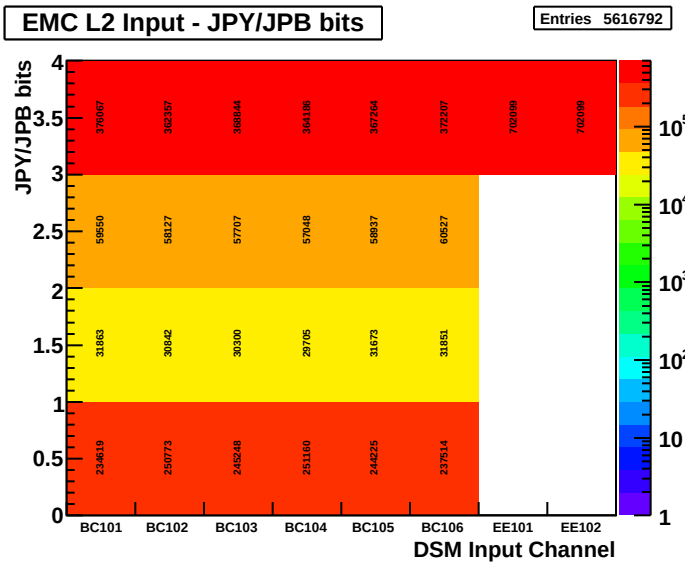

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

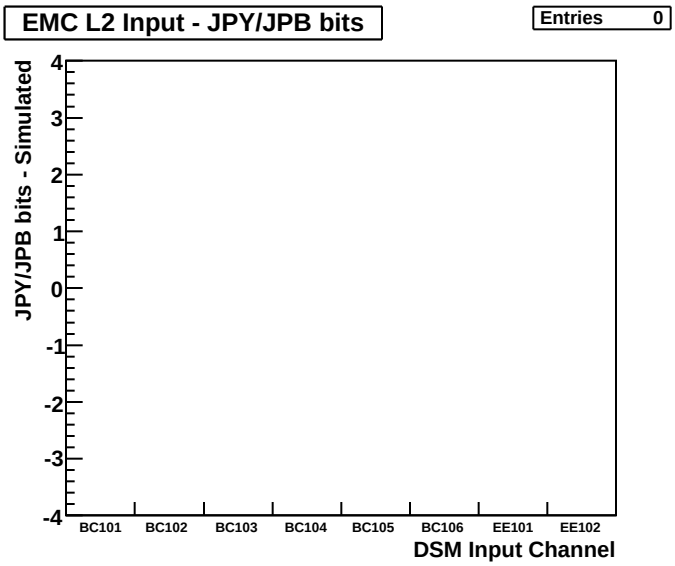

Endcap EMC L1 Input - High Tower Bits
Entries 8425188
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

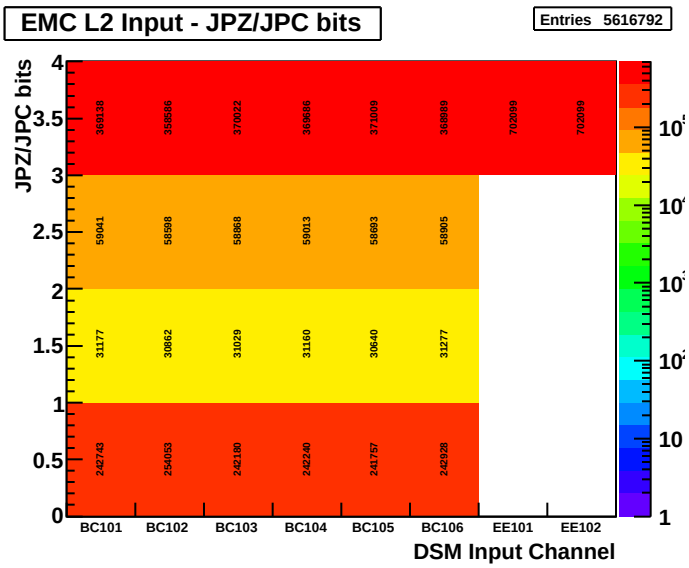

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

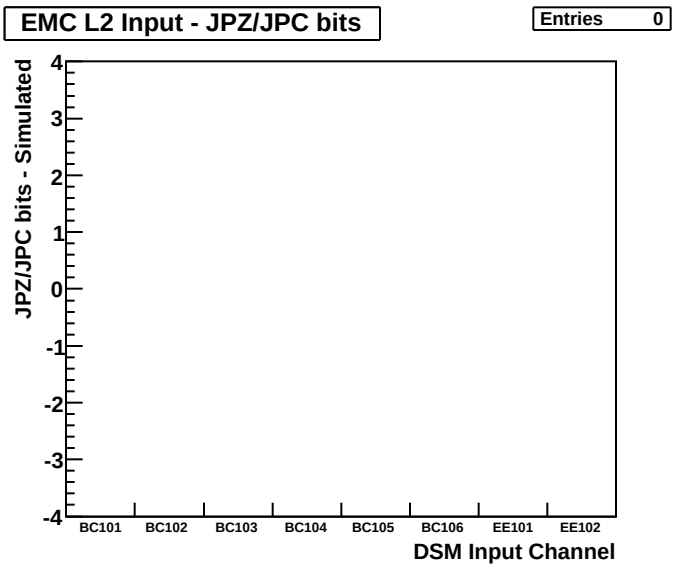

EMC L2 Input - JPX/JPA bits
Entries 5616792
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
376867 373660 375468 371525 367682 363518 702099 702099
59601 58167 58230 56591 59218 58804
31449 30924 30802 29551 31329 30756
234182 239348 237599 244432 243870 249021

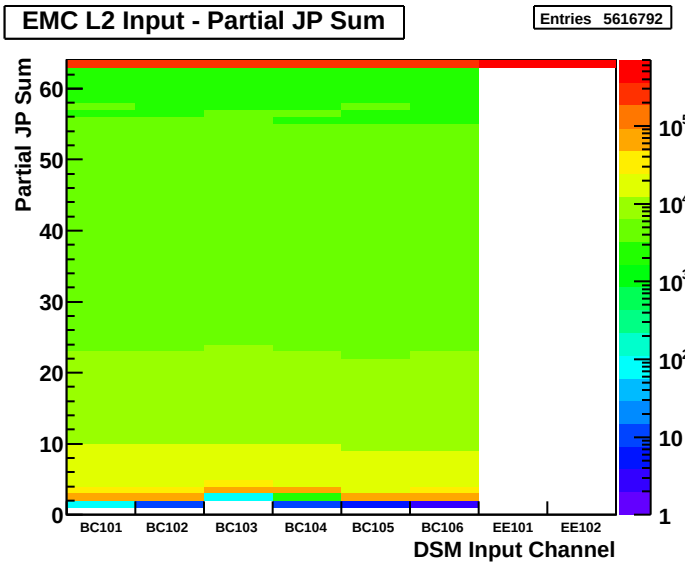

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

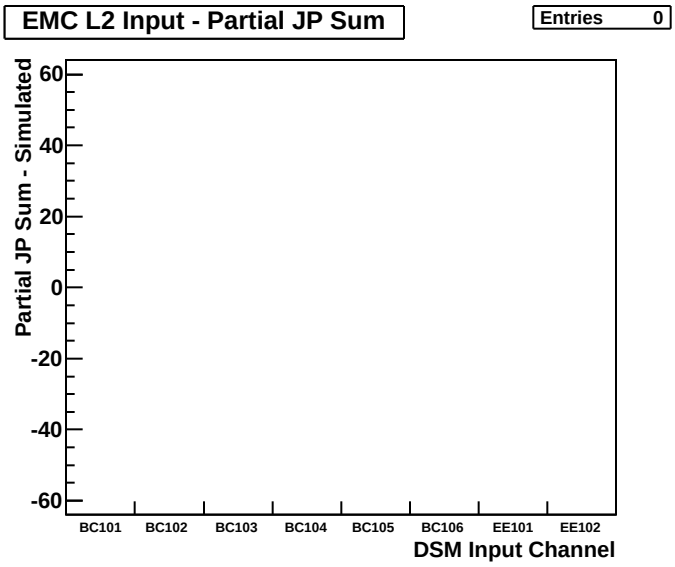

EMC L2 Input - JPY/JPB bits
Entries 5616792
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
376067 362357 368844 364186 367264 372207 702099 702099
59550 58127 57707 57048 58937 60527
31863 30842 30300 29705 31673 31851
234619 250773 248248 251160 244225 237514

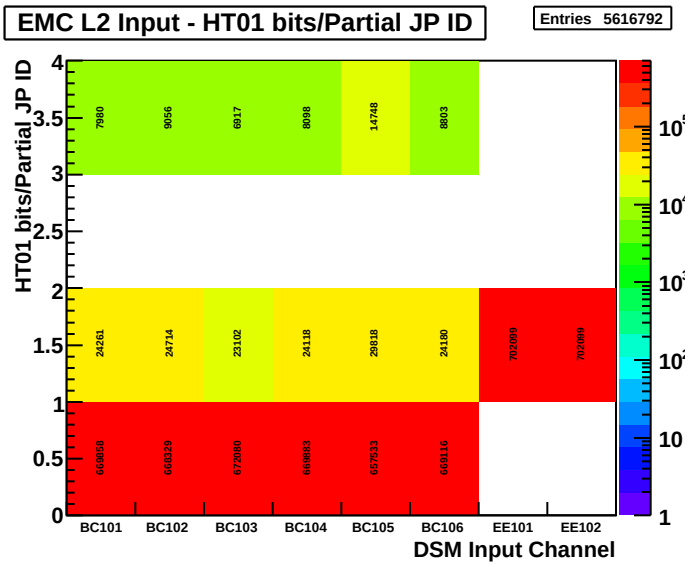

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

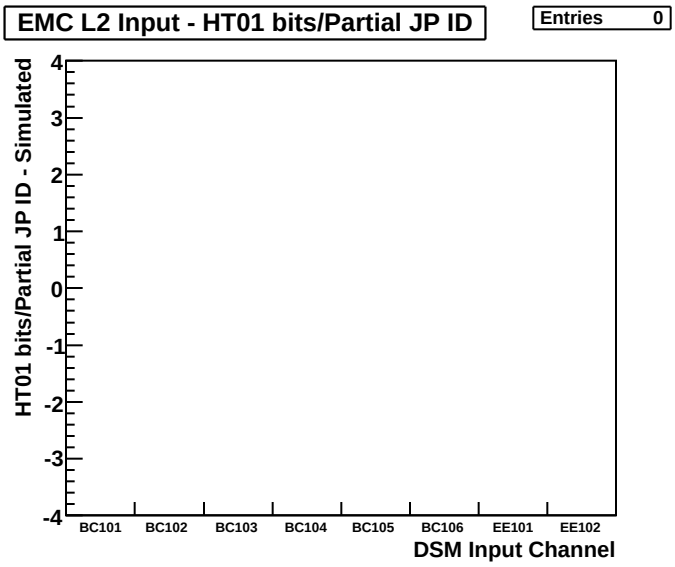

EMC L2 Input - JPZ/JPC bits
Entries 5616792
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
369138 358586 370022 368686 371009 368989 702099 702099
59041 58598 58868 59013 58693 58905
31177 30862 31029 31160 30640 31277
242743 254053 242180 242240 241757 242928

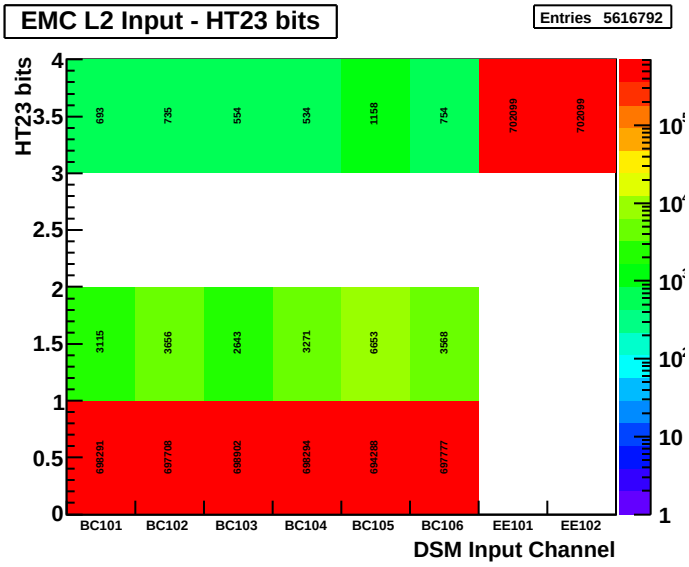

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

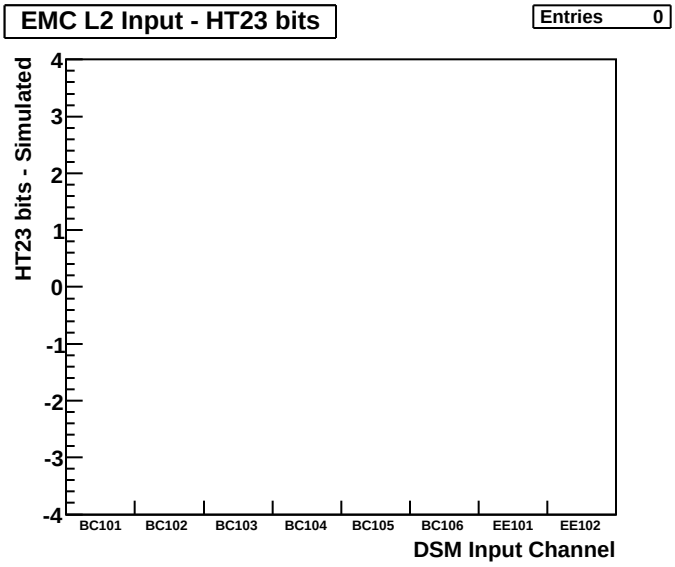

EMC L2 Input - Partial JP Sum
Entries 5616792
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

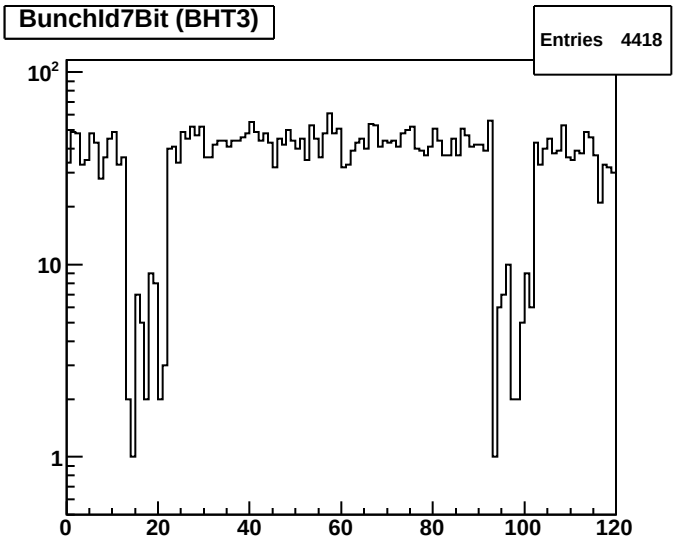

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

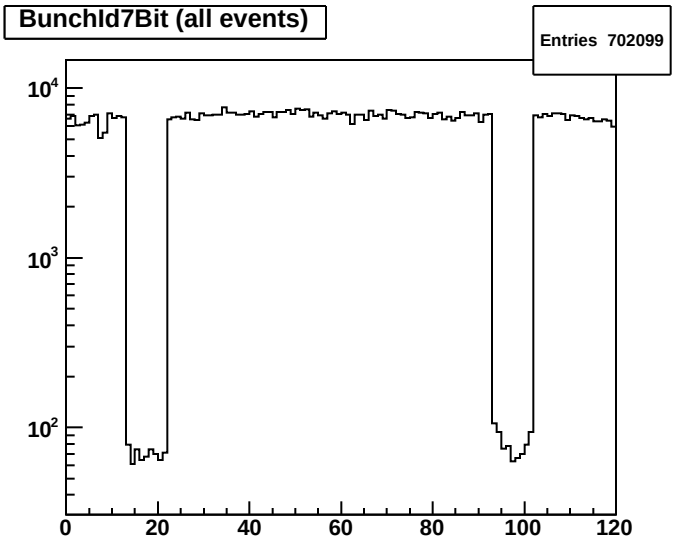

EMC L2 Input - HT01 bits/Partial JP ID
Entries 5616792
HT01 bits/Partial JP ID
7980 9056 6917 8098 14748 8803
24261 24714 23102 24118 29818 24180 702099 702099
668858 668329 672080 669883 657533 669116
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

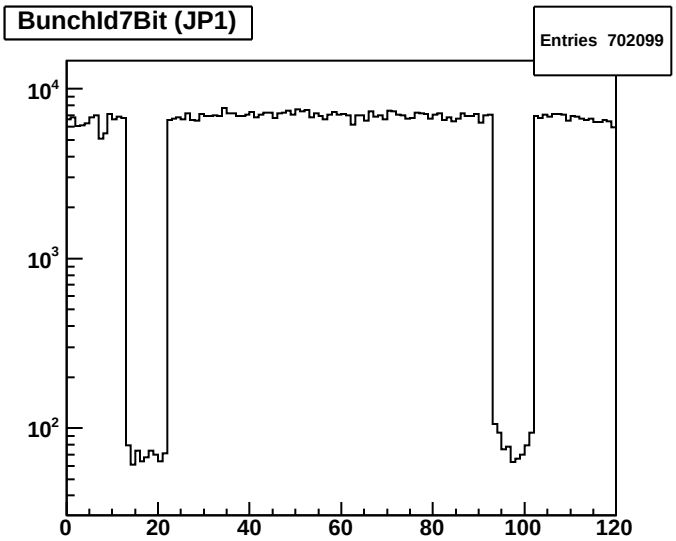

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

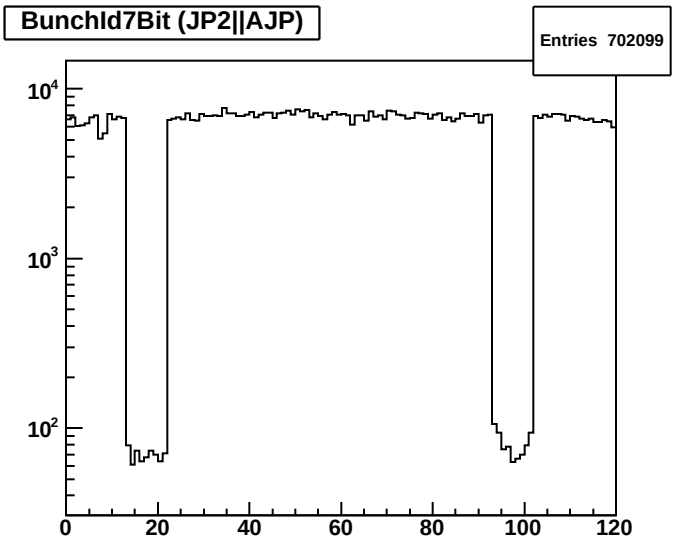

EMC L2 Input - HT23 bits
Entries 5616792
HT23 bits
693 735 554 534 1158 754 702099 702099
3115 3656 2643 3271 6653 3568
698291 697708 698002 698294 694288 697777
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

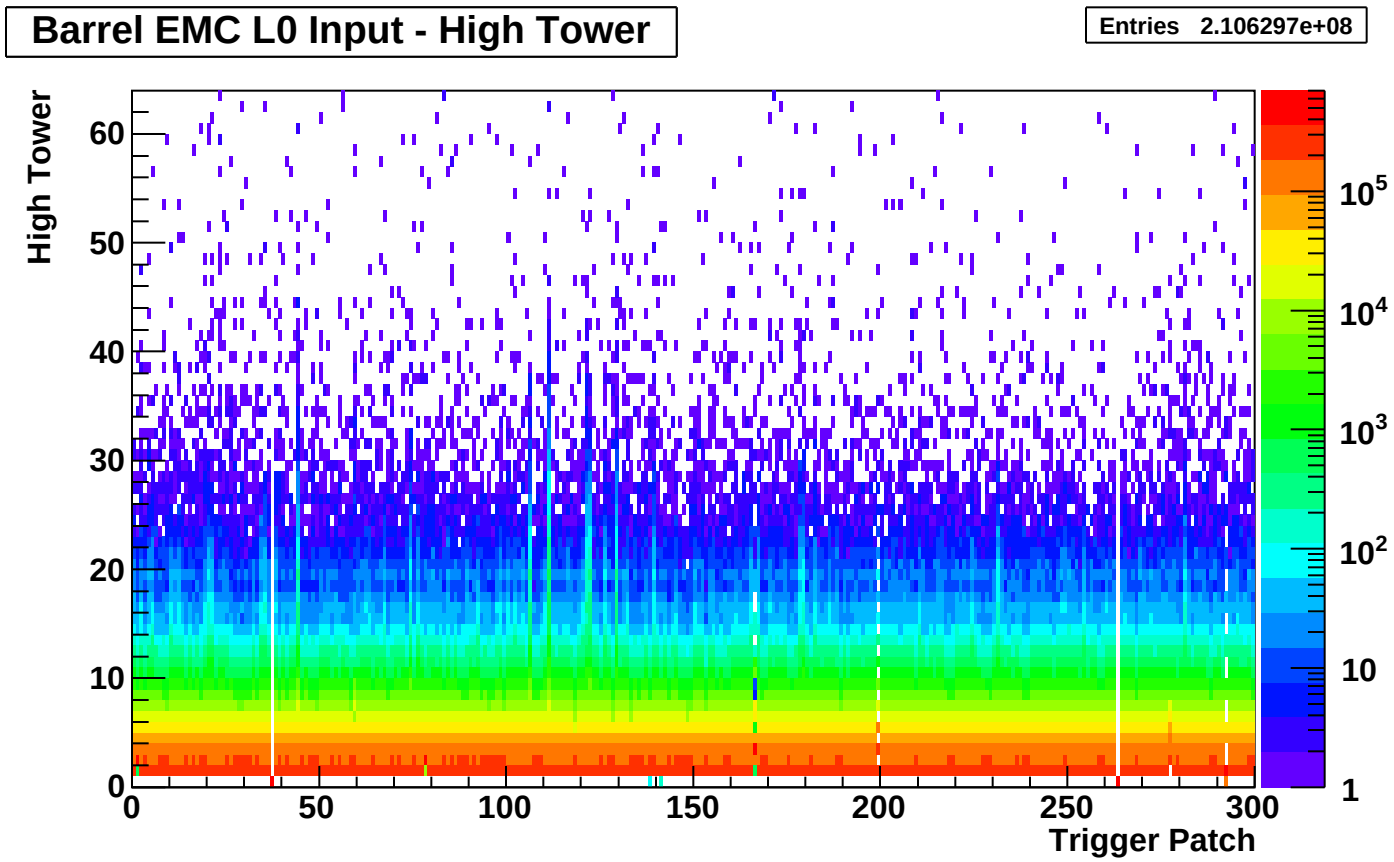

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

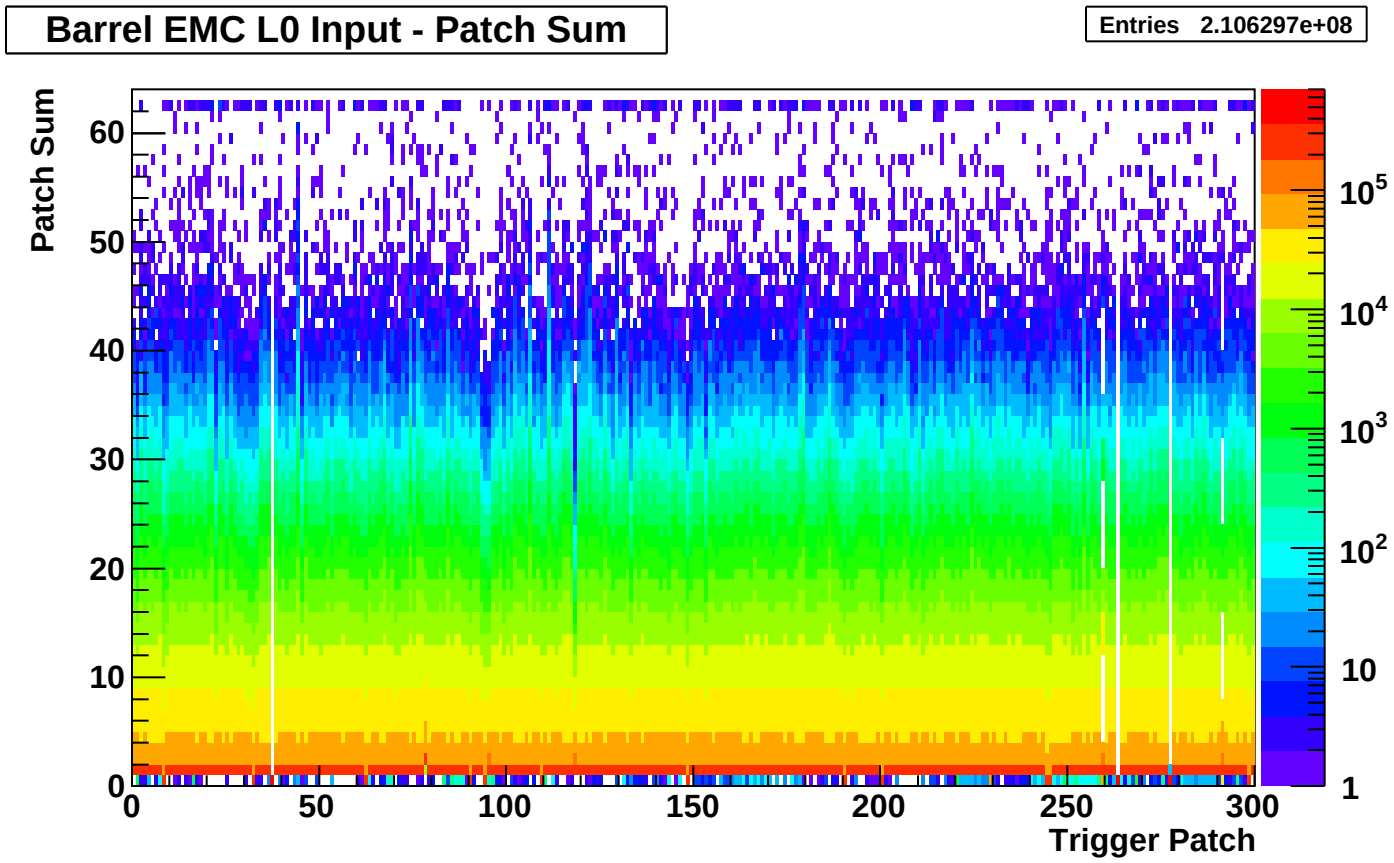

BunchId7Bit (BHT3)
Entries 4418
10^2
10
1
0
20
40
60
80
100
120

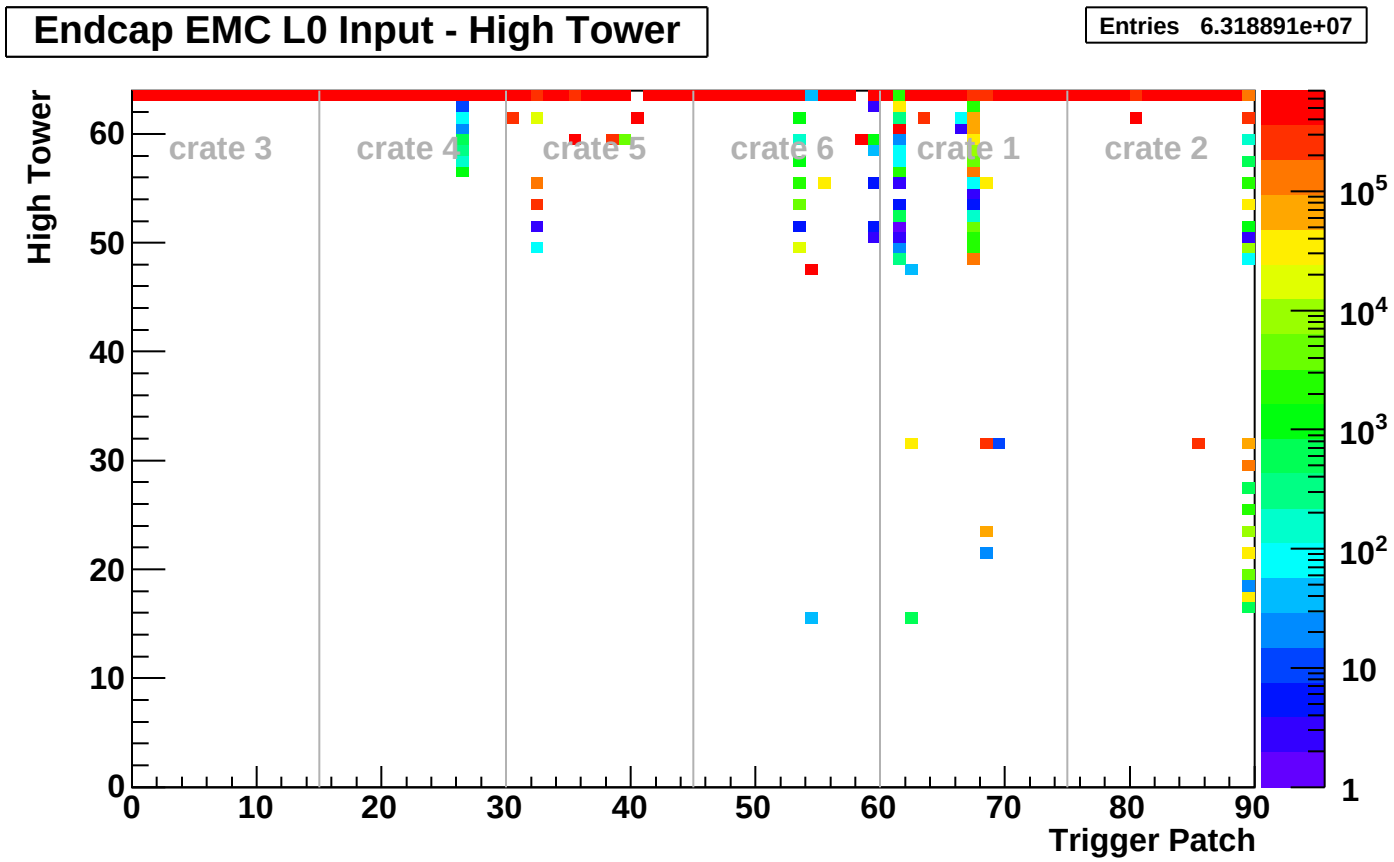

BunchId7Bit (all events)
Entries 702099
10^4
10^3
10^2
0
20
40
60
80
100
120

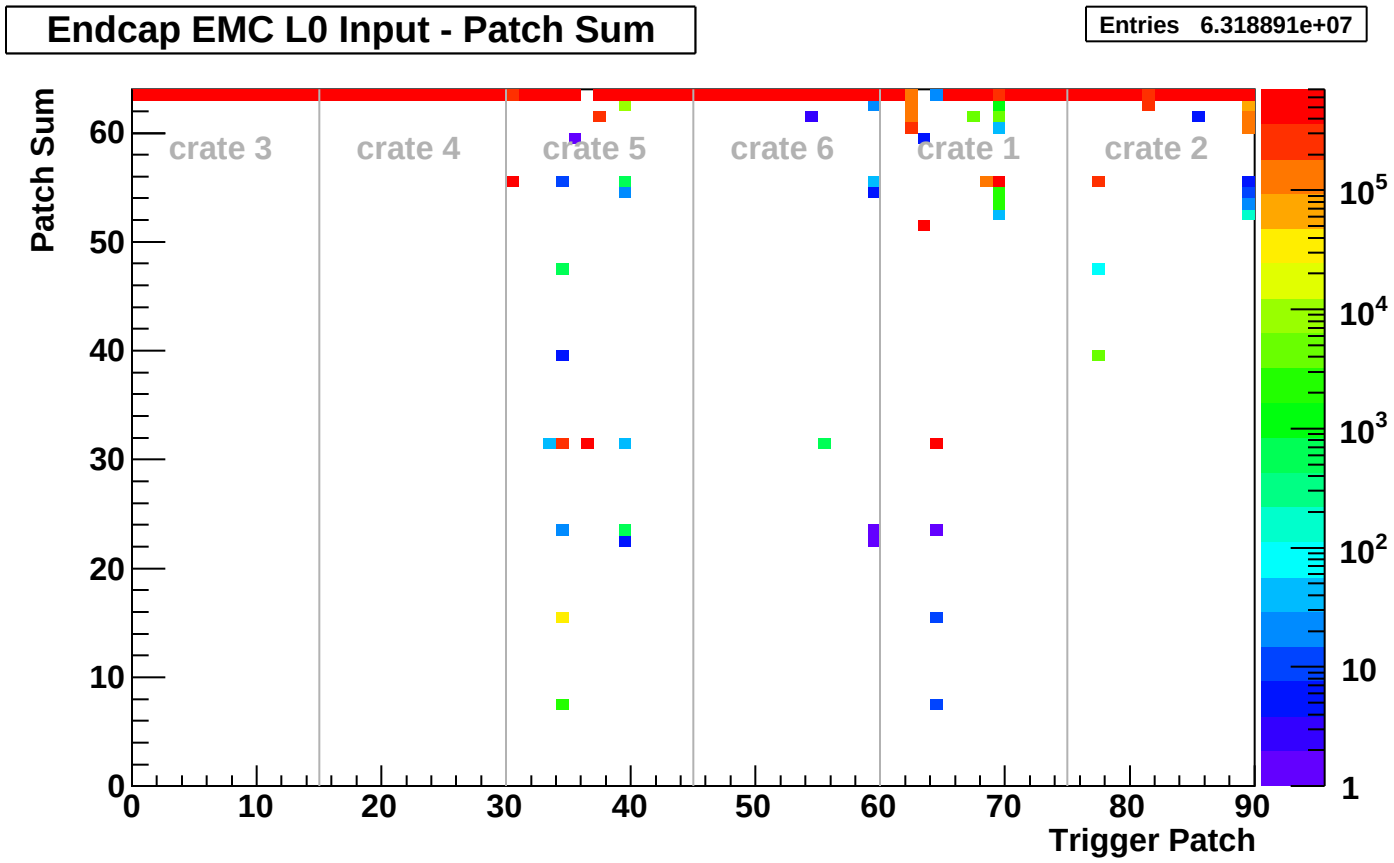

BunchId7Bit (JP1)
Entries 702099
10^4
10^3
10^2
0
20
40
60
80
100
120

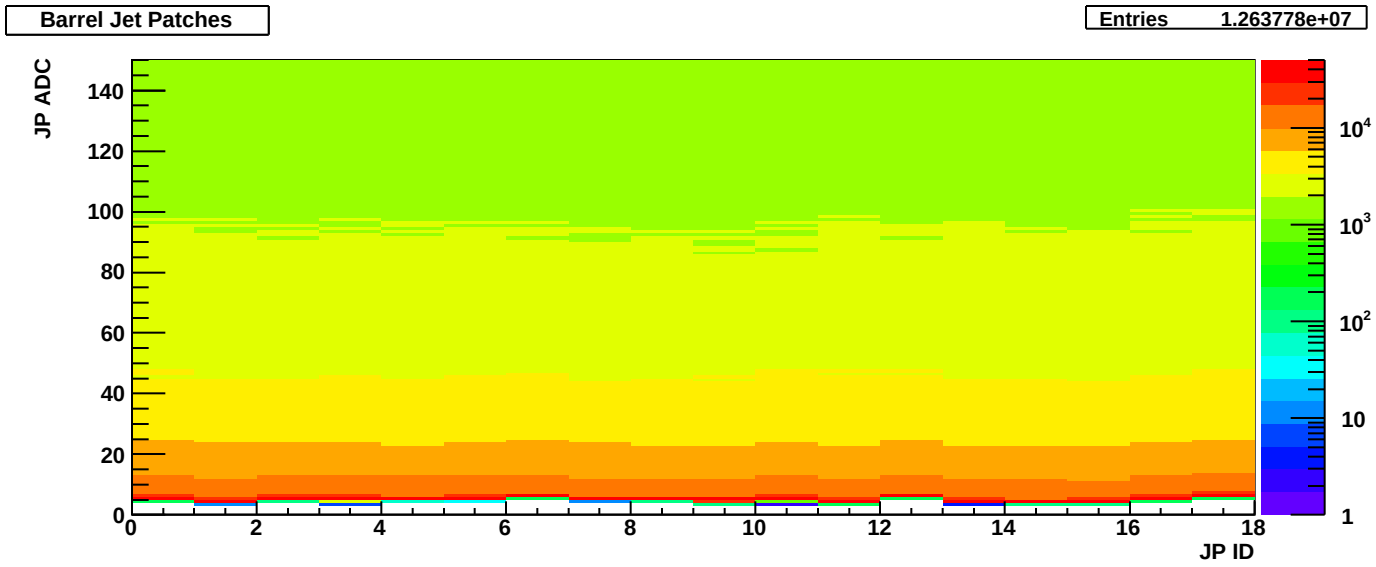

BunchId7Bit (JP2||AJP)
Entries 702099
10^4
10^3
10^2
0
20
40
60
80
100
120

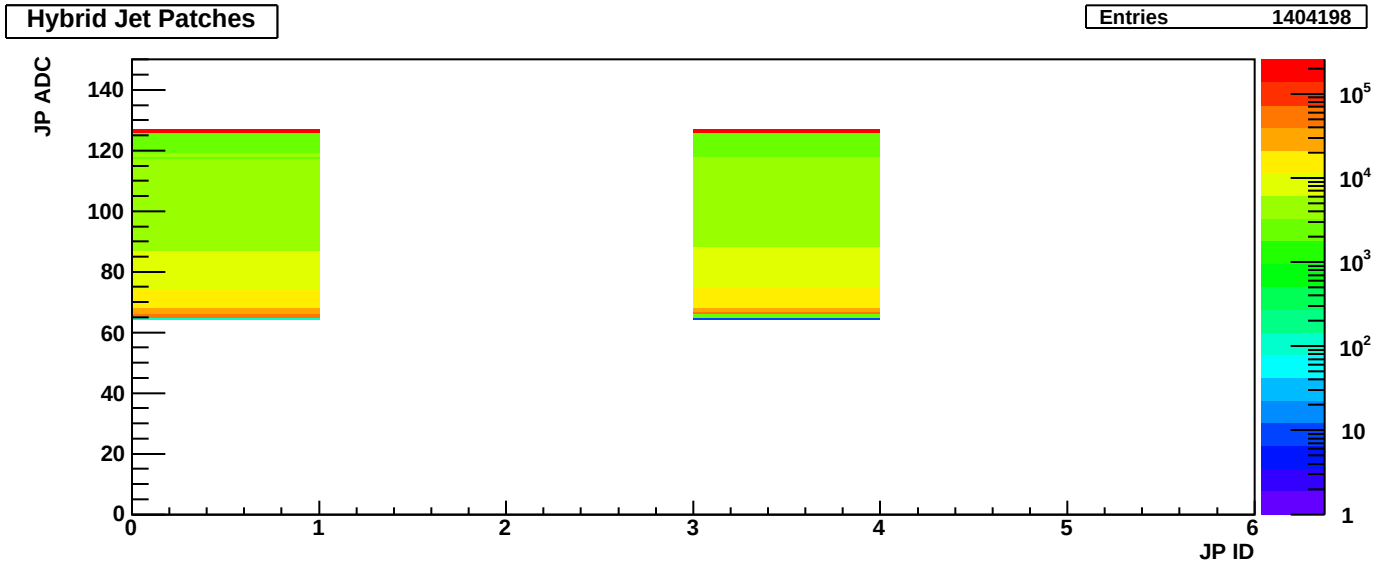

Barrel EMC L0 Input - High Tower
Entries 2.106297e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

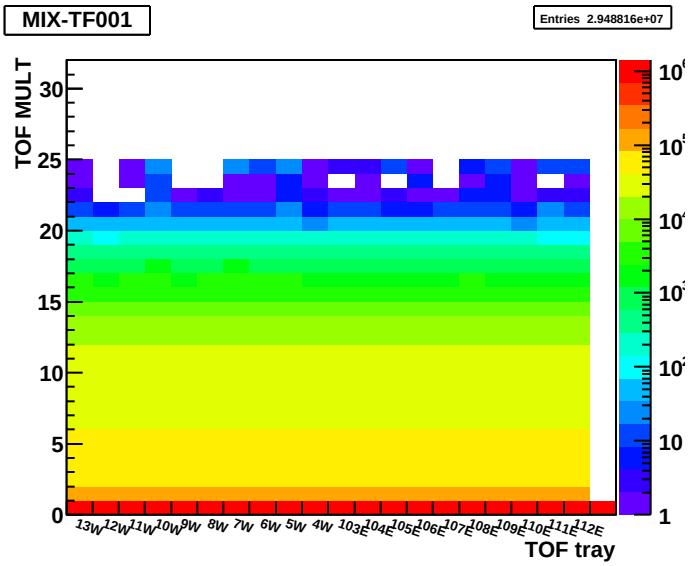

Barrel EMC L0 Input - Patch Sum
Entries 2.106297e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

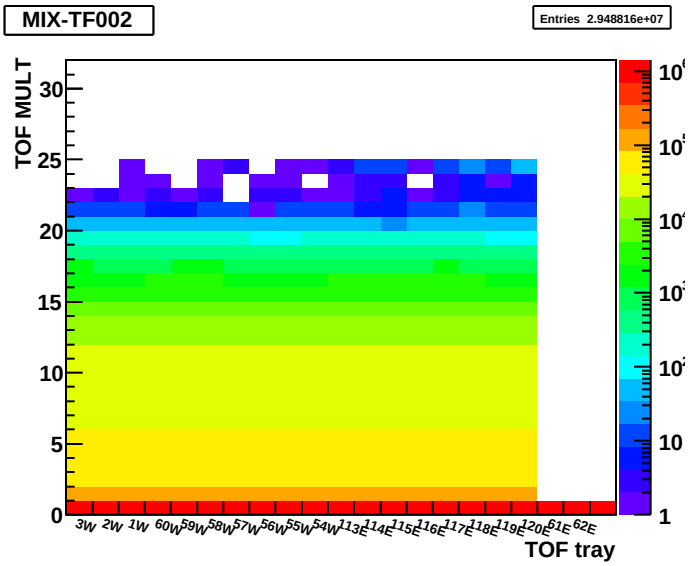

Endcap EMC L0 Input - High Tower
Entries 6.318891e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

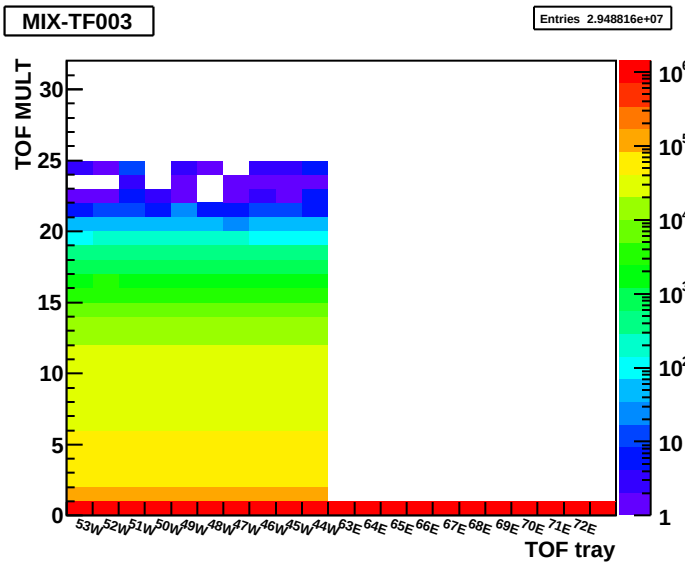

Endcap EMC L0 Input - Patch Sum
Entries 6.318891e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

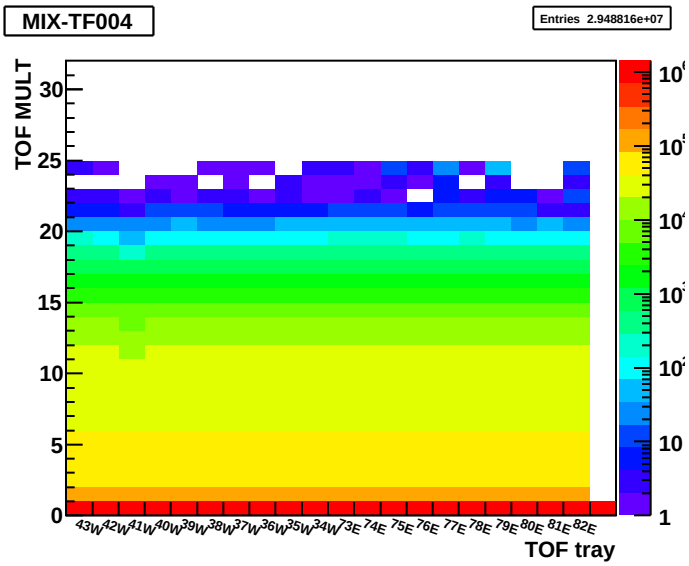

Barrel Jet Patches
Entries 1.263778e+07
JP ADC
JP ID

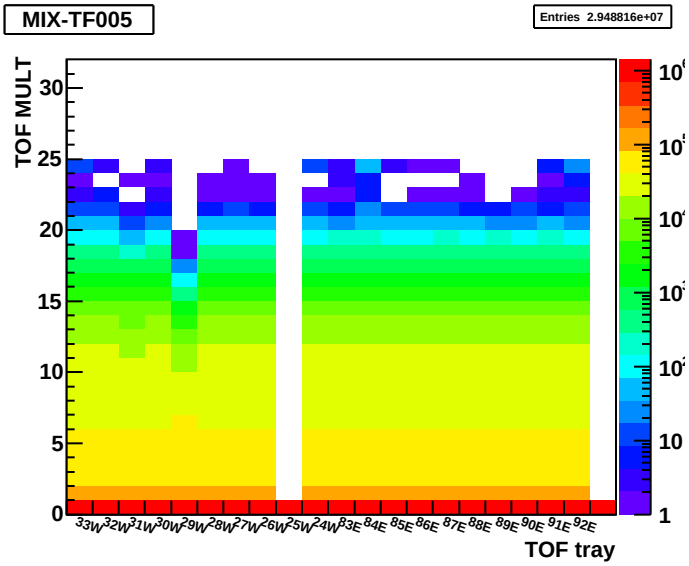

Hybrid Jet Patches
Entries 1404198
JP ADC
JP ID

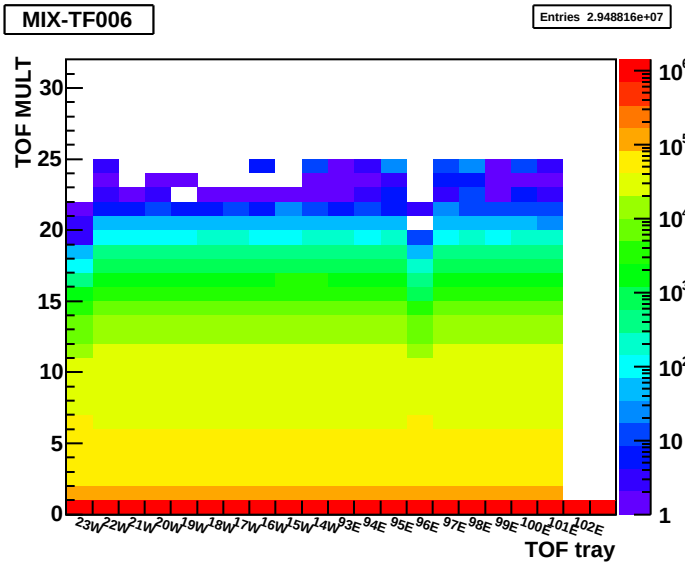

MIX-TF001
Entries 2.948816e+07
TOF MULT
TOF tray

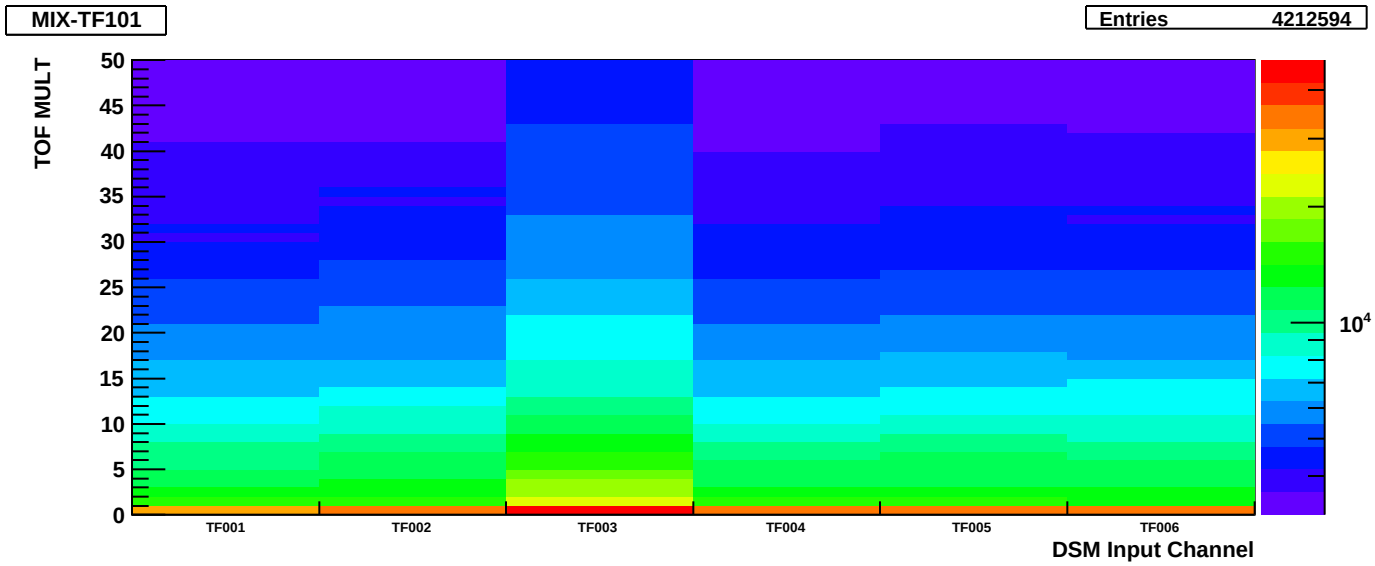

MIX-TF002
Entries 2.948816e+07
TOF MULT
TOF tray

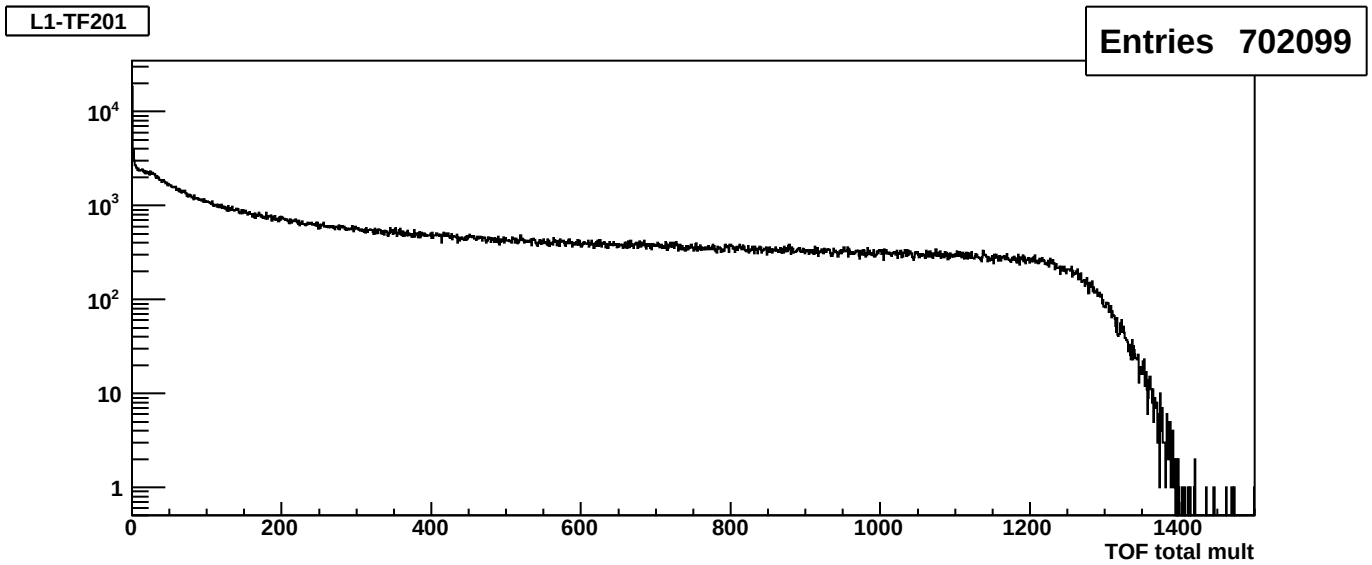

MIX-TF003
Entries 2.948816e+07
TOF MULT
TOF tray

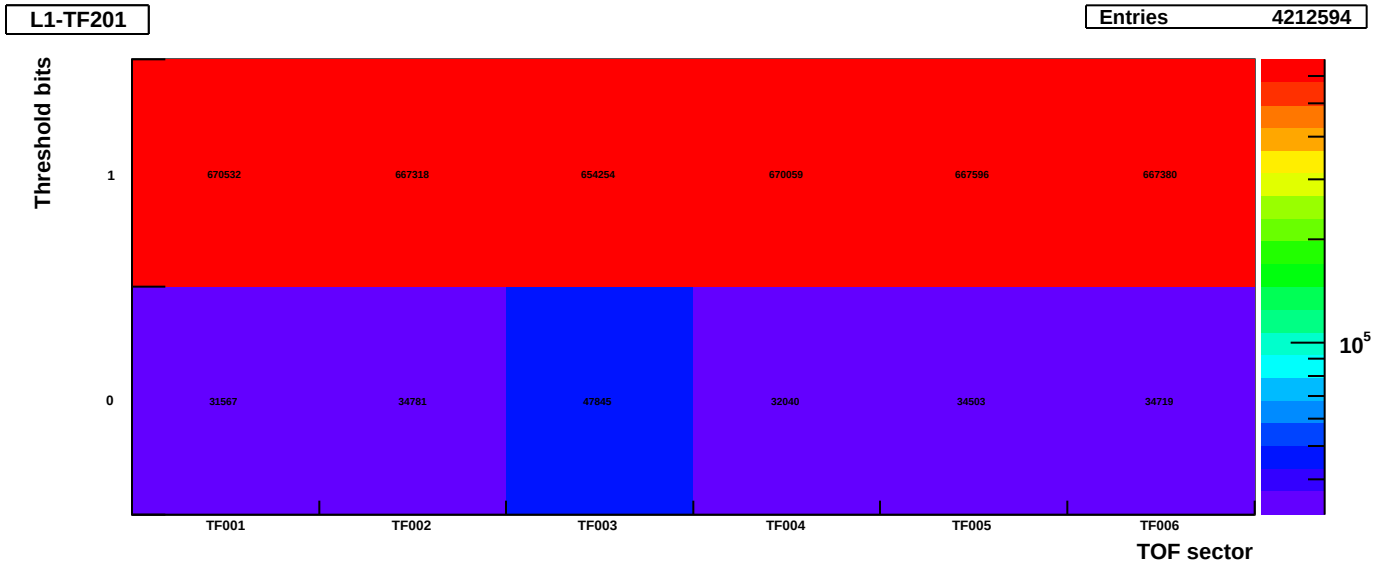

MIX-TF004
Entries 2.948816e+07
TOF MULT
TOF tray

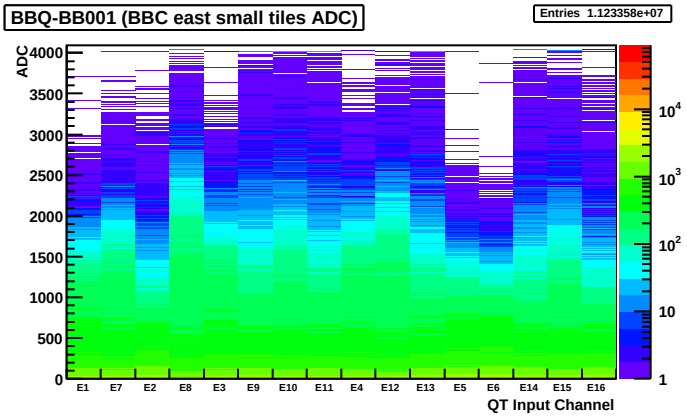

MIX-TF005
Entries 2.948816e+07
TOF MULT
TOF tray

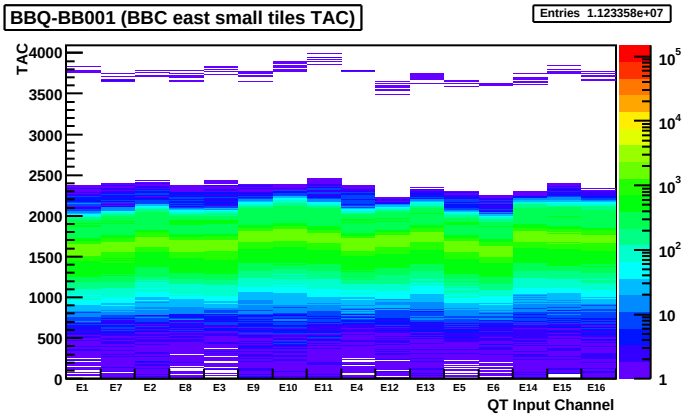

MIX-TF006
Entries 2.948816e+07
TOF MULT
TOF tray

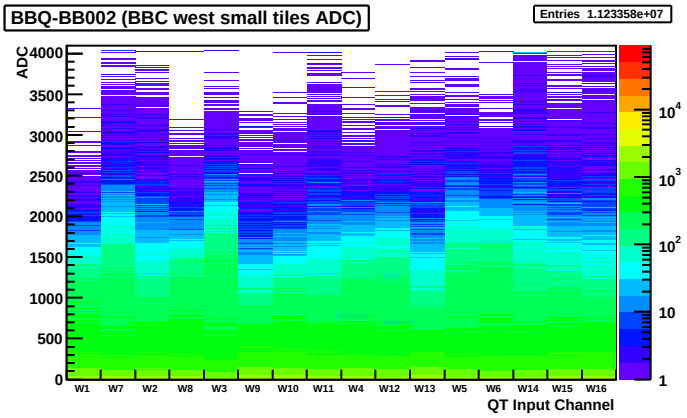

MIX-TF101
Entries 4212594
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

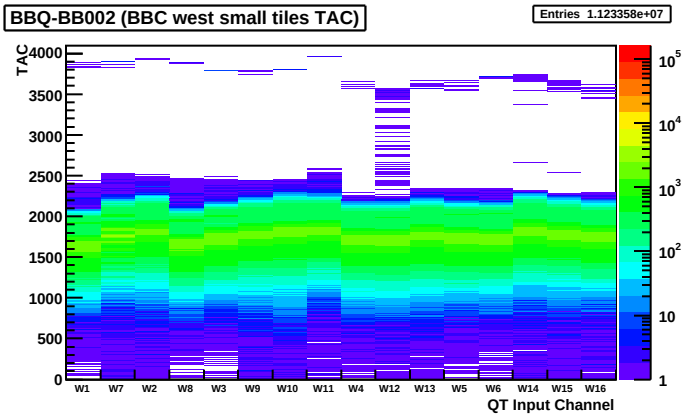

L1-TF201
Entries 702099
10^4
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
TOF total mult

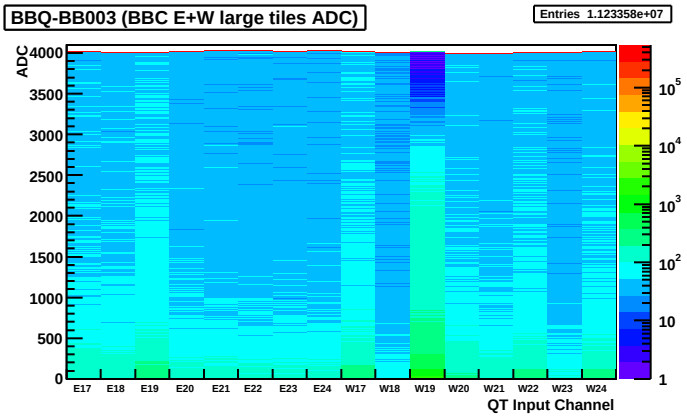

L1-TF201
Entries 4212594
Threshold bits
1
0
670532
667318
654254
670059
667596
667380
31567
34781
47845
32040
34503
34719
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

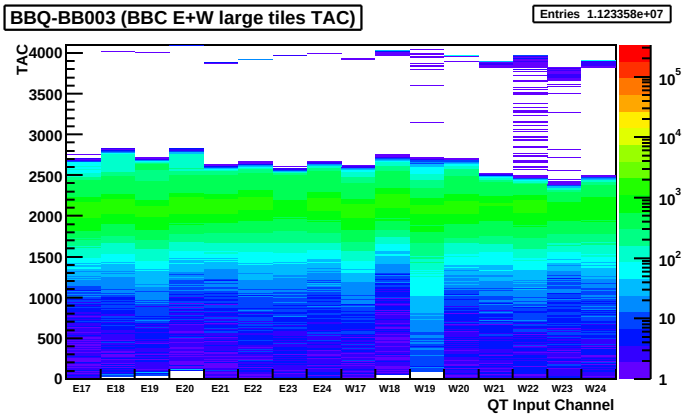

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.123358e+07
ADC
QT Input Channel

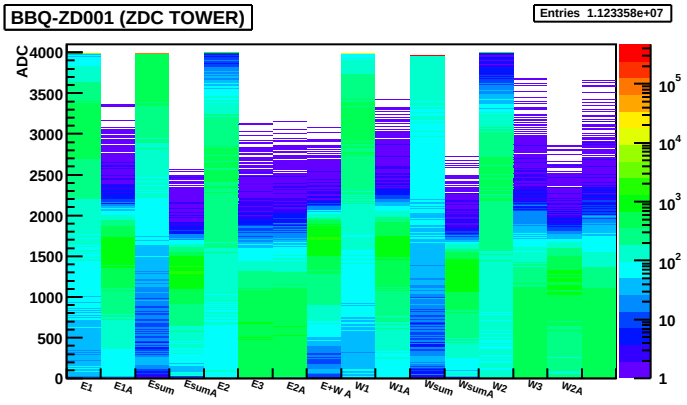

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.123358e+07
TAC
QT Input Channel

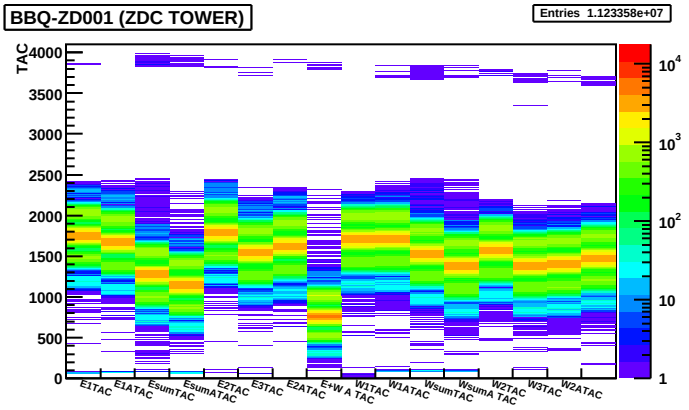

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.123358e+07
ADC
QT Input Channel

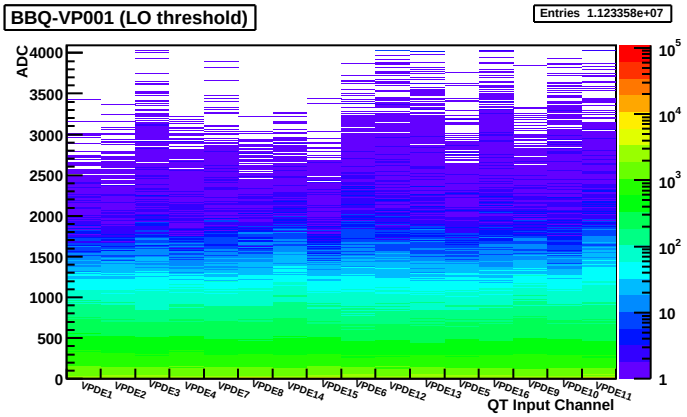

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.123358e+07
TAC
QT Input Channel

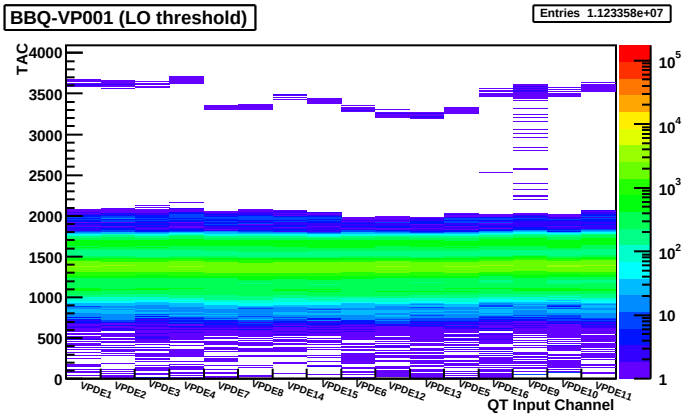

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.123358e+07
ADC
QT Input Channel

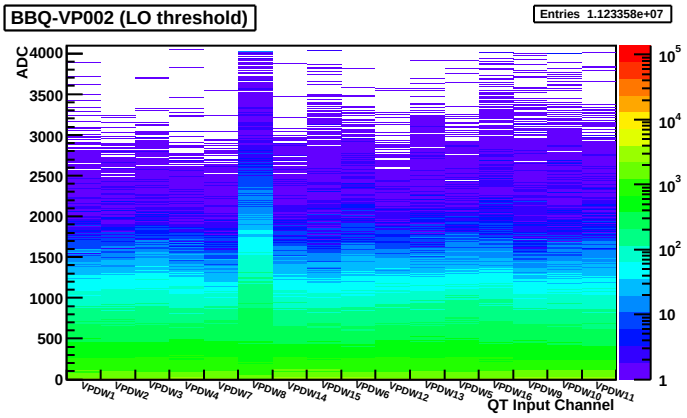

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.123358e+07
TAC
QT Input Channel

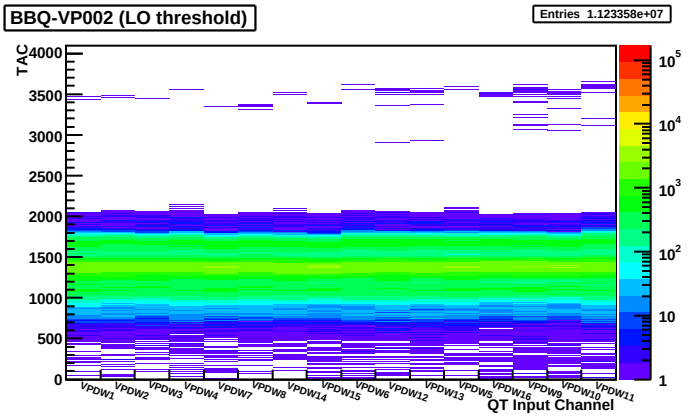

BBQ-ZD001 (ZDC TOWER)
Entries 1.123358e+07
ADC

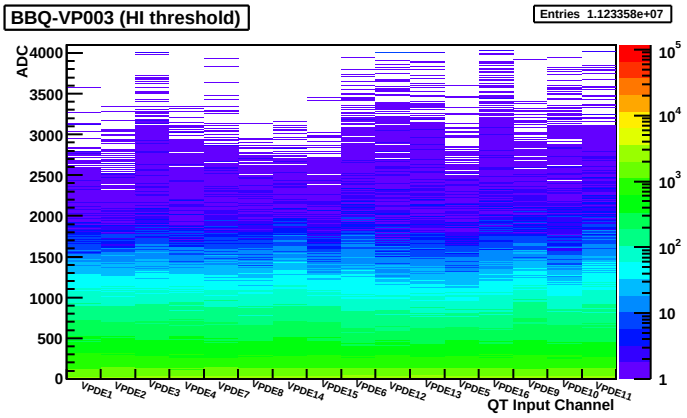

BBQ-ZD001 (ZDC TOWER)
Entries 1.123358e+07
TAC

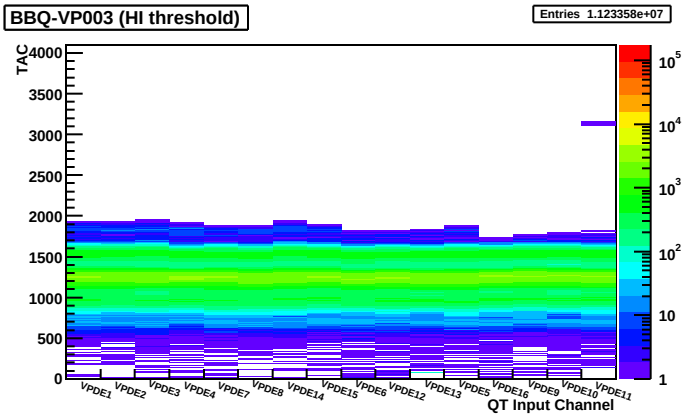

BBQ-VP001 (LO threshold)
Entries 1.123358e+07
ADC
QT Input Channel

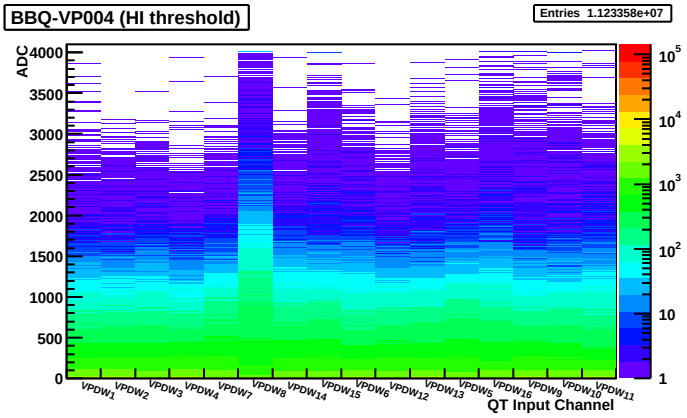

BBQ-VP001 (LO threshold)
Entries 1.123358e+07
TAC
QT Input Channel

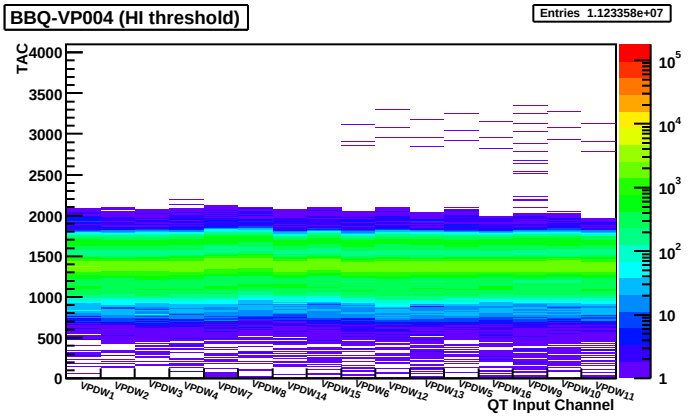

BBQ-VP002 (LO threshold)
Entries 1.123358e+07
ADC
QT Input Channel

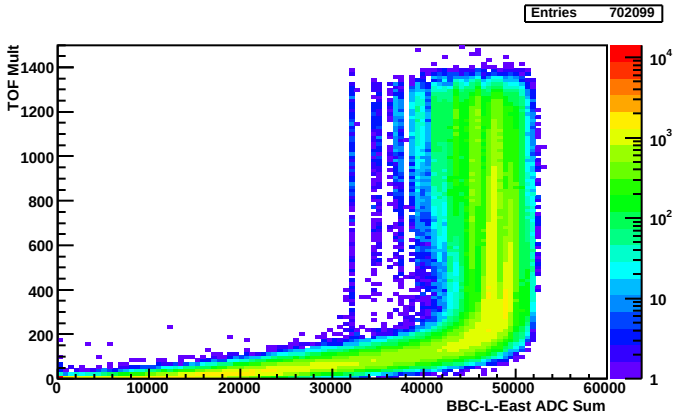

BBQ-VP002 (LO threshold)
Entries 1.123358e+07
TAC
QT Input Channel

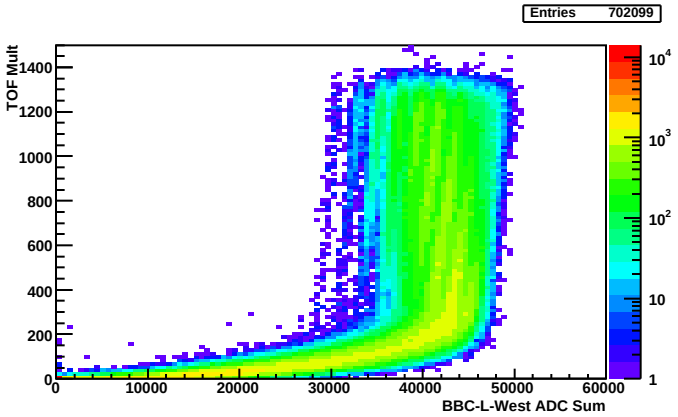

BBQ-VP003 (HI threshold)
Entries 1.123358e+07
ADC
QT Input Channel

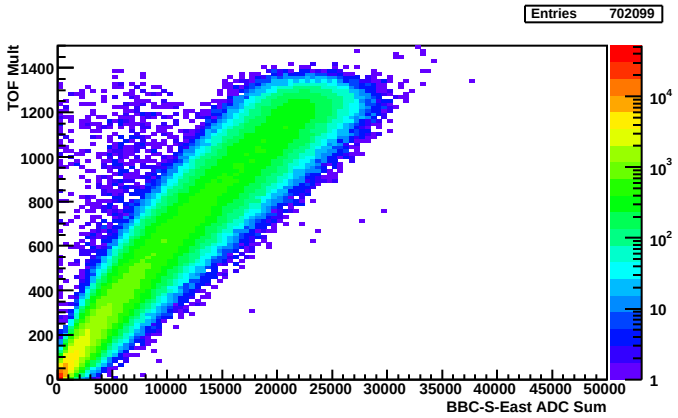

BBQ-VP003 (HI threshold)
Entries 1.123358e+07
TAC
QT Input Channel

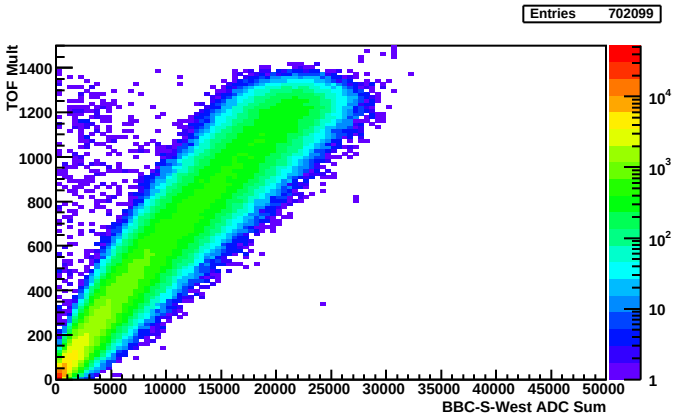

BBQ-VP004 (HI threshold)
Entries 1.123358e+07
ADC
QT Input Channel

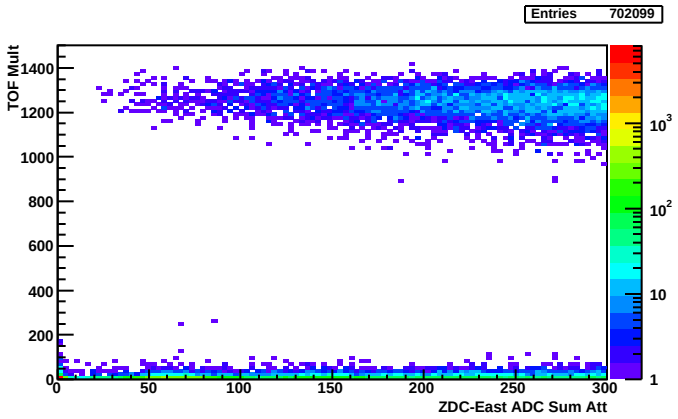

BBQ-VP004 (HI threshold)
Entries 1.123358e+07
TAC
QT Input Channel

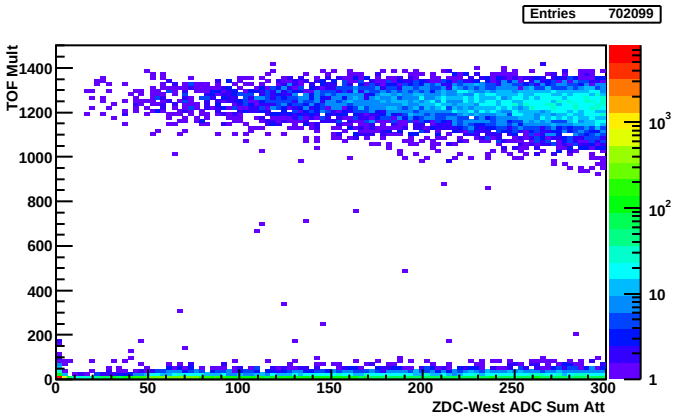

Entries 702099
TOF Mult
BBC-L-East ADC Sum

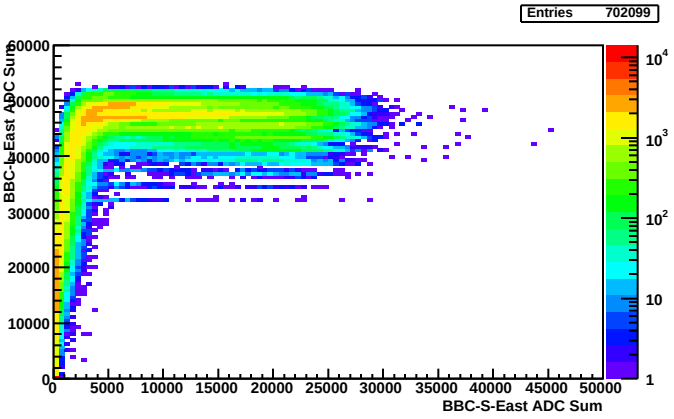

Entries 702099
TOF Mult
BBC-L-West ADC Sum

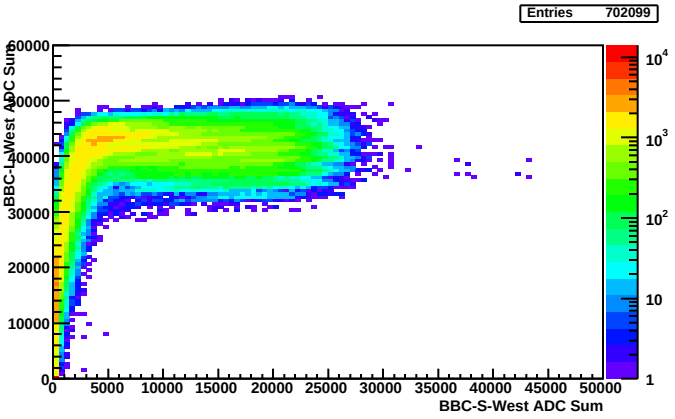

Entries 702099
TOF Mult
BBC-S-East ADC Sum

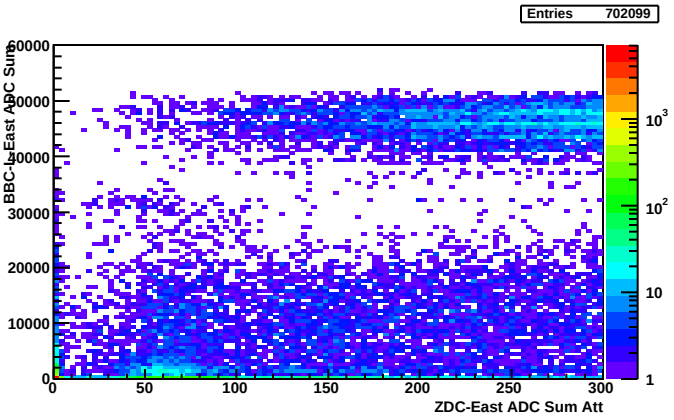

Entries 702099
TOF Mult
BBC-S-West ADC Sum

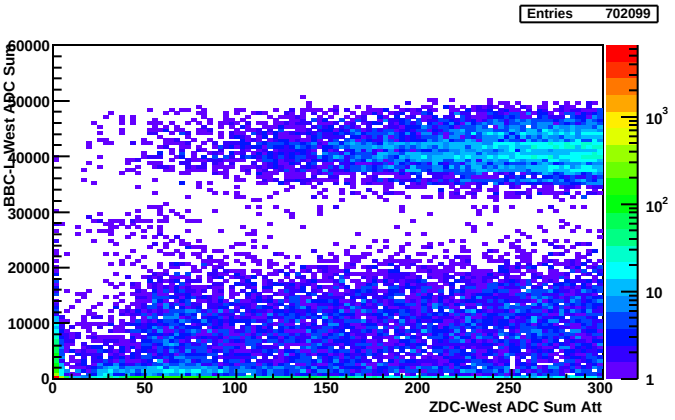

Entries 702099
TOF Mult
ZDC-East ADC Sum Att

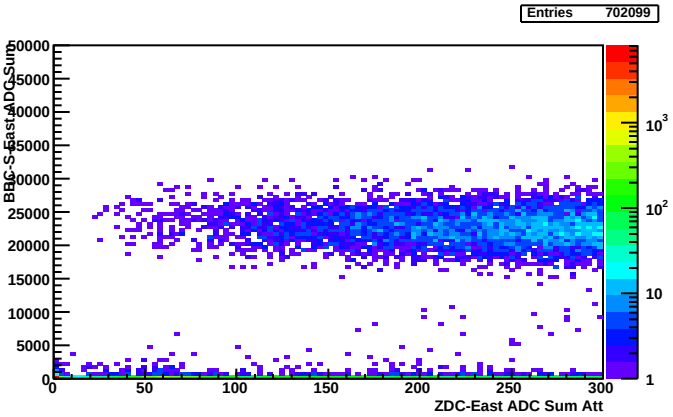

Entries 702099
TOF Mult
ZDC-West ADC Sum Att


Entries 702099
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 702099
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 702099
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 702099
BBC-L-West ADC Sum
ZDC-West ADC Sum Att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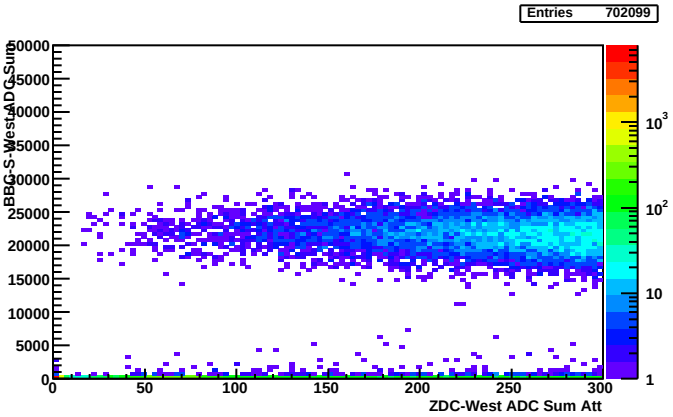
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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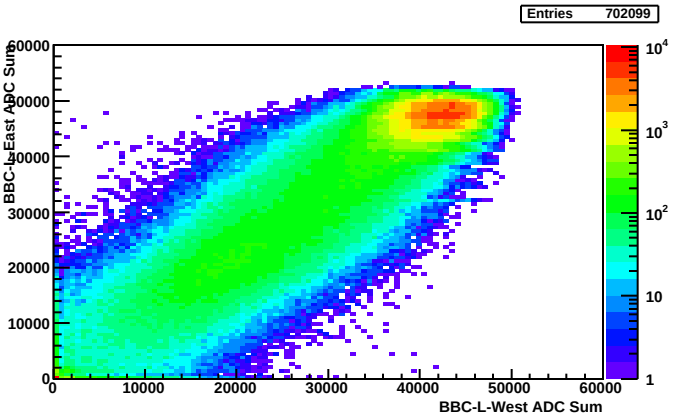
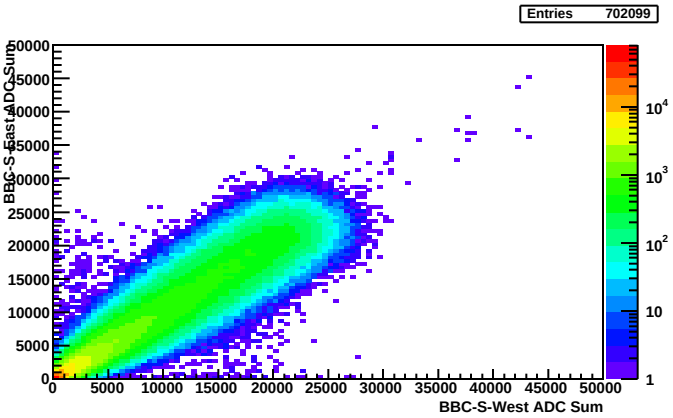
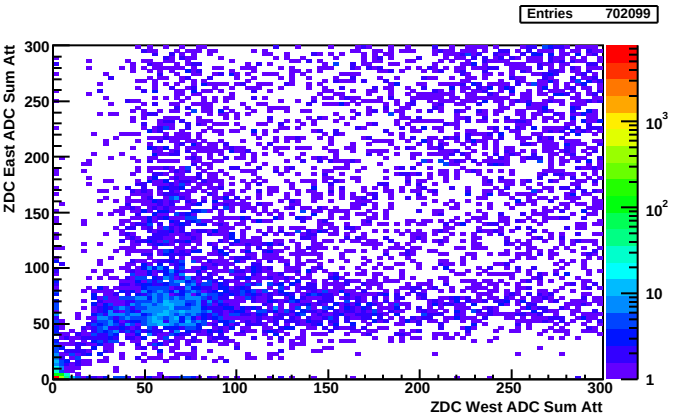
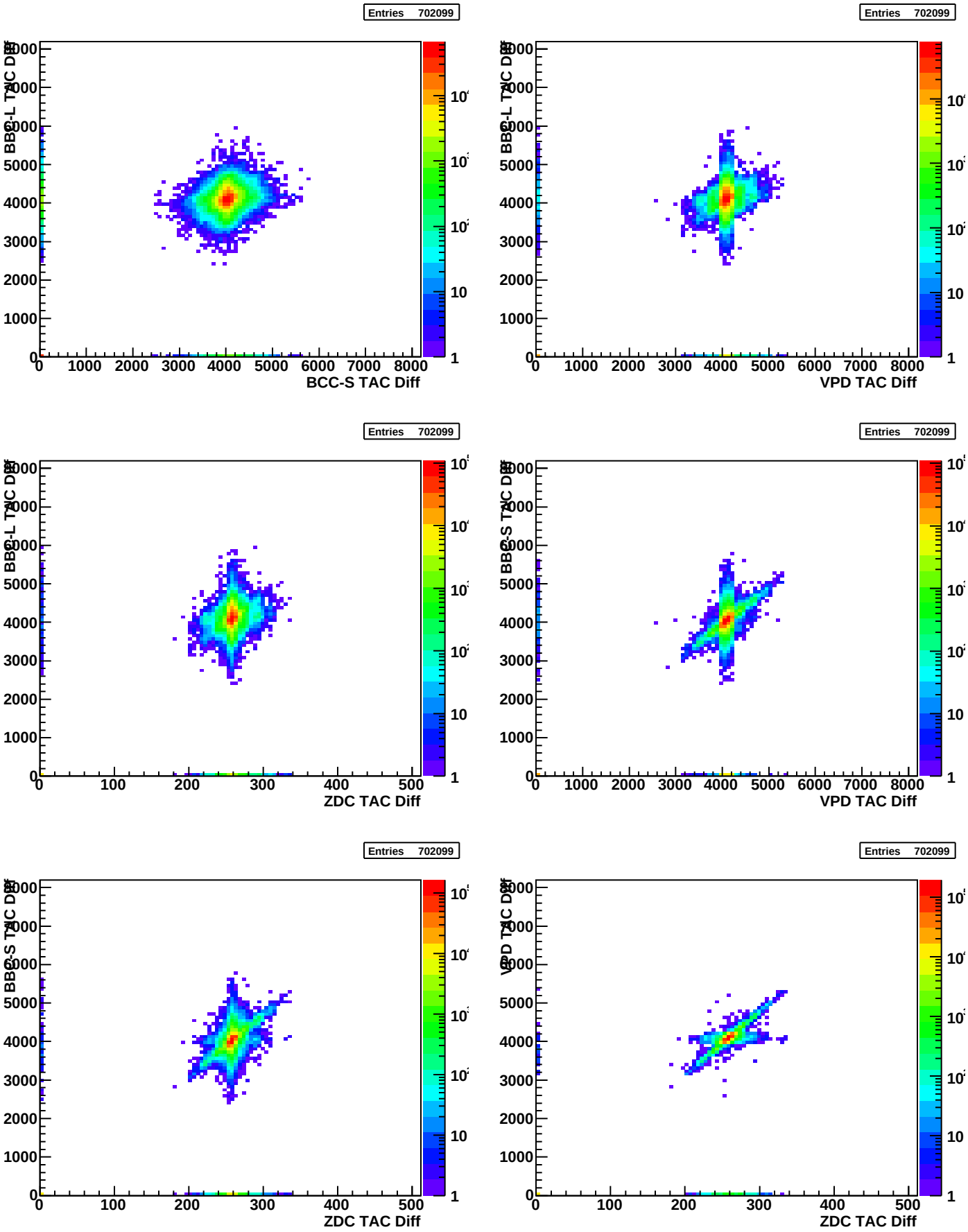
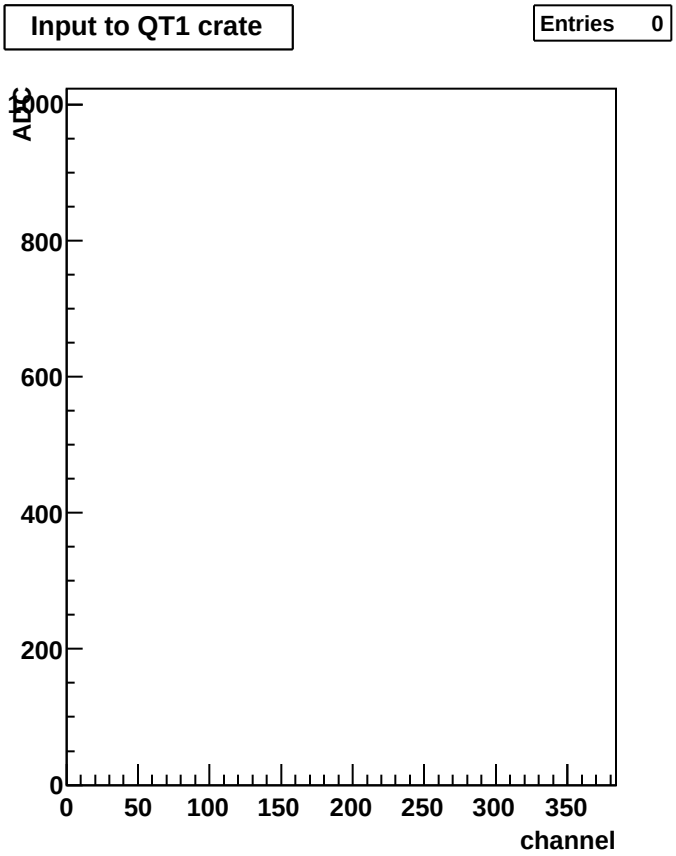
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

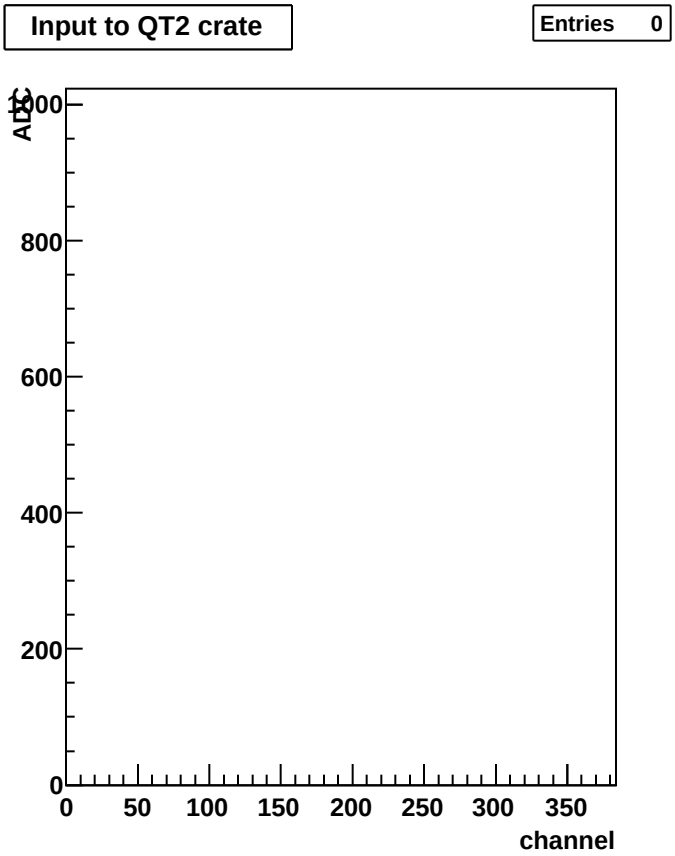

Entries 702099
BBC-L-East ADC Sum
BBC-L-West ADC Sum

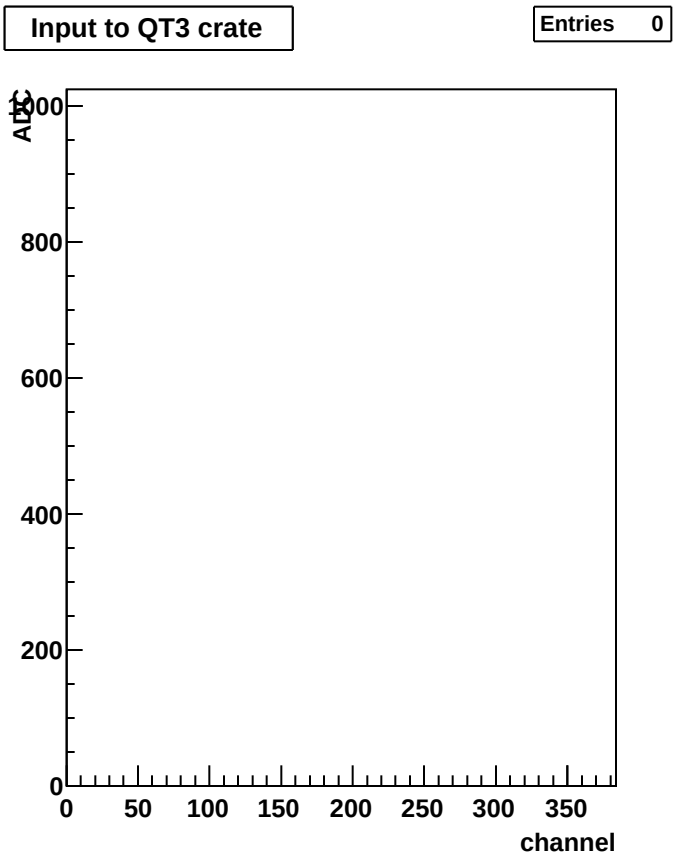

Entries 702099
BBC-S-East ADC Sum
BBC-S-West ADC Sum

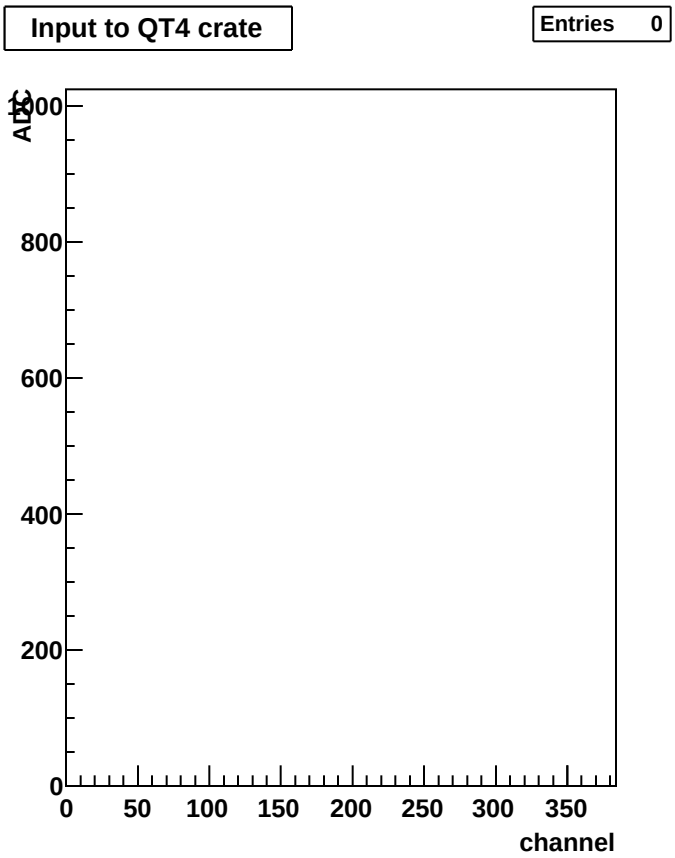

Entries 702099
ZDC East ADC Sum Att
ZDC West ADC Sum Att

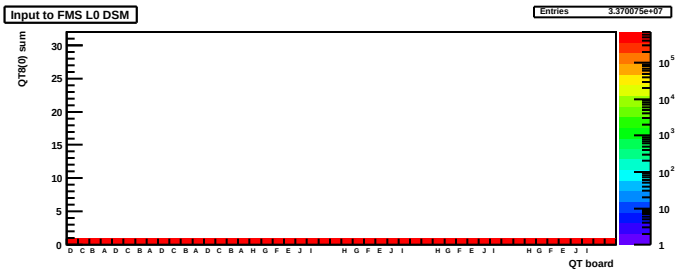

Entries 702099
BBC-L TAC Diff
BCC-S TAC Diff
Entries 702099
BBC-L TAC Diff
VPD TAC Diff
Entries 702099
BBC-L TAC Diff
ZDC TAC Diff
Entries 702099
BBC-S TAC Diff
VPD TAC Diff
Entries 702099
BBC-S TAC Diff
ZDC TAC Diff
Entries 702099
VPD TAC Diff
ZDC TAC Diff

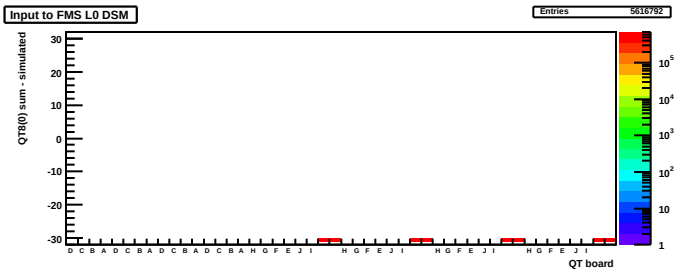

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

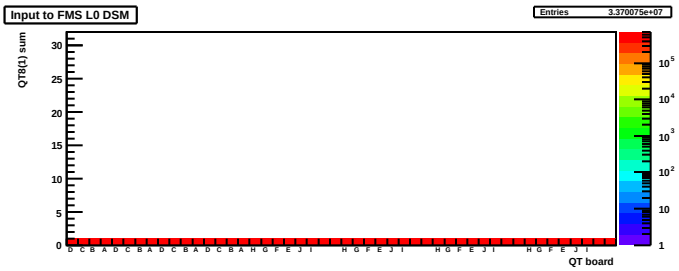

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

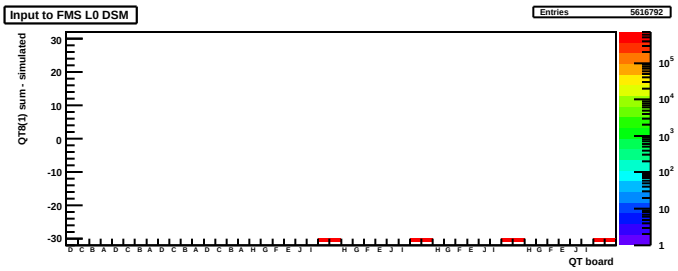

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

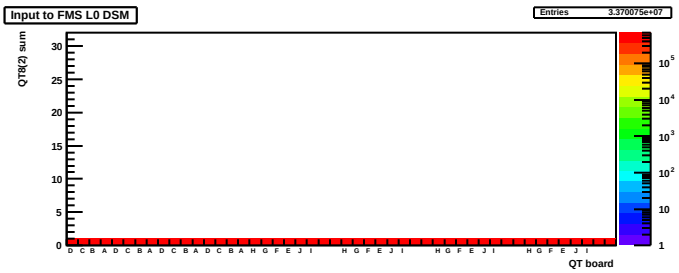

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

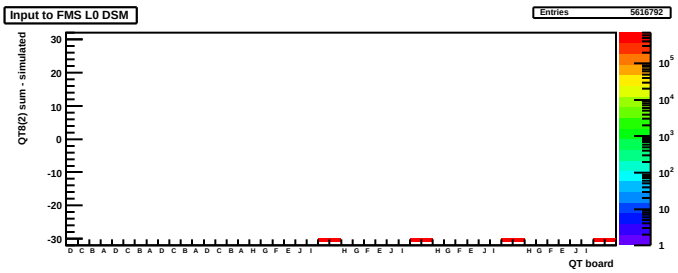

Input to FMS L0 DSM
Entries 3.370075e+07
QT8(0) sum
QT board

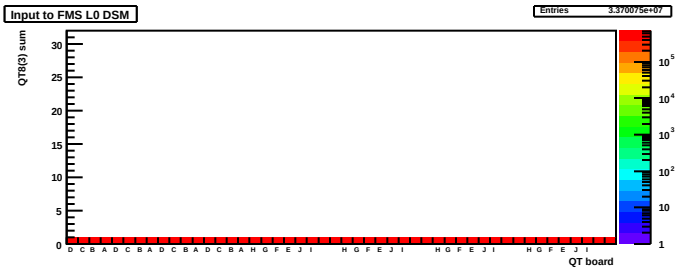

Input to FMS L0 DSM
Entries 5616792
QT8(0) sum - simulated
QT board

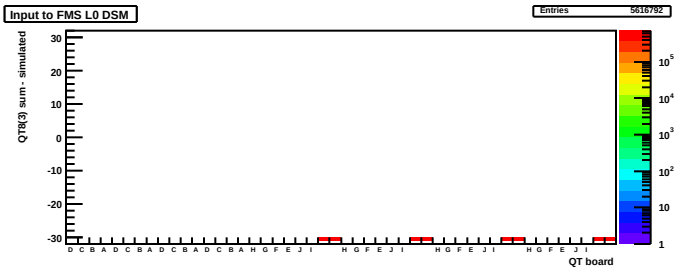

Input to FMS L0 DSM
Entries 3.370075e+07
QT8(1) sum
QT board

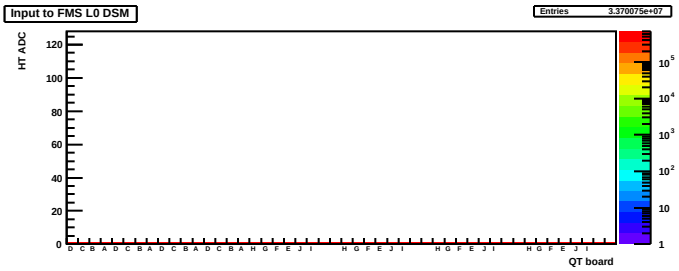

Input to FMS L0 DSM
Entries 5616792
QT8(1) sum - simulated
QT board

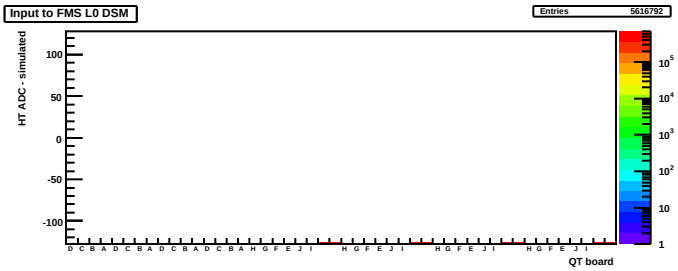

Input to FMS L0 DSM
Entries 3.370075e+07
QT8(2) sum
QT board

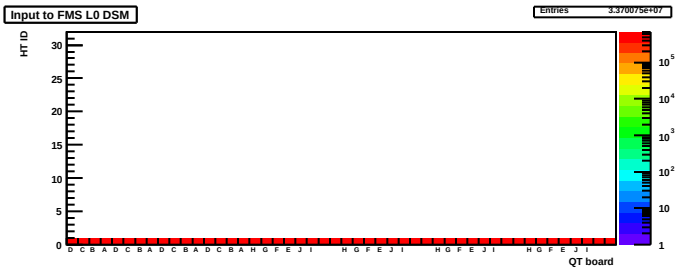

Input to FMS L0 DSM
Entries 5616792
QT8(2) sum - simulated
QT board

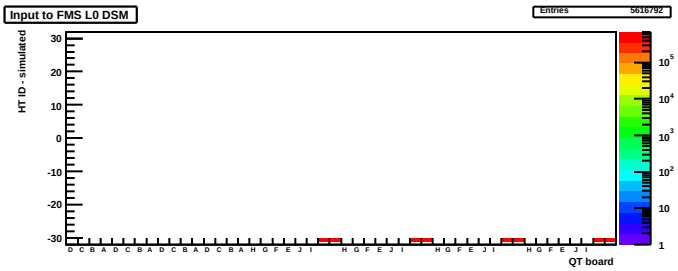

Input to FMS L0 DSM
Entries 3.370075e+07
QT8(3) sum
QT board

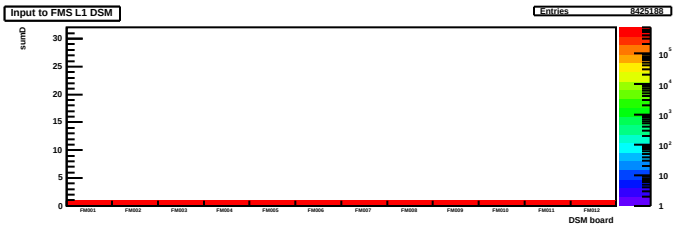

Input to FMS L0 DSM
Entries 5616792
QT8(3) sum - simulated
QT board

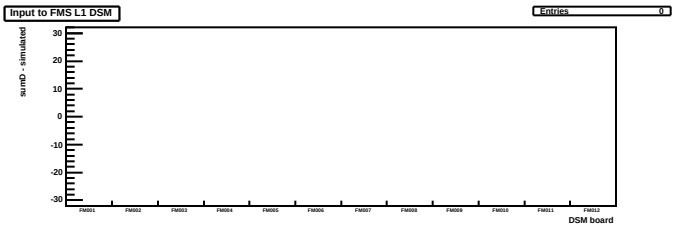

Input to FMS L0 DSM
Entries 3.370075e+07
HT ADC
QT board

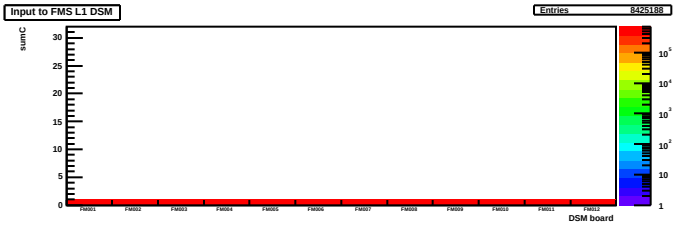

Input to FMS L0 DSM
Entries 5616792
HT ADC - simulated
QT board

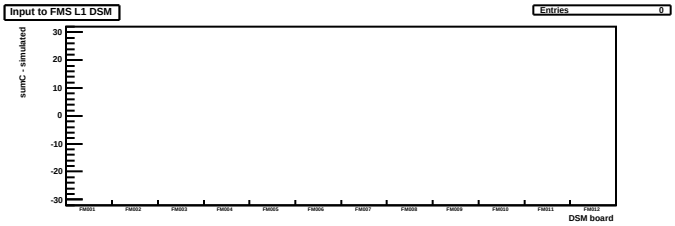

Input to FMS L0 DSM
Entries 3.370075e+07
HT ID
QT board

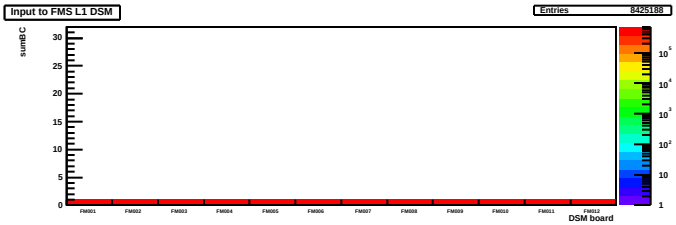

Input to FMS L0 DSM
Entries 5616792
HT ID - simulated
QT board

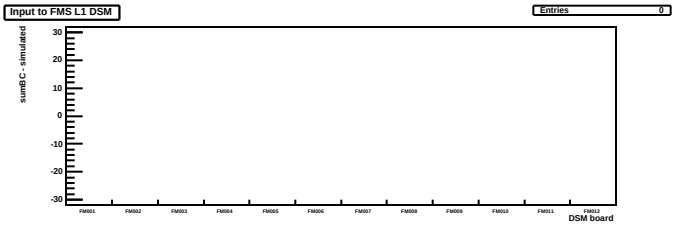

Input to FMS L1 DSM
Entries 8425188
sumD
DSM board

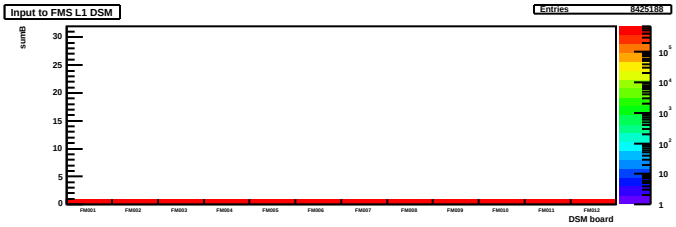

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

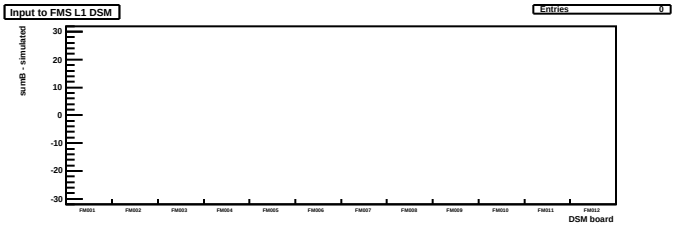

Input to FMS L1 DSM
Entries 8425188
sumC
DSM board

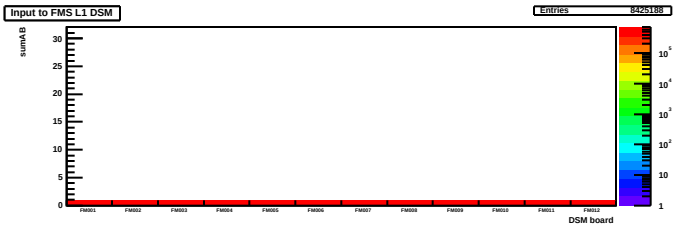

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

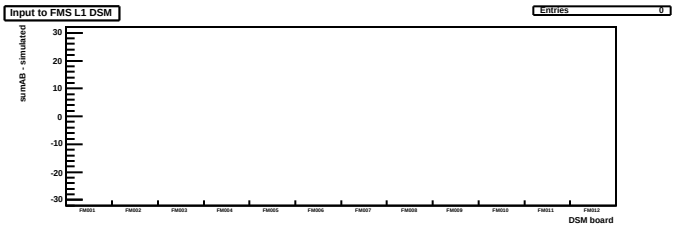

Input to FMS L1 DSM
Entries 8425188
sumBC
DSM board

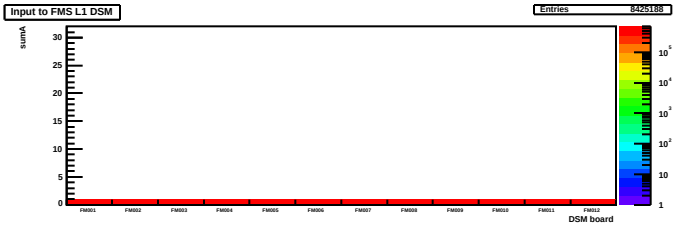

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

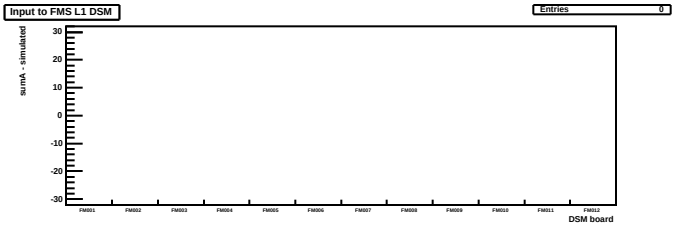

Input to FMS L1 DSM
Entries 8425188
sumB
DSM board

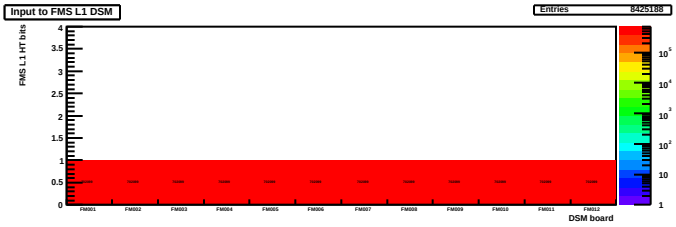

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

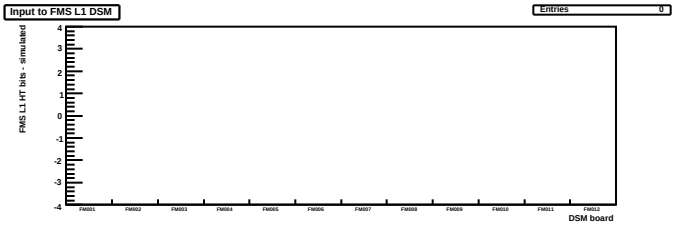

Input to FMS L1 DSM
Entries 8425188
sumAB
DSM board

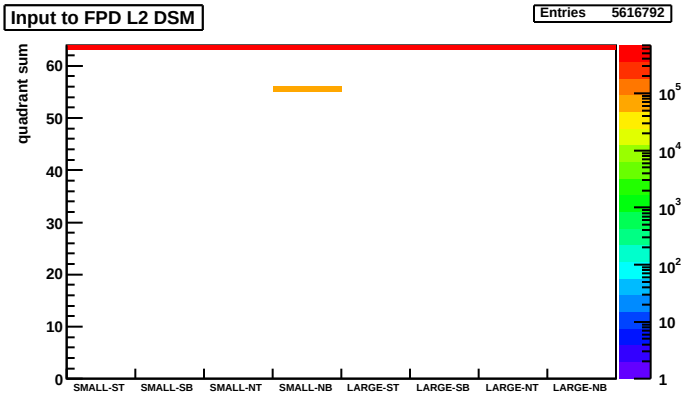

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

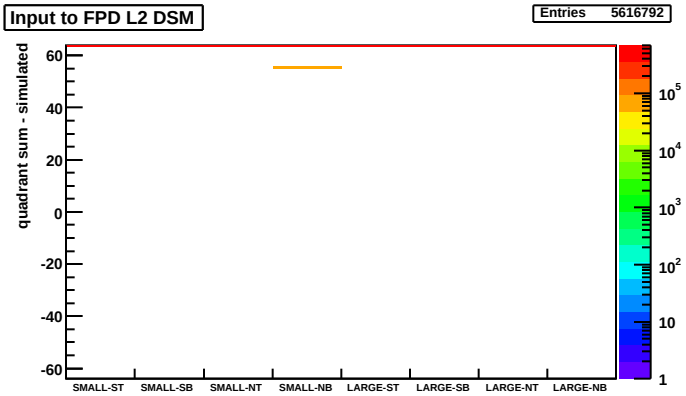

Input to FMS L1 DSM
Entries 8425188
sumA
DSM board

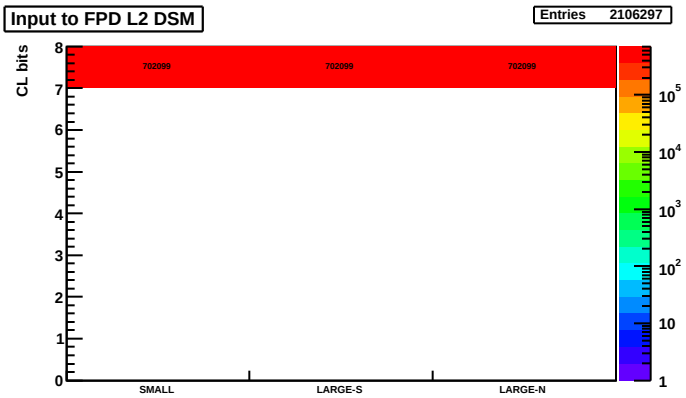

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

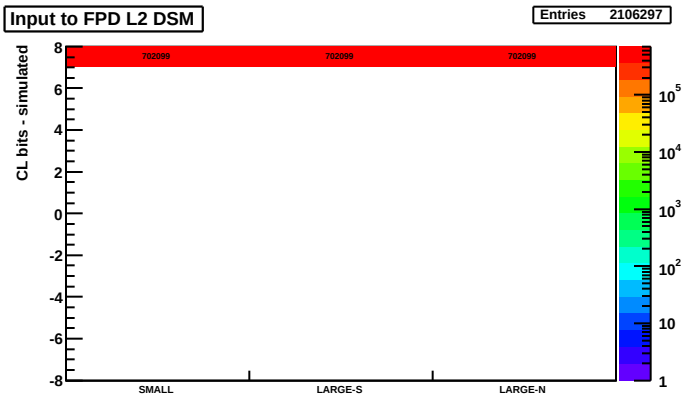

Input to FMS L1 DSM
Entries 8425188
FMS L1 HT bits
DSM board

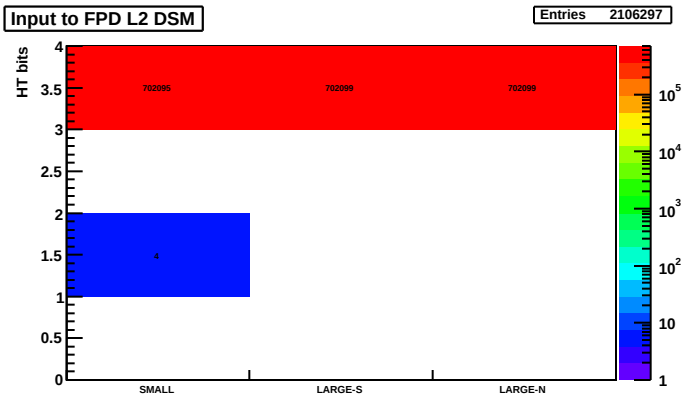

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

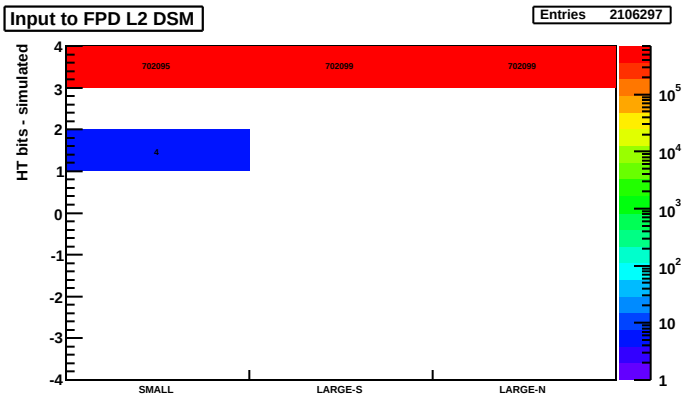

Input to FPD L2 DSM
Entries 5616792
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

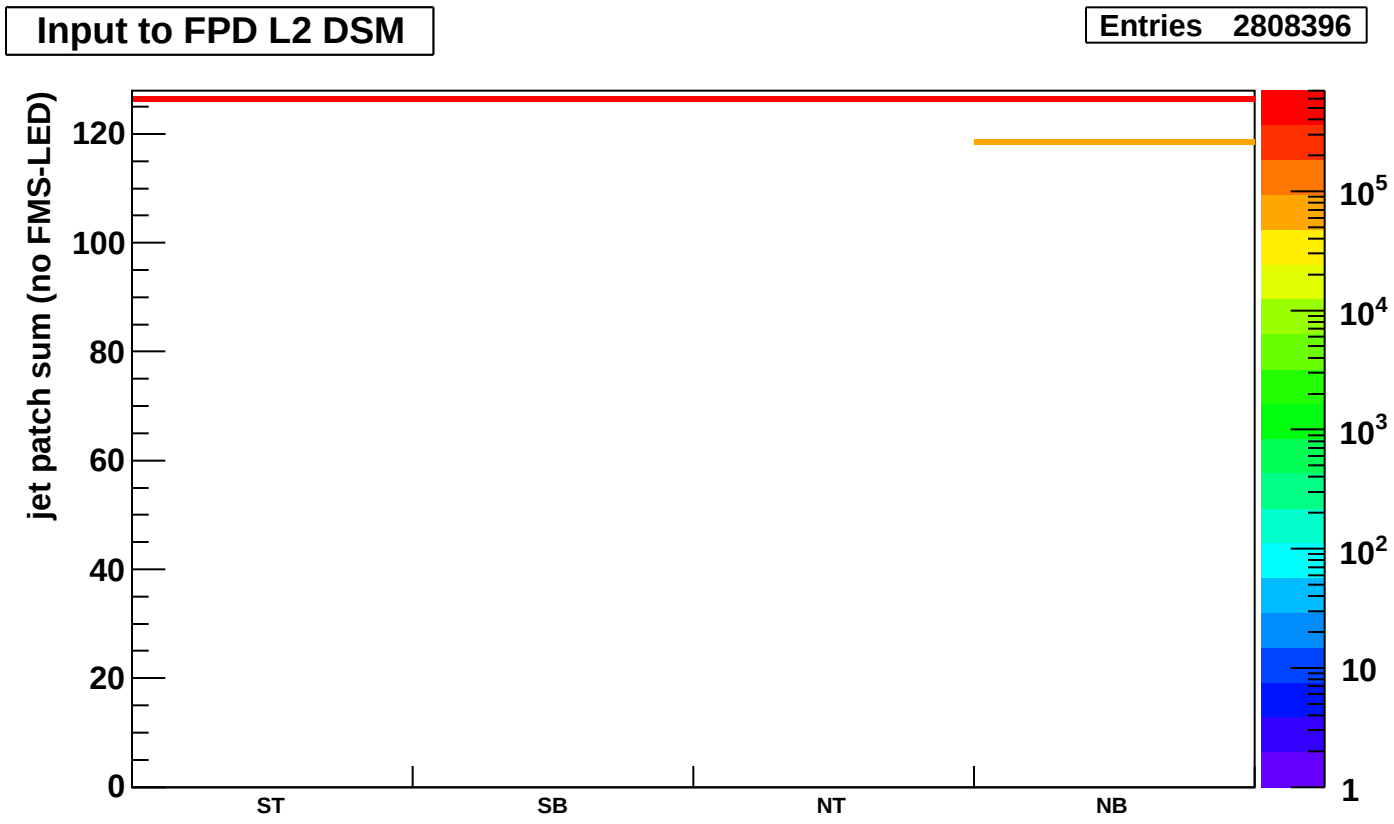

Input to FPD L2 DSM
Entries 5616792
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

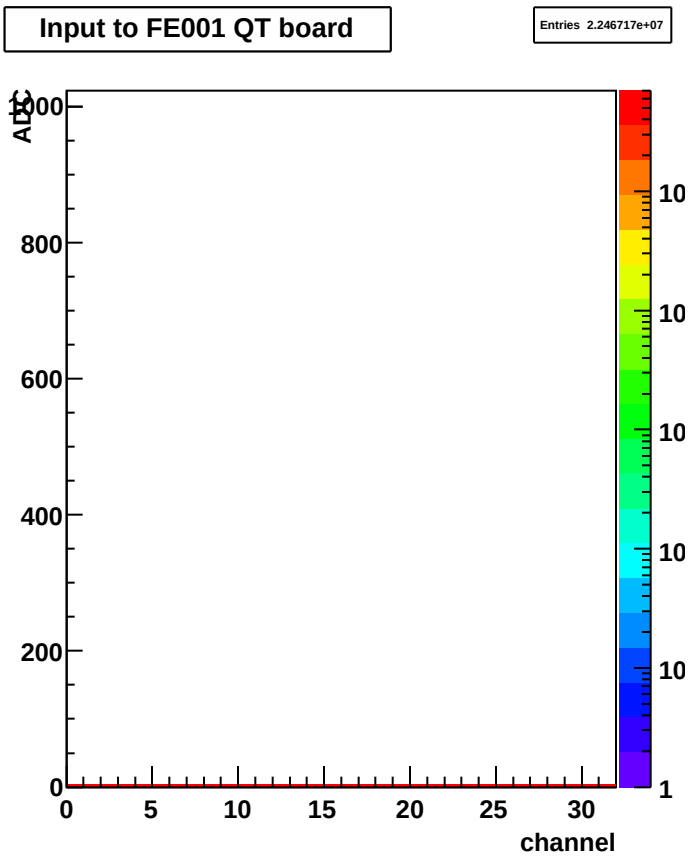

Input to FPD L2 DSM
Entries 2106297
CL bits
702099
702099
702099
SMALL
LARGE-S
LARGE-N

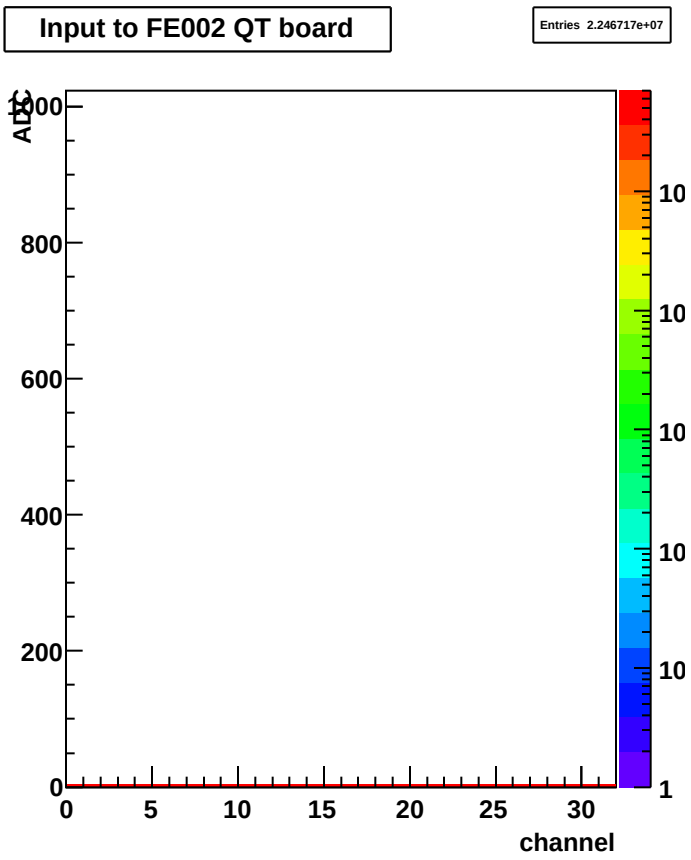

Input to FPD L2 DSM
Entries 2106297
CL bits - simulated
702099
702099
702099
SMALL
LARGE-S
LARGE-N

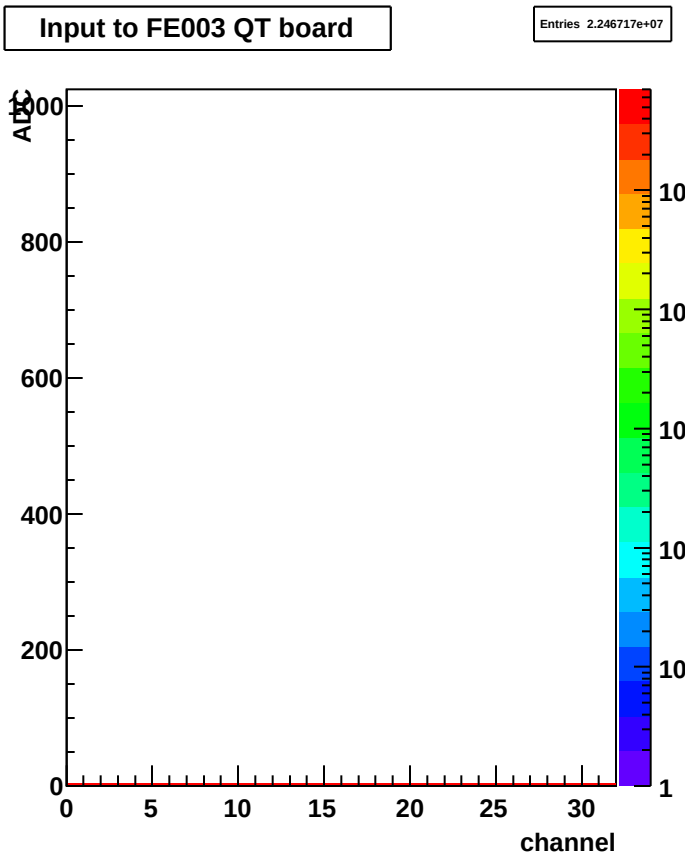

Input to FPD L2 DSM
Entries 2106297
HT bits
702095
702099
702099
4
SMALL
LARGE-S
LARGE-N

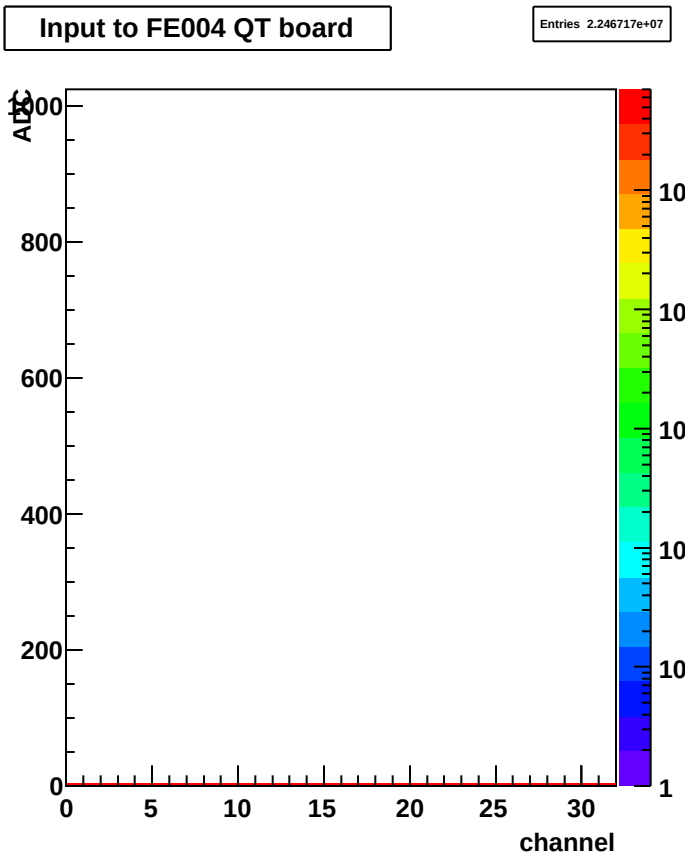

Input to FPD L2 DSM
Entries 2106297
HT bits - simulated
702095
702099
702099
4
SMALL
LARGE-S
LARGE-N

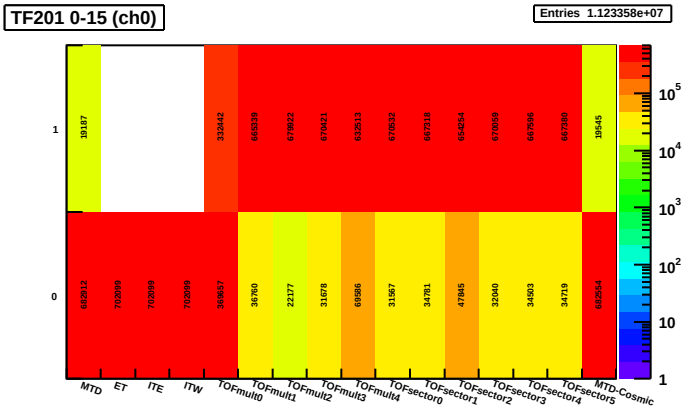

Input to FPD L2 DSM
Entries 2808396
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

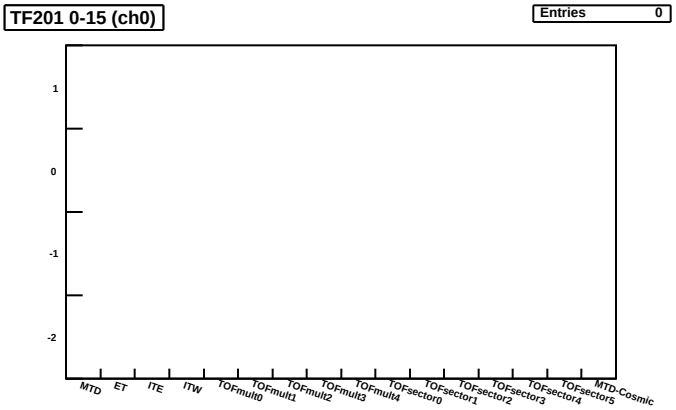

Input to FE001 QT board
Entries 2.246717e+07
ADC
channel

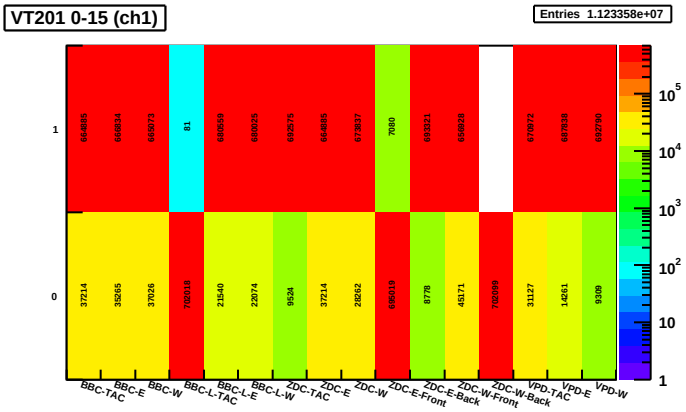

Input to FE002 QT board
Entries 2.246717e+07
ADC
channel

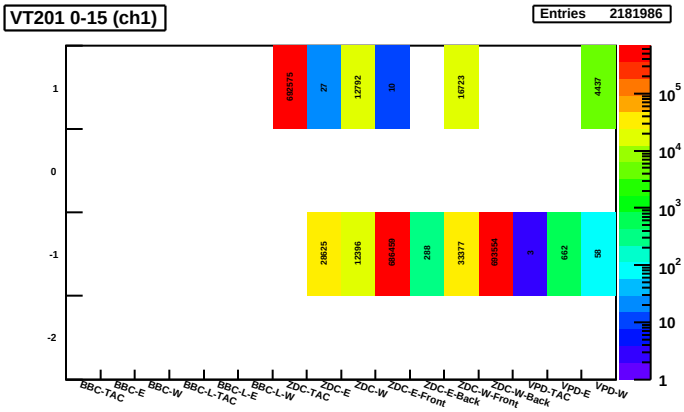

Input to FE003 QT board
Entries 2.246717e+07
ADC
channel

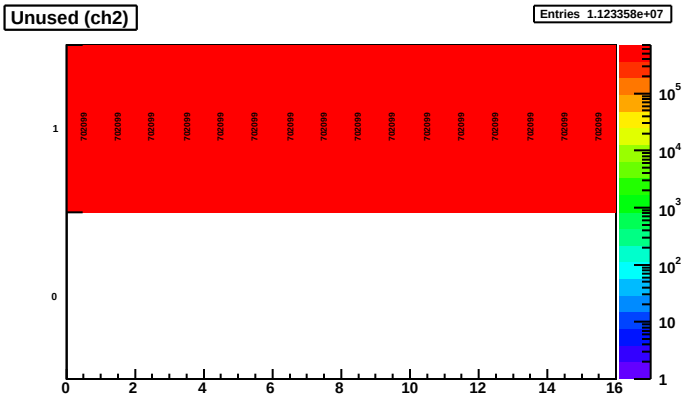

Input to FE004 QT board
Entries 2.246717e+07
ADC
channel

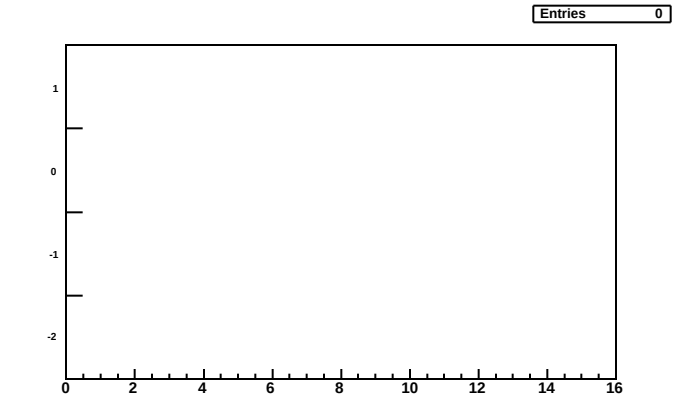

TF201 0-15 (ch0)
Entries 1.123358e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

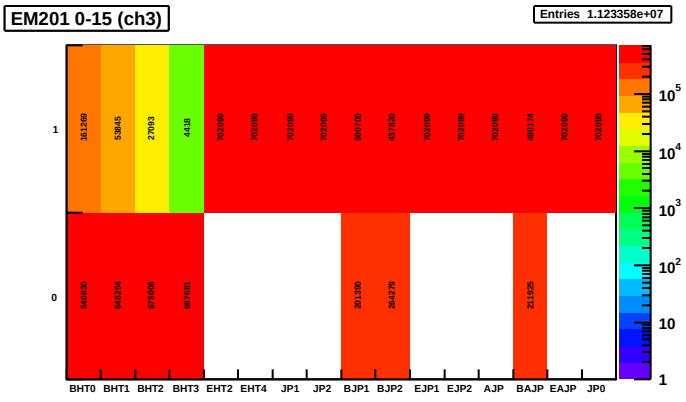

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

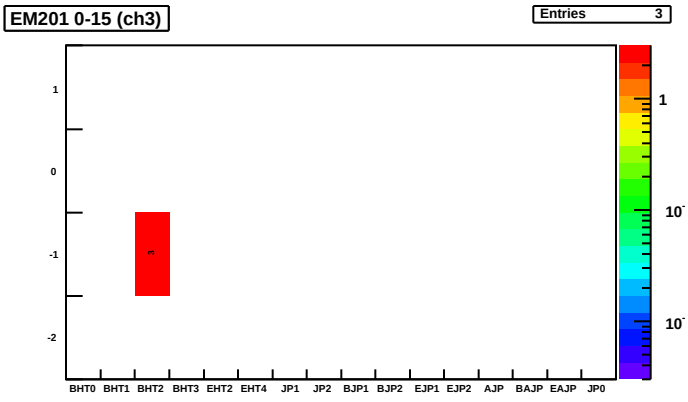

VT201 0-15 (ch1)
Entries 1.123358e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 2181986
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

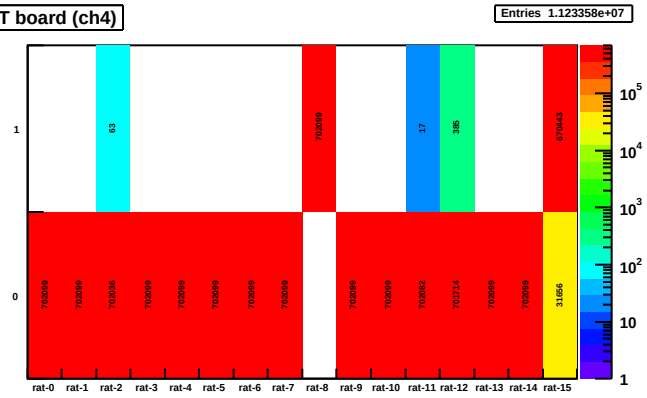

Unused (ch2)
Entries 1.123358e+07

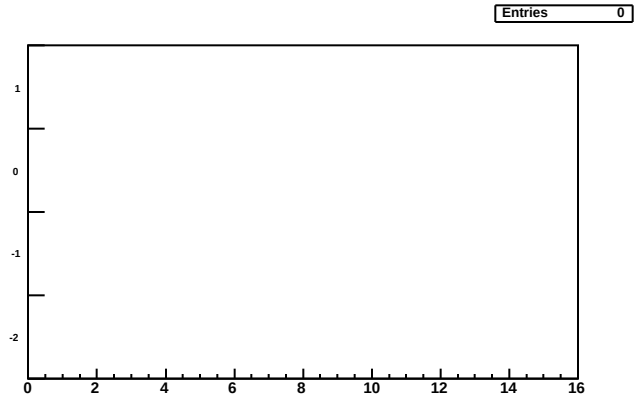

Entries 0


EM201 0-15 (ch3)
Entries 1.123358e+07
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

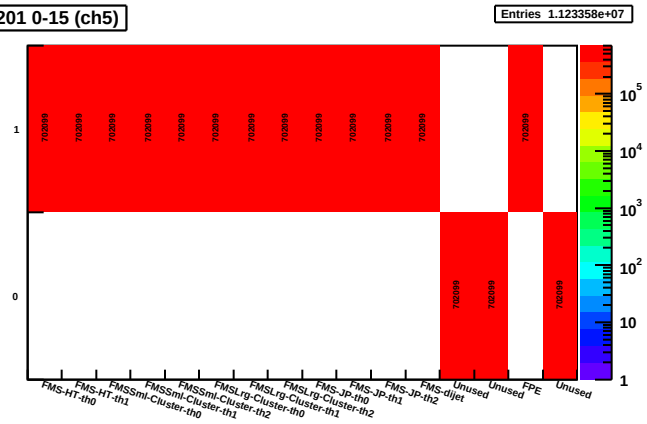

EM201 0-15 (ch3)
Entries 3
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

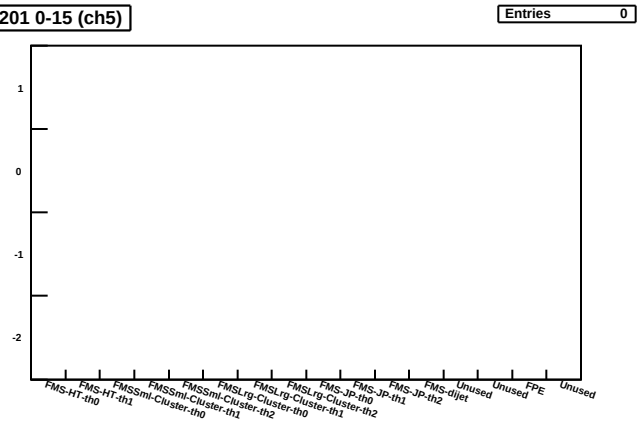




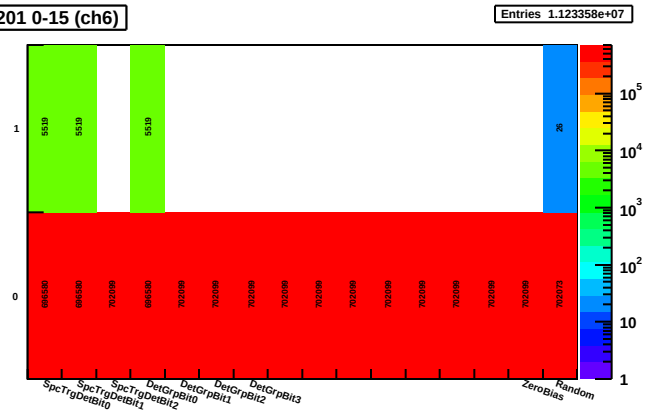
FP201 0-15 (ch5)

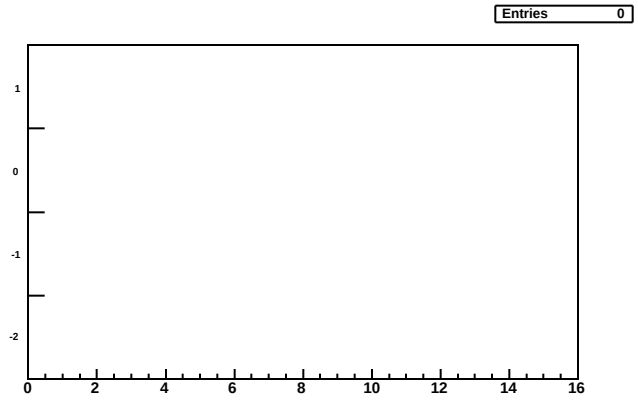
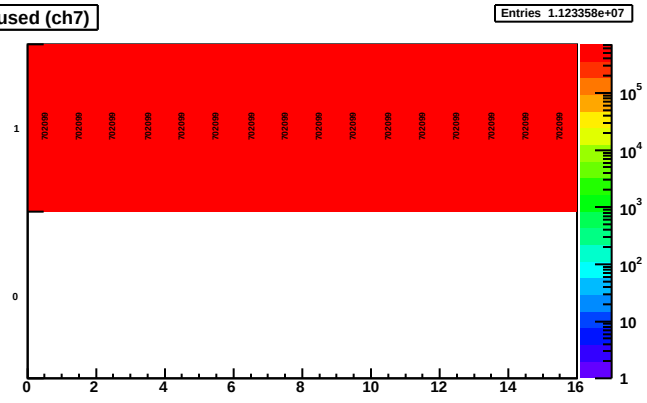
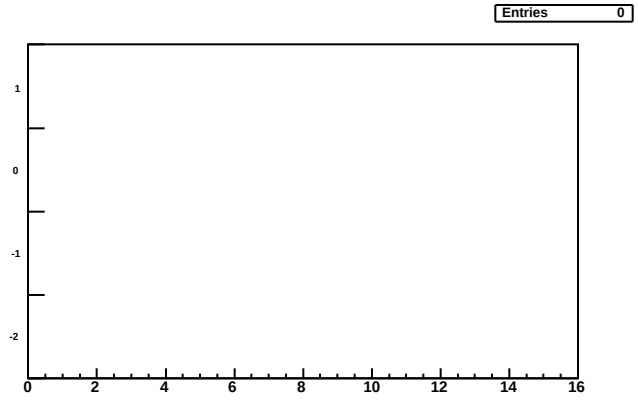


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)