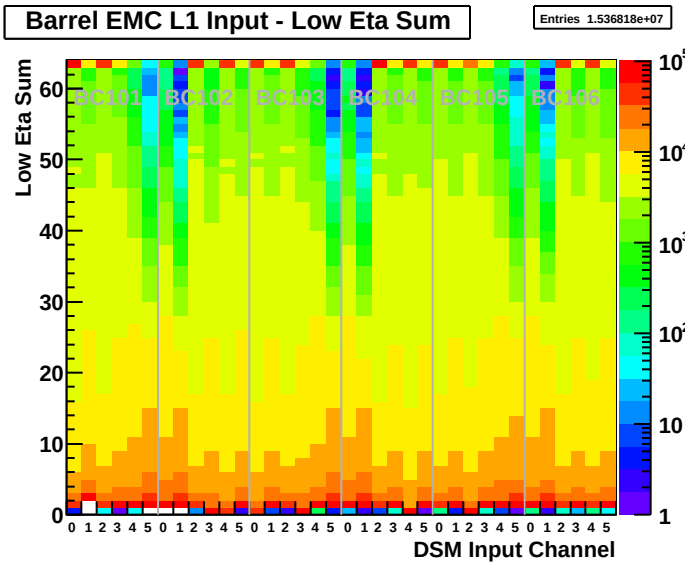
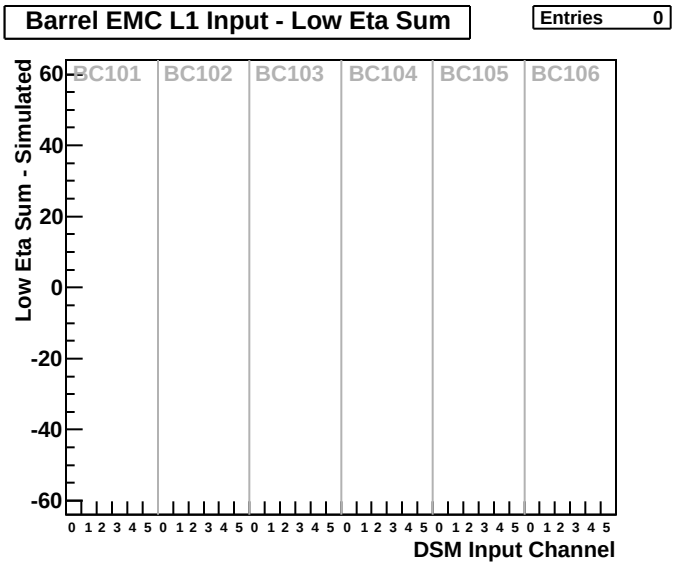
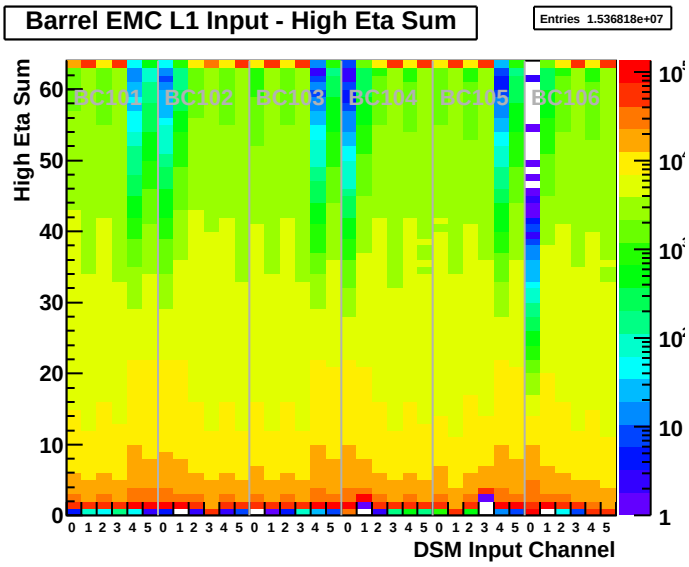
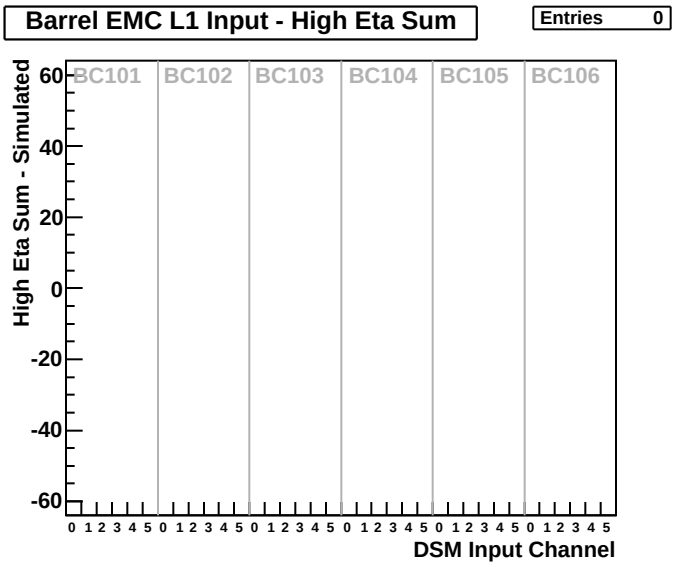
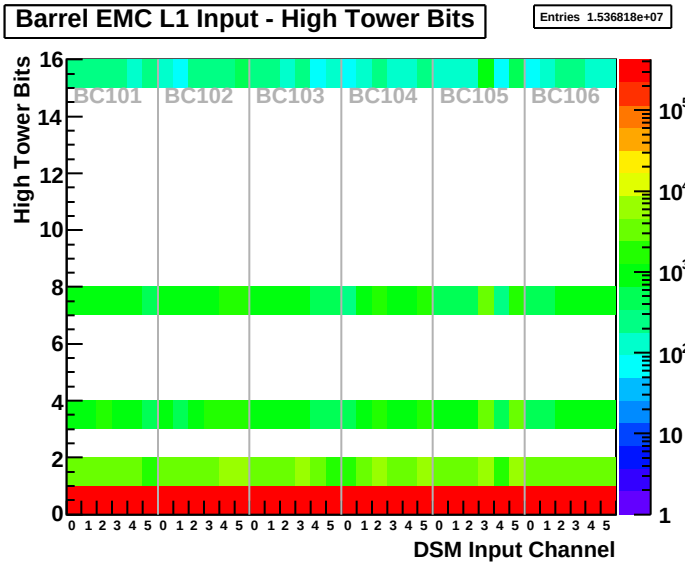
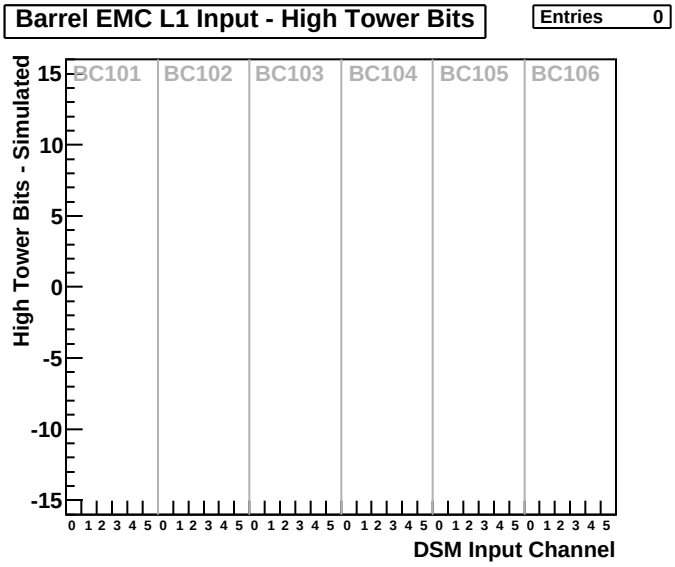

Barrel EMC L1 Input - Low Eta Sum
Entries 1.536818e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

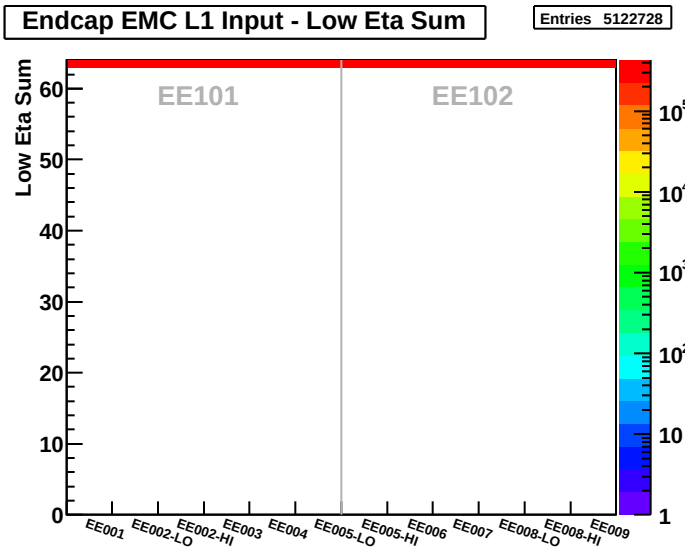

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

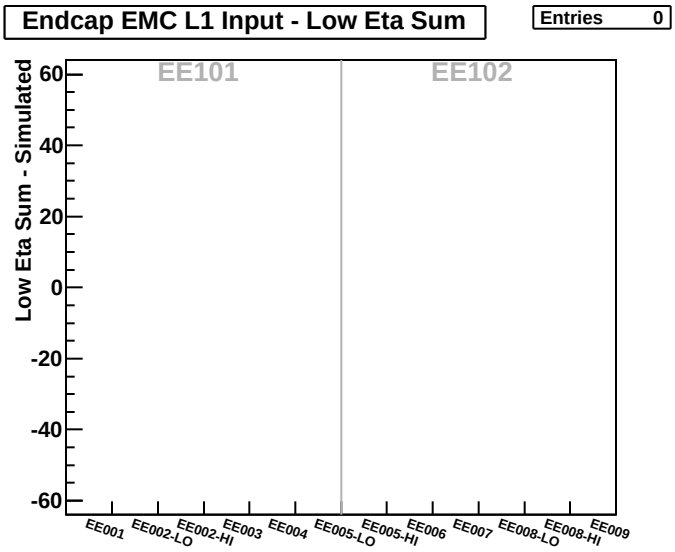

Barrel EMC L1 Input - High Eta Sum
Entries 1.536818e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

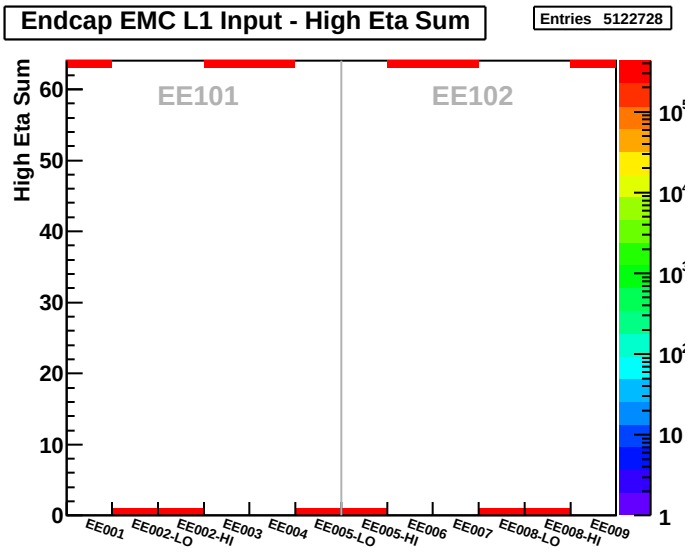

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

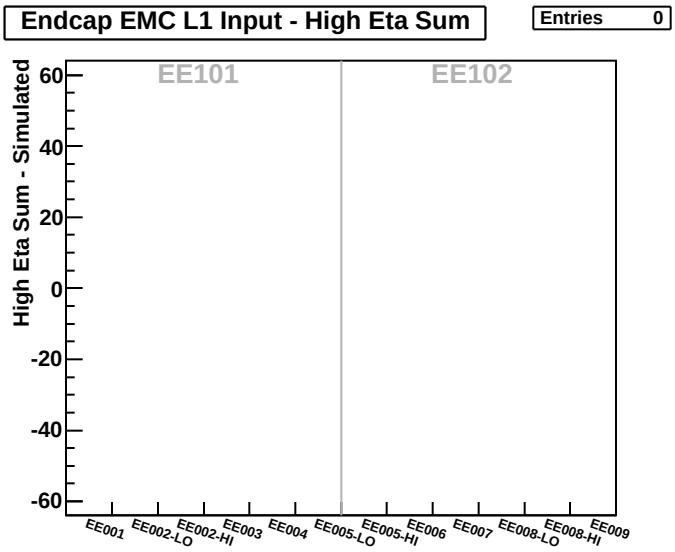

Barrel EMC L1 Input - High Tower Bits
Entries 1.536818e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

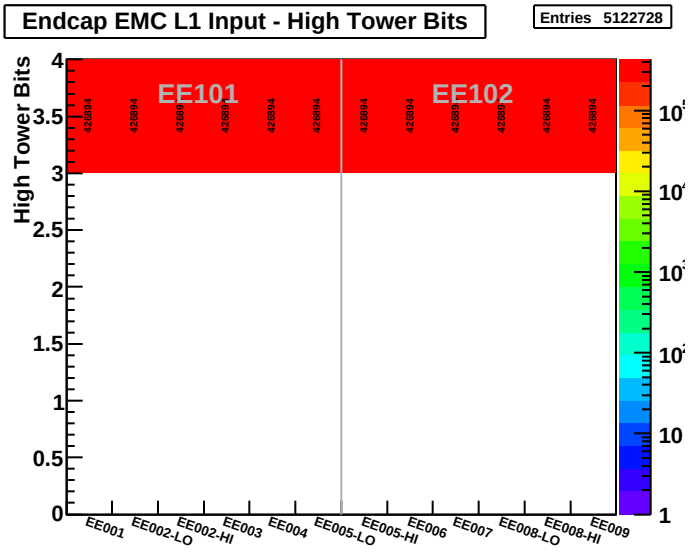

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

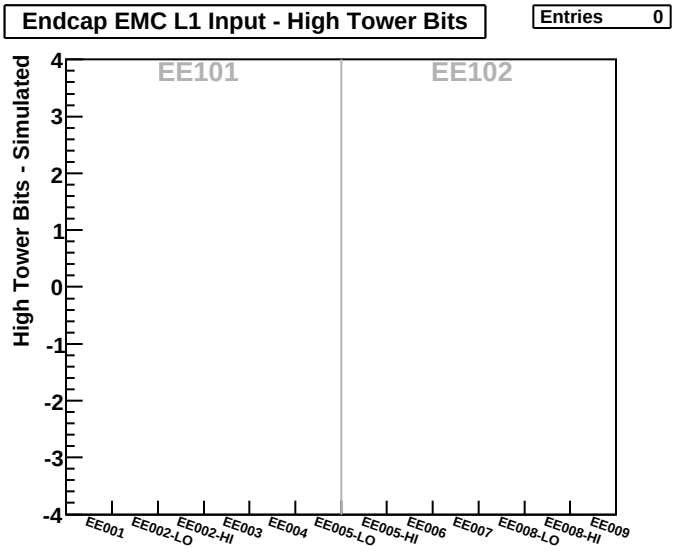

Endcap EMC L1 Input - Low Eta Sum
Entries 5122728
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

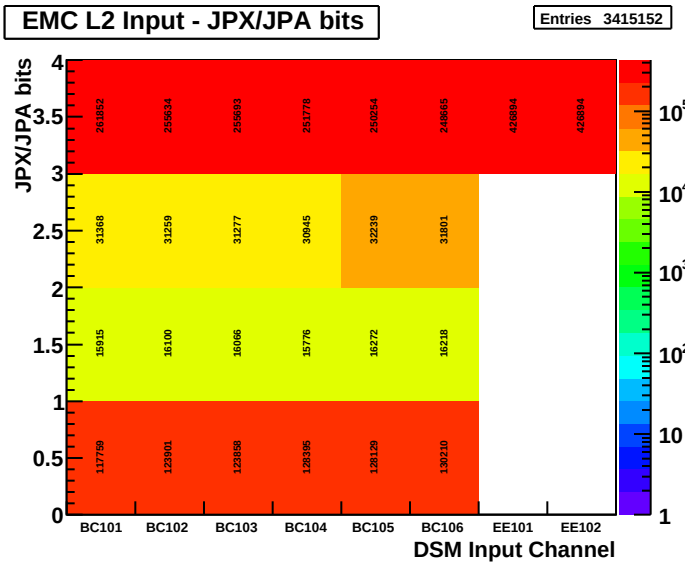

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

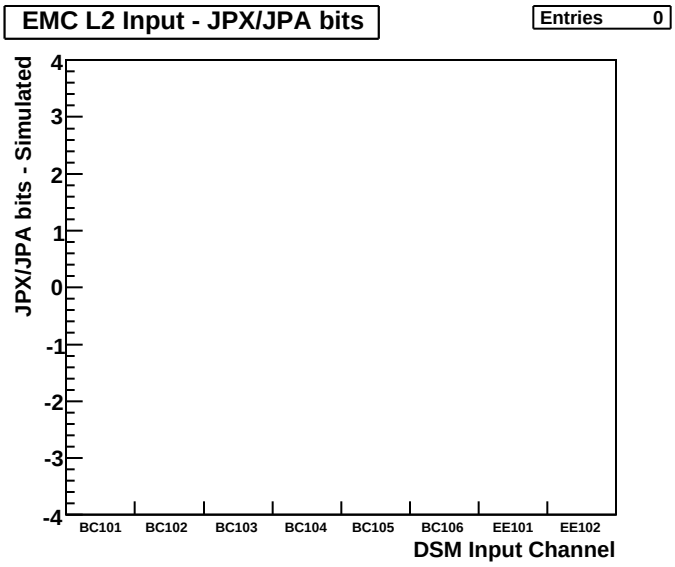

Endcap EMC L1 Input - High Eta Sum
Entries 5122728
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

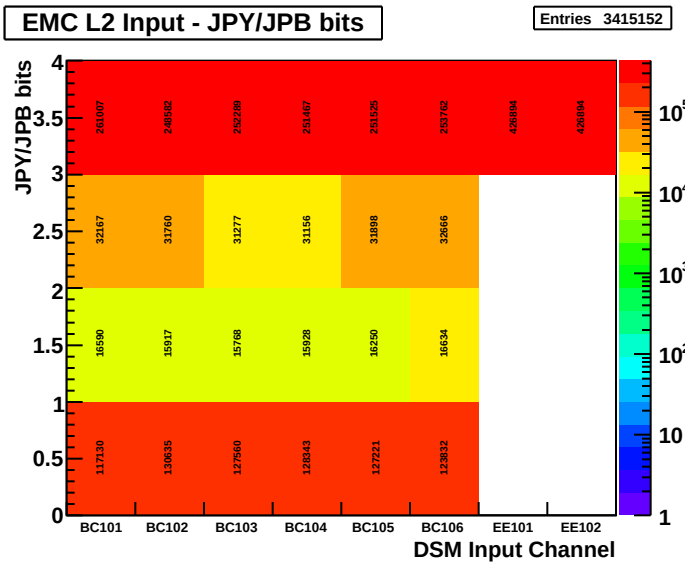

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

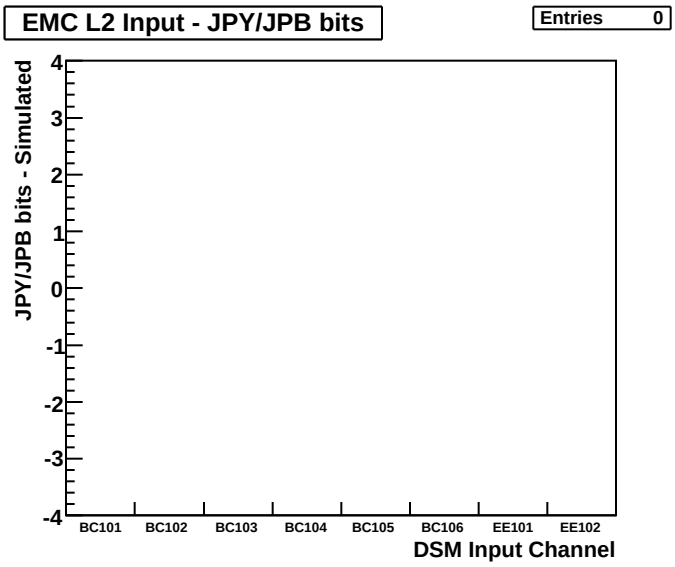

Endcap EMC L1 Input - High Tower Bits
Entries 5122728
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

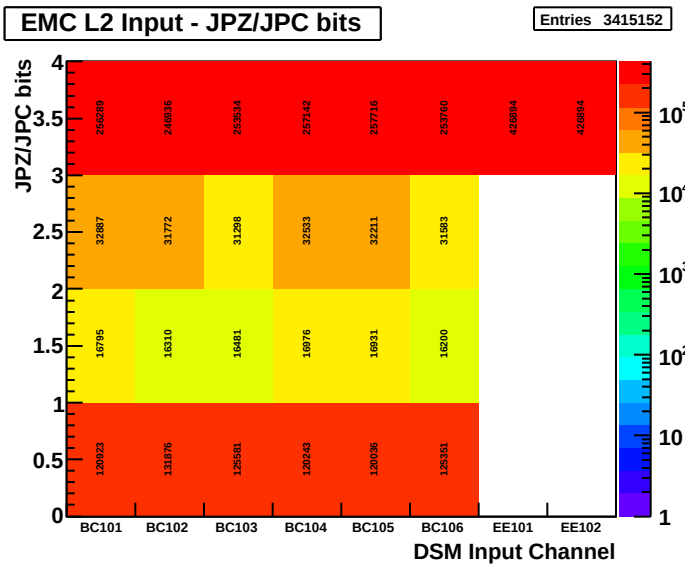

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

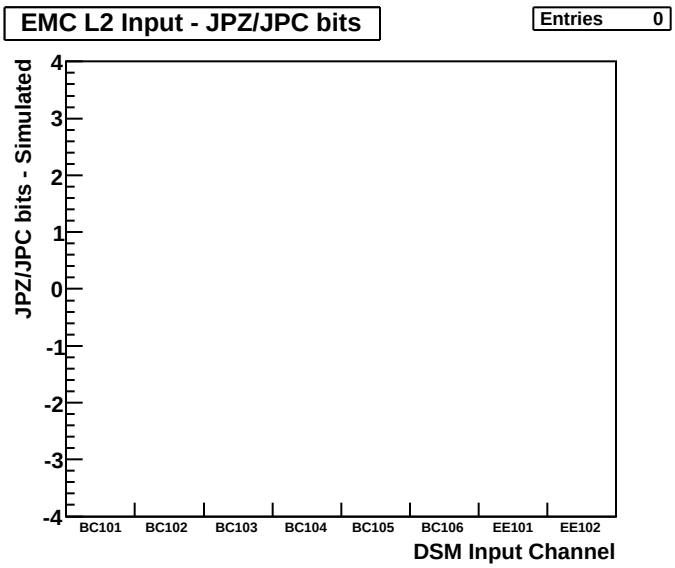

EMC L2 Input - JPX/JPA bits
Entries 3415152
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
251652 256634 255693 251778 250254 248865 426894 426894
31368 31259 31277 30945 32239 31801
15915 16100 16066 15776 16272 16218
117759 123901 123858 128395 128129 130210

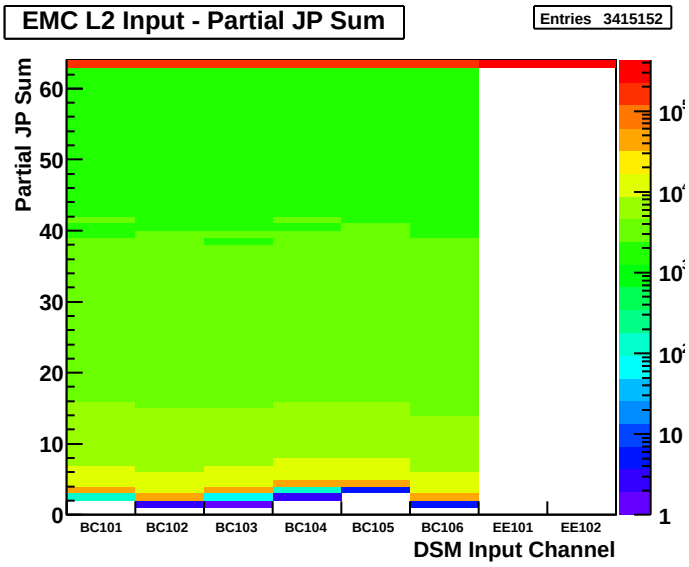

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

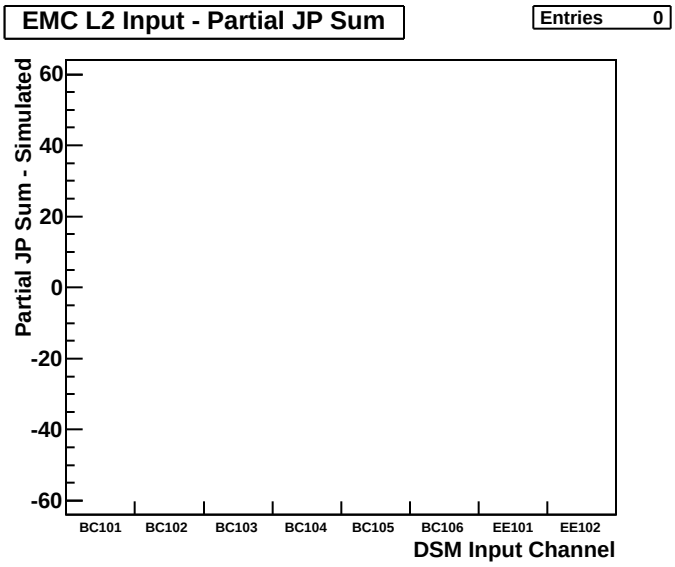

EMC L2 Input - JPY/JPB bits
Entries 3415152
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
261007 248582 252289 251467 251525 253762 426894 426894
32167 31760 31277 31156 31898 32666
16590 15917 15768 15928 16250 16634
117130 130635 127560 128343 127221 123932

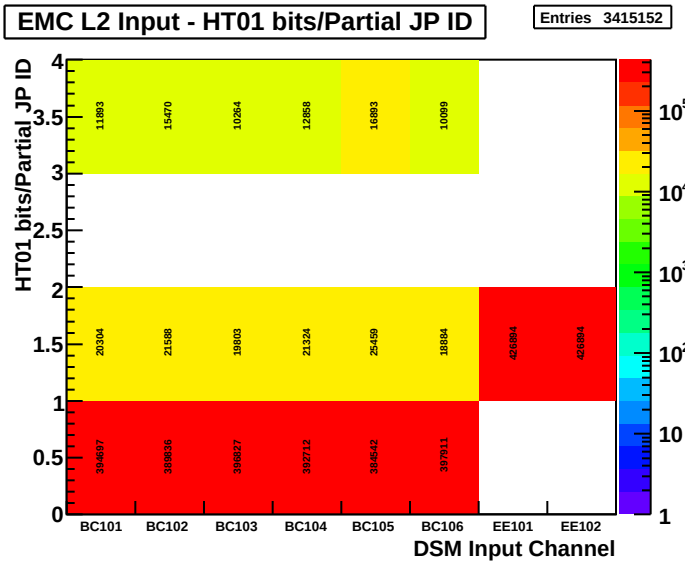

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

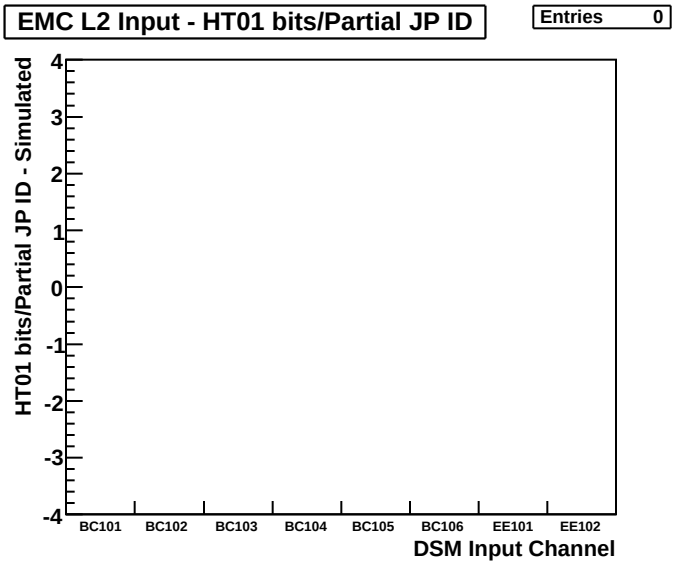

EMC L2 Input - JPZ/JPC bits
Entries 3415152
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
256289 248936 253534 257142 257716 253760 426894 426894
32887 31772 31298 32533 32211 31583
16795 16310 16481 16976 16931 16200
120923 131876 125581 120243 120036 125351

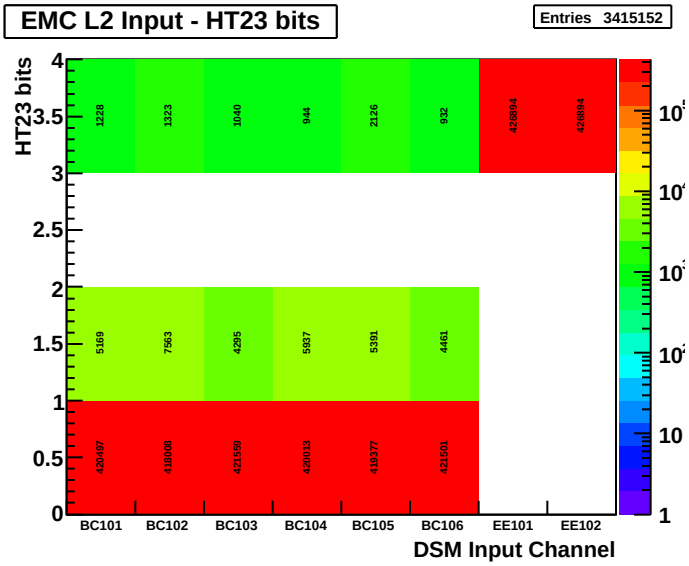

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

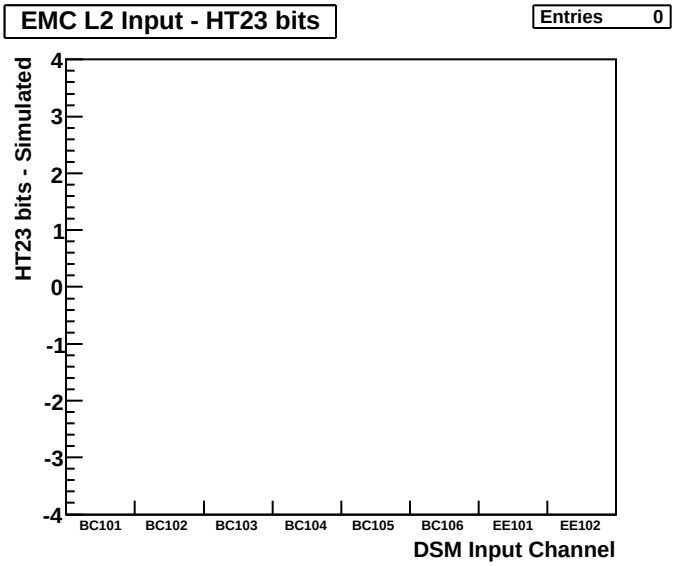

EMC L2 Input - Partial JP Sum
Entries 3415152
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

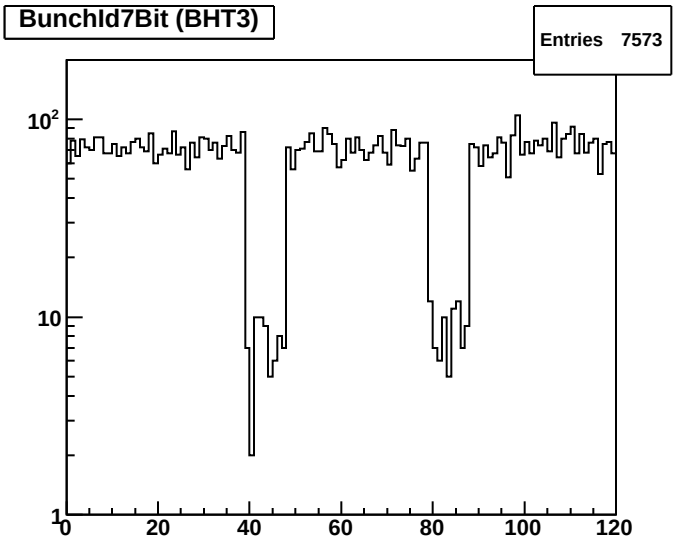

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

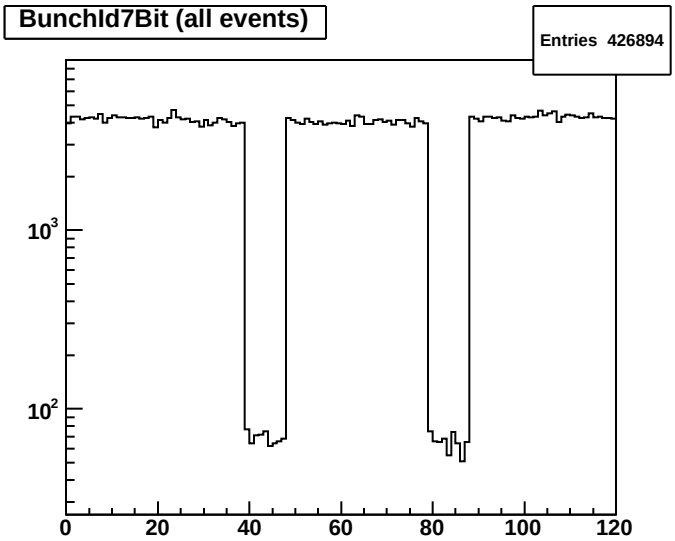

EMC L2 Input - HT01 bits/Partial JP ID
Entries 3415152
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

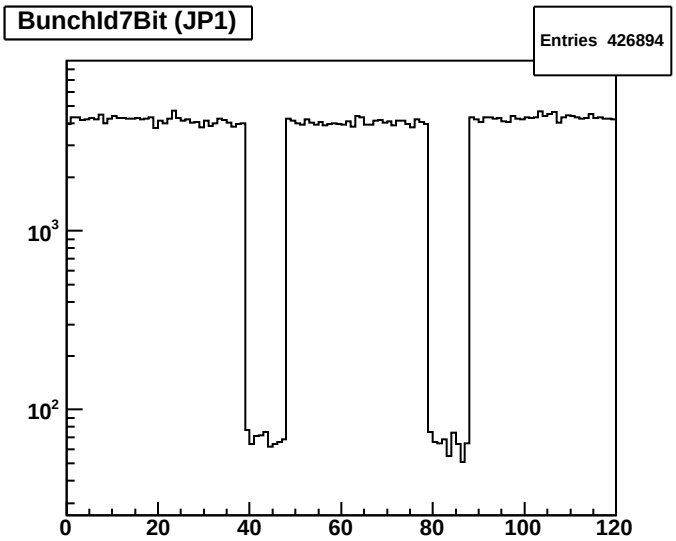

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

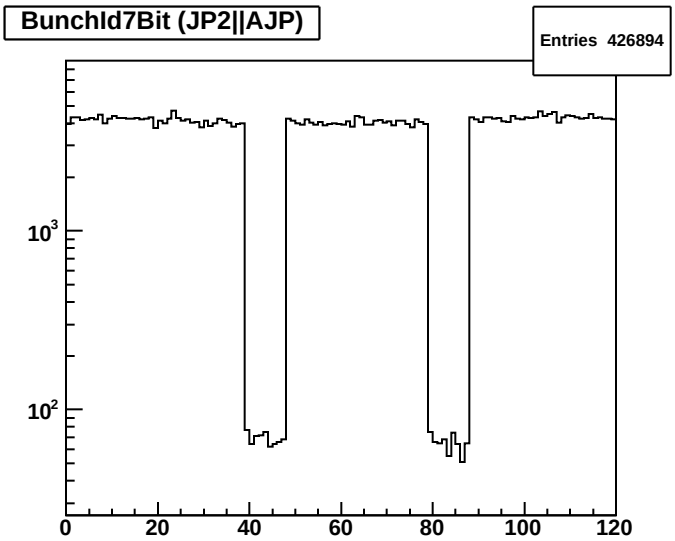

EMC L2 Input - HT23 bits
Entries 3415152
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

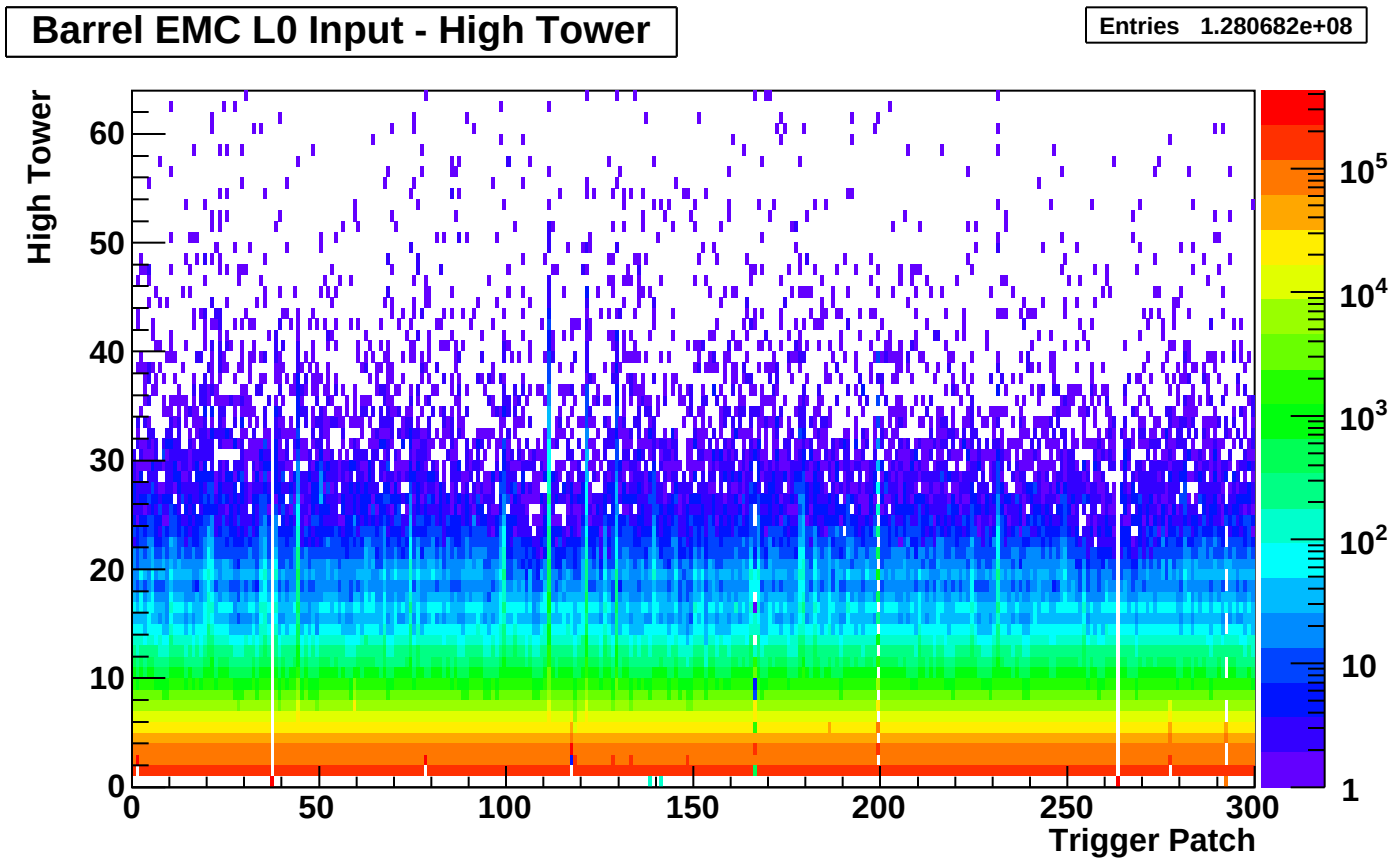

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

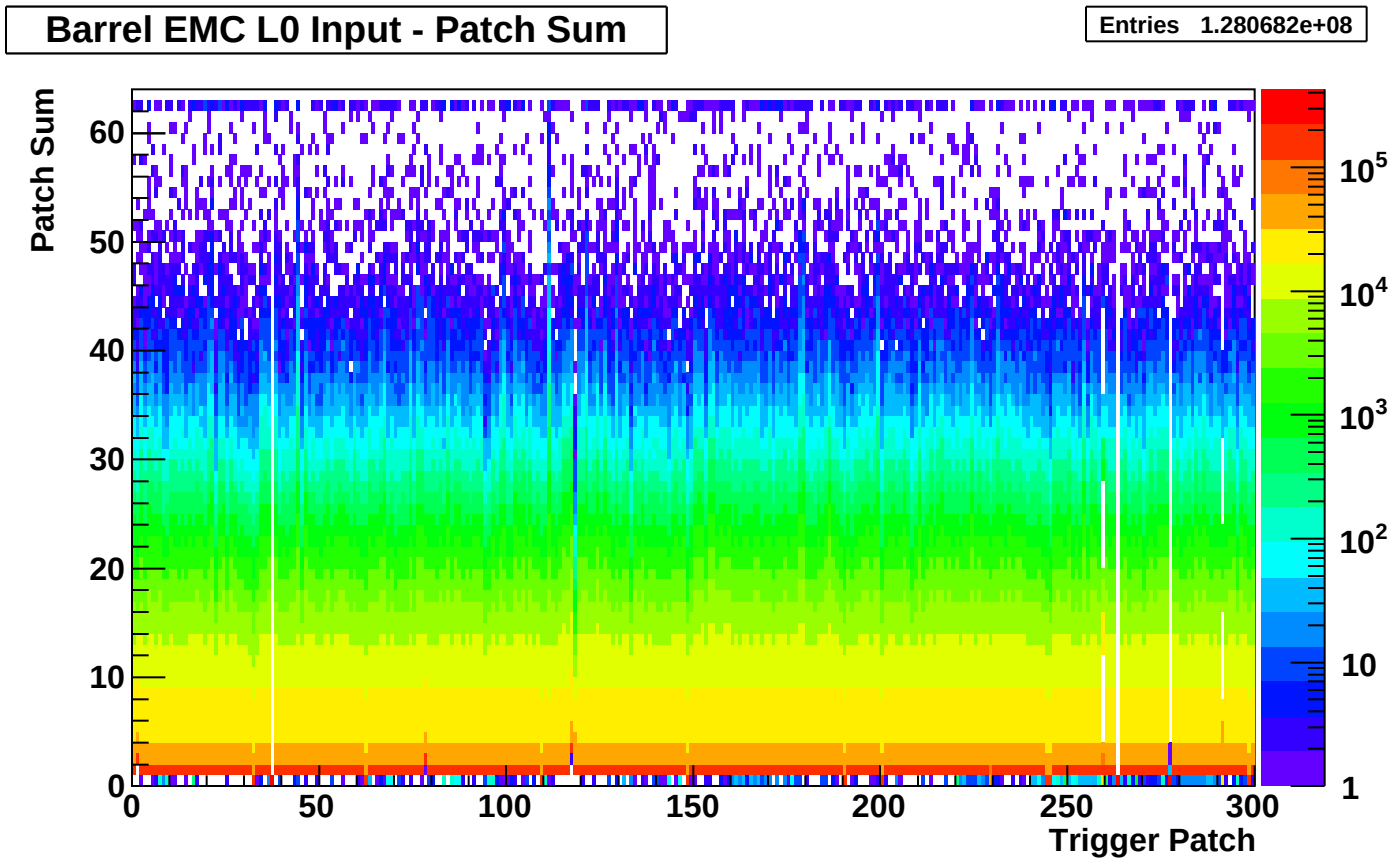

BunchId7Bit (BHT3)
Entries 7573
10^2
10
1
0
20
40
60
80
100
120

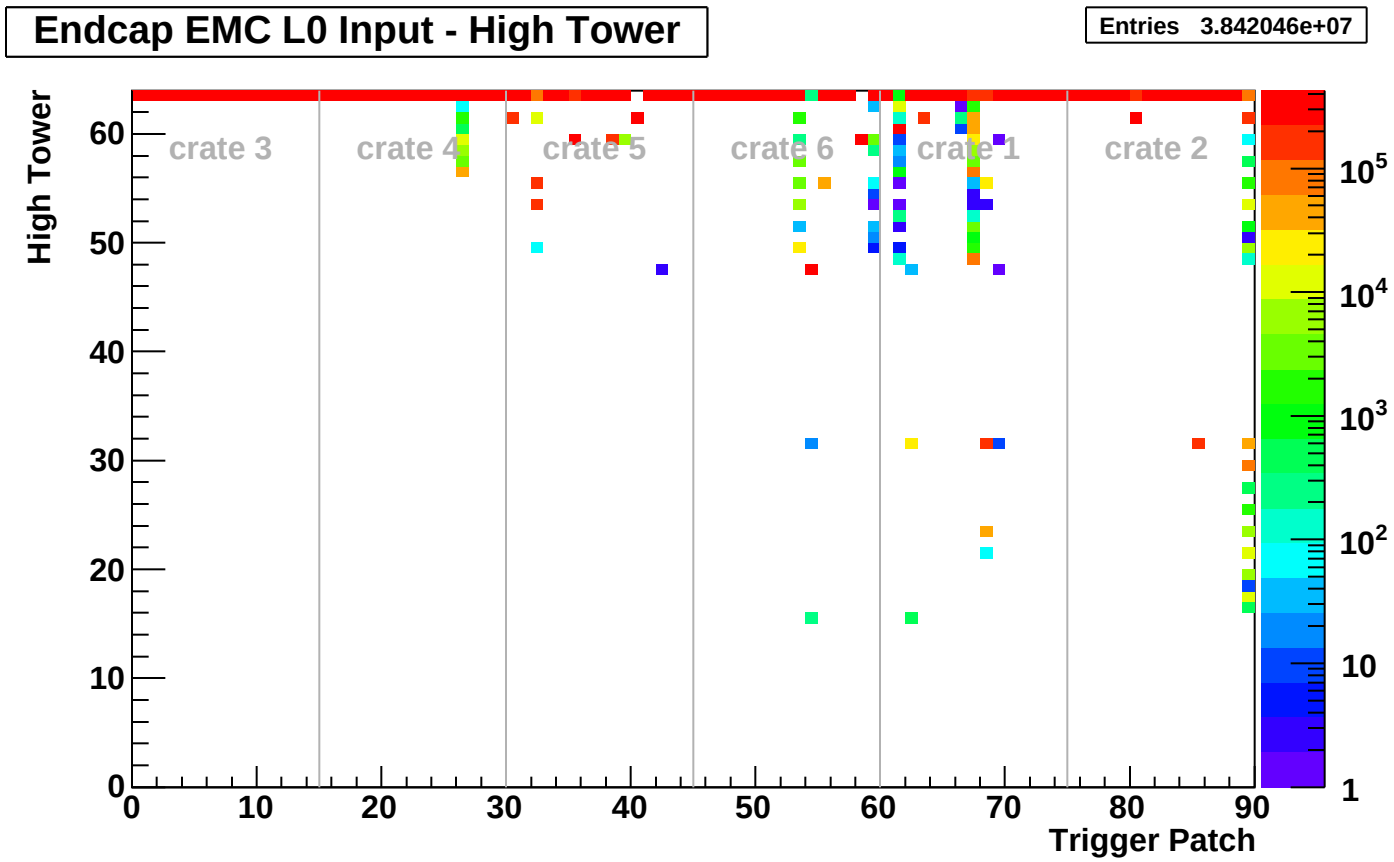

BunchId7Bit (all events)
Entries 426894
10^3
10^2
0
20
40
60
80
100
120

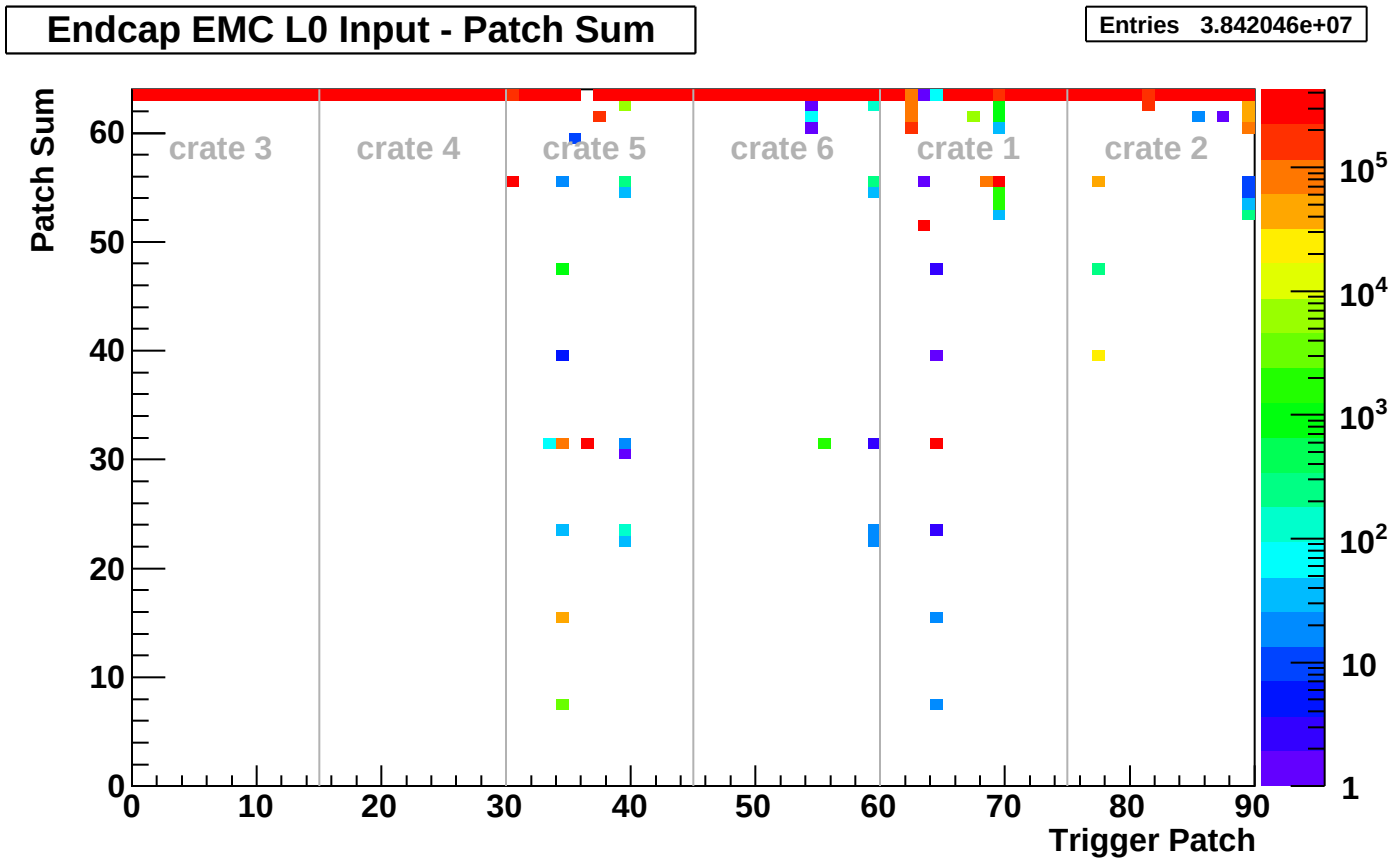

BunchId7Bit (JP1)
Entries 426894
10^3
10^2
0
20
40
60
80
100
120

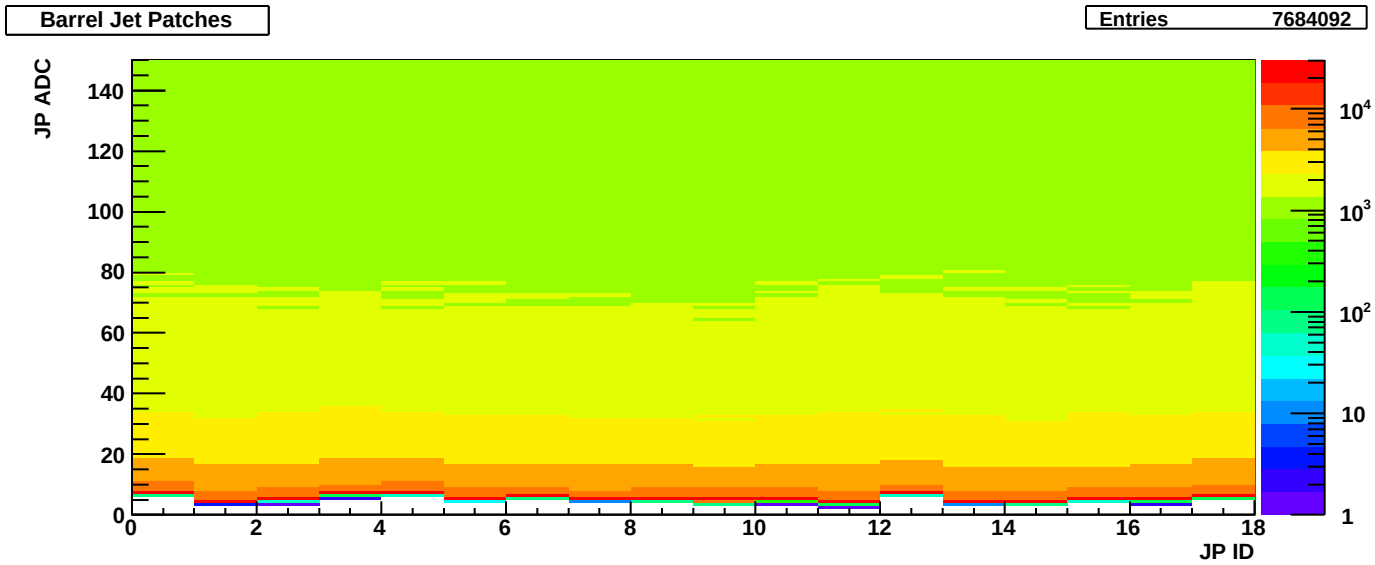

BunchId7Bit (JP2||AJP)
Entries 426894
10^3
10^2
0
20
40
60
80
100
120

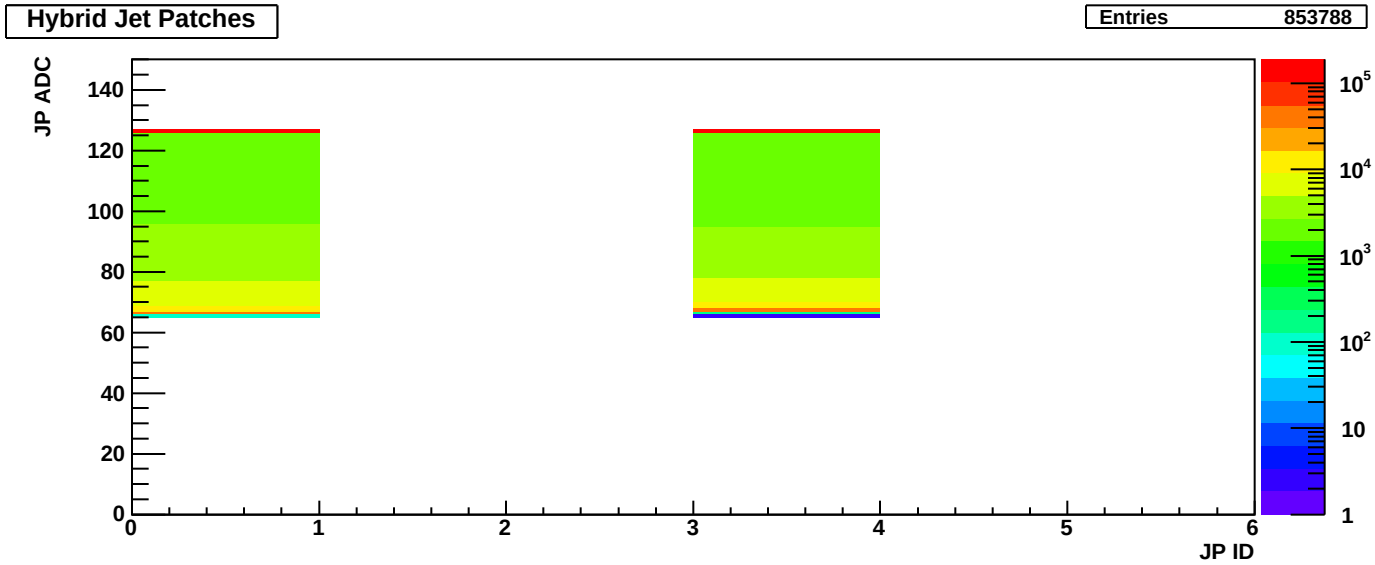

Barrel EMC L0 Input - High Tower
Entries 1.280682e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

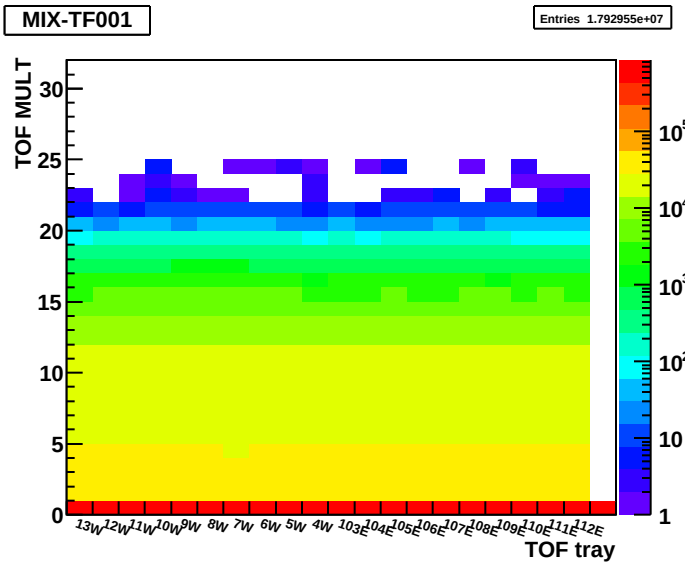

Barrel EMC L0 Input - Patch Sum
Entries 1.280682e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5

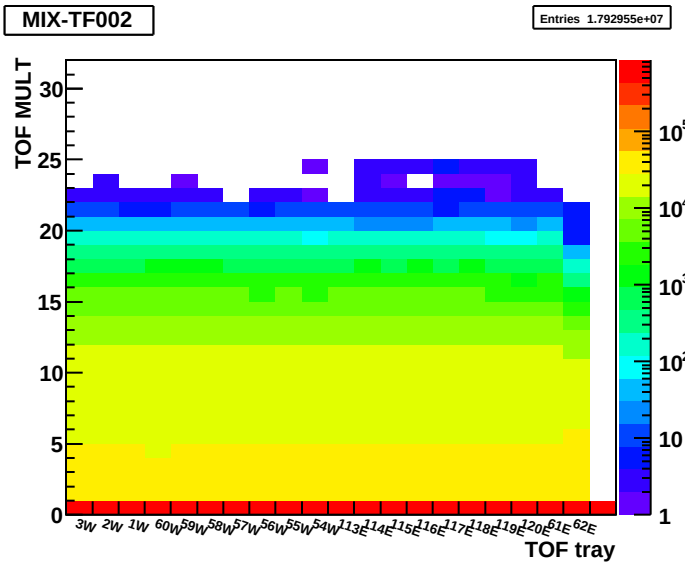

Endcap EMC L0 Input - High Tower
Entries 3.842046e+07
High Tower
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

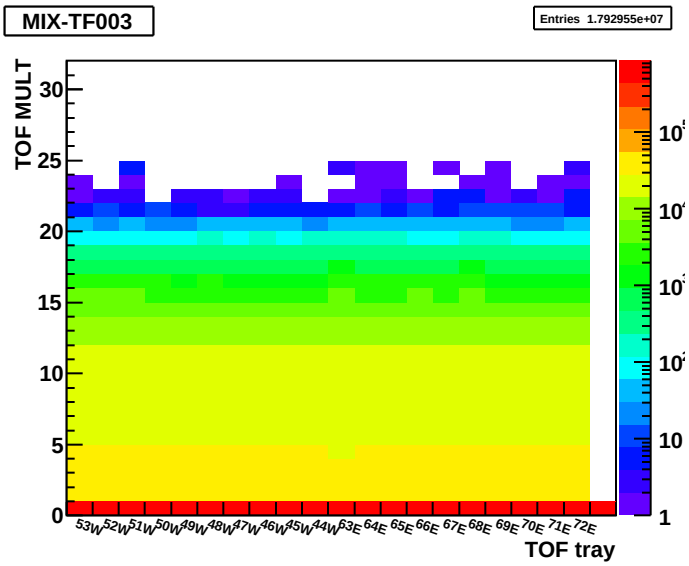

Endcap EMC L0 Input - Patch Sum
Entries 3.842046e+07
Patch Sum
Trigger Patch
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2

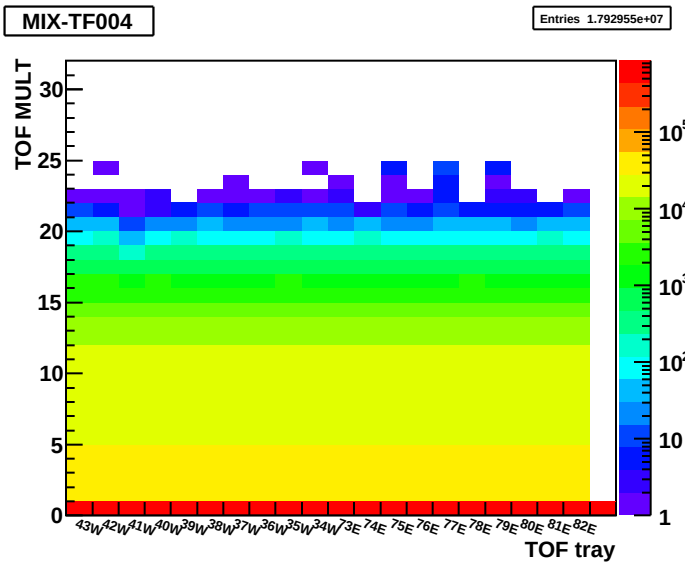

Barrel Jet Patches
Entries 7684092
JP ADC
JP ID

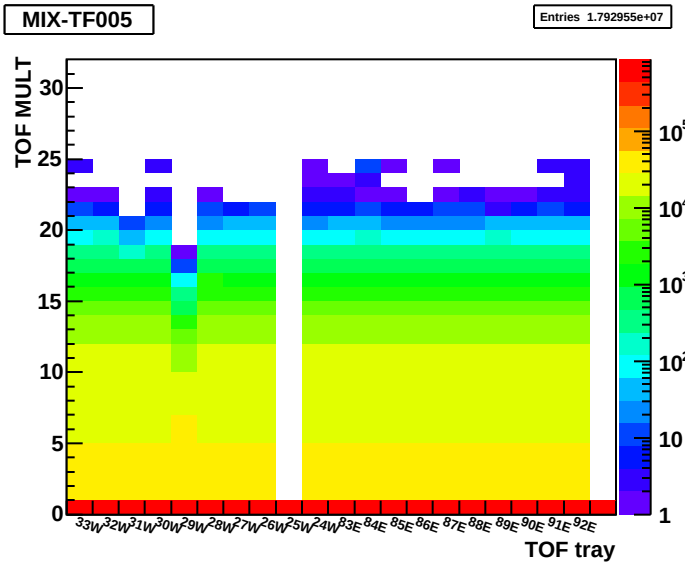

Hybrid Jet Patches
Entries 853788
JP ADC
JP ID

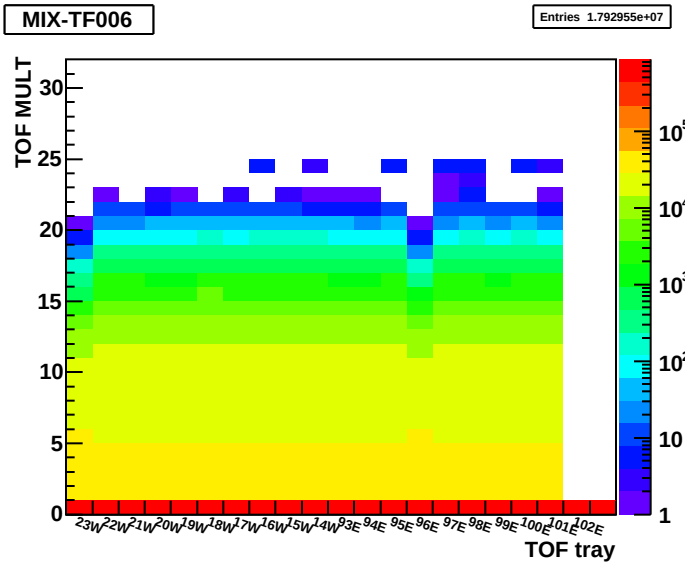

MIX-TF001
Entries 1.792955e+07
TOF MULT
TOF tray

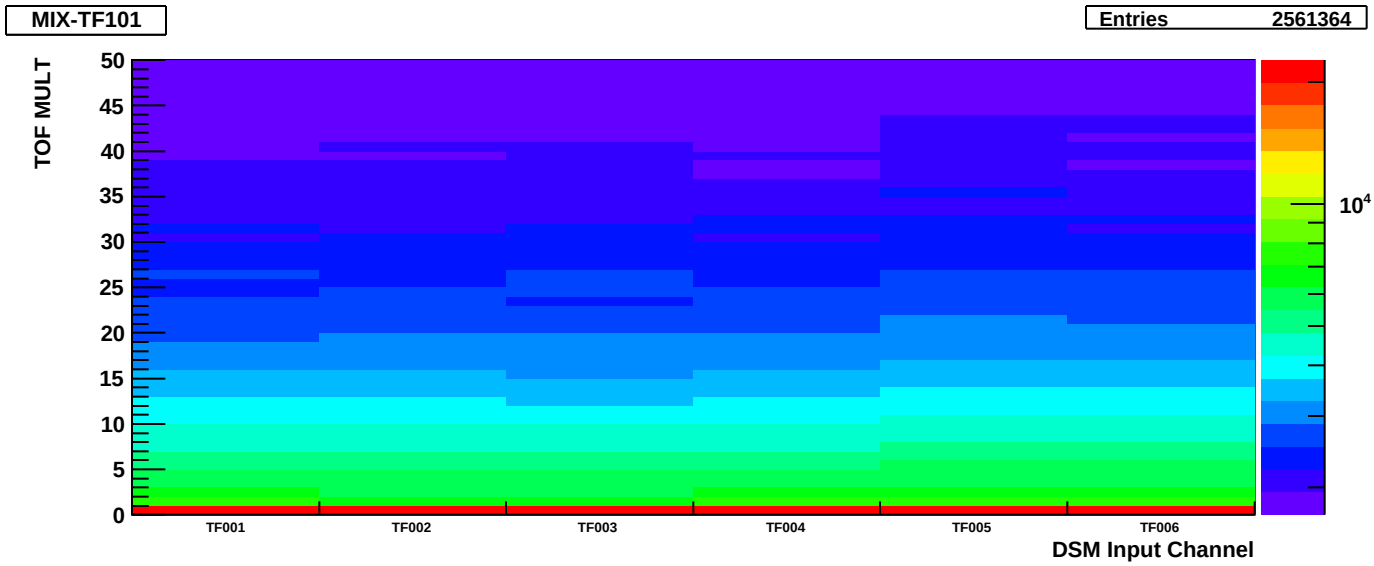

MIX-TF002
Entries 1.792955e+07
TOF MULT
TOF tray

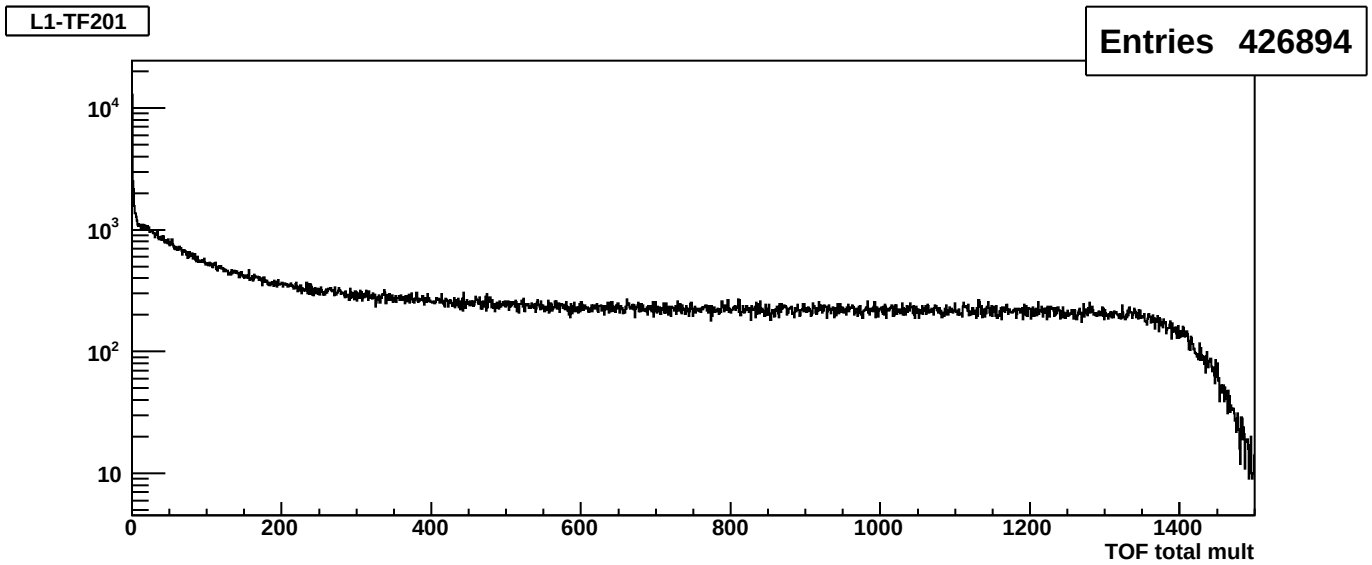

MIX-TF003
Entries 1.792955e+07
TOF MULT
TOF tray

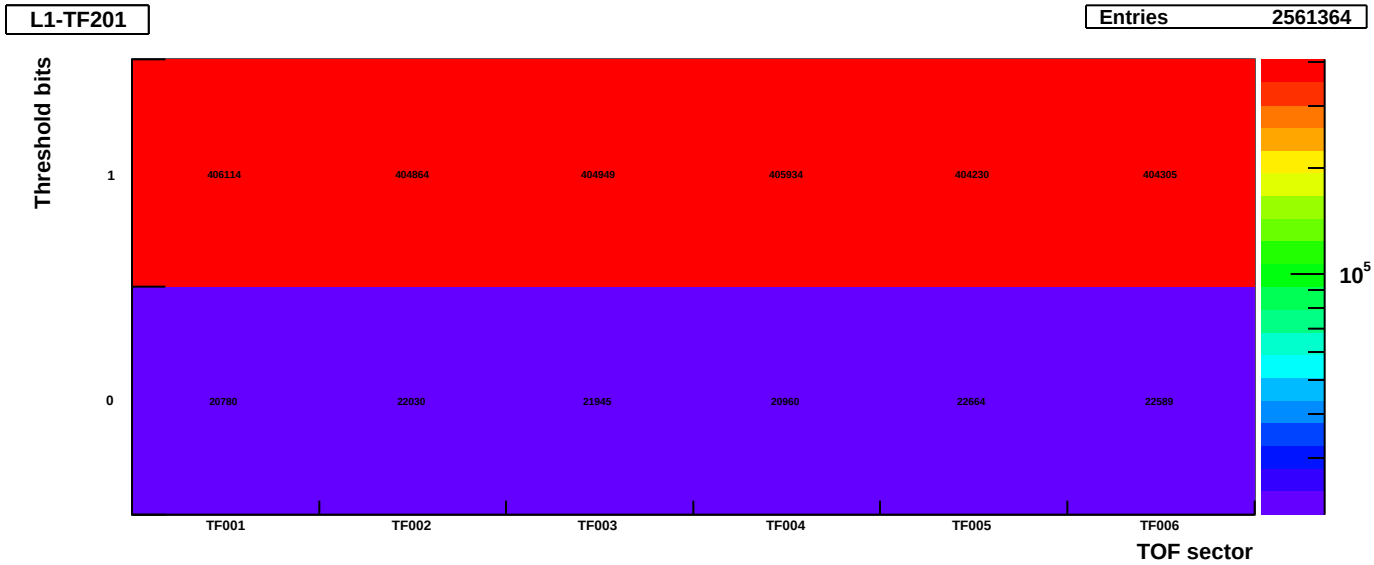

MIX-TF004
Entries 1.792955e+07
TOF MULT
TOF tray

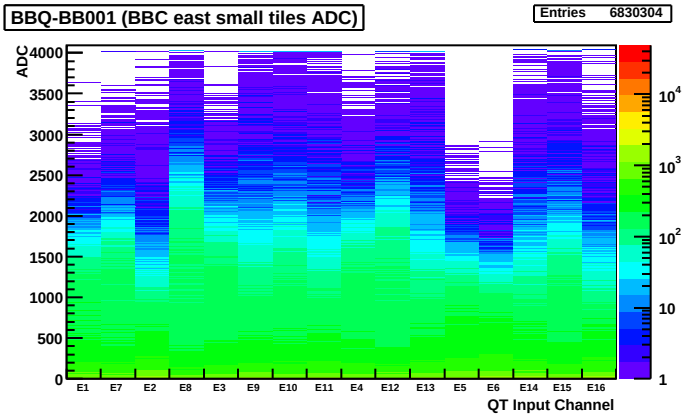

MIX-TF005
Entries 1.792955e+07
TOF MULT
TOF tray

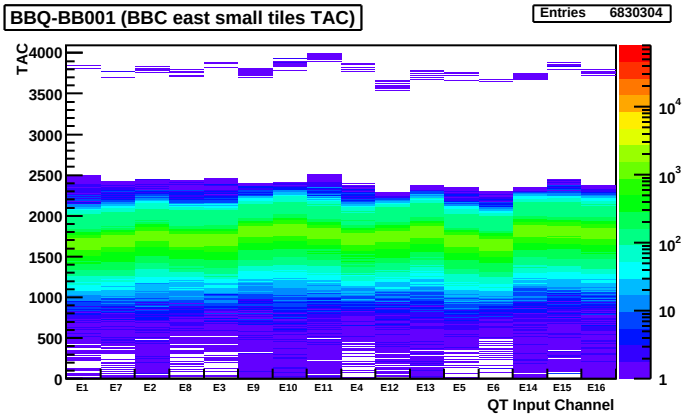

MIX-TF006
Entries 1.792955e+07
TOF MULT
TOF tray

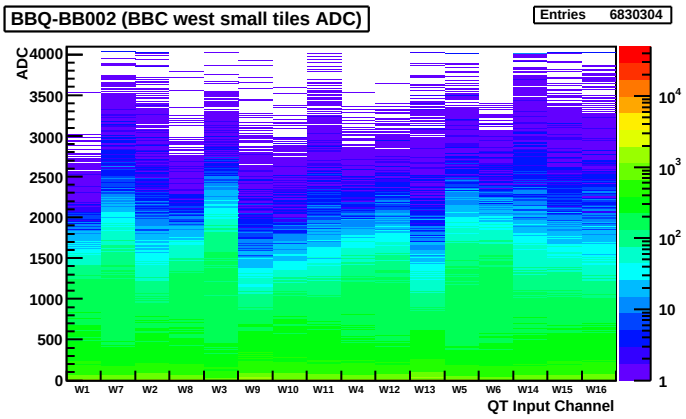

MIX-TF101
Entries 2561364
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^4

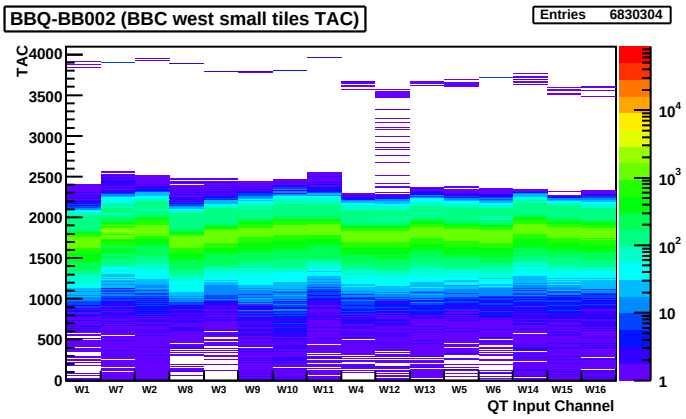

L1-TF201
Entries 426894
10^4
10^3
10^2
10
0
200
400
600
800
1000
1200
1400
TOF total mult

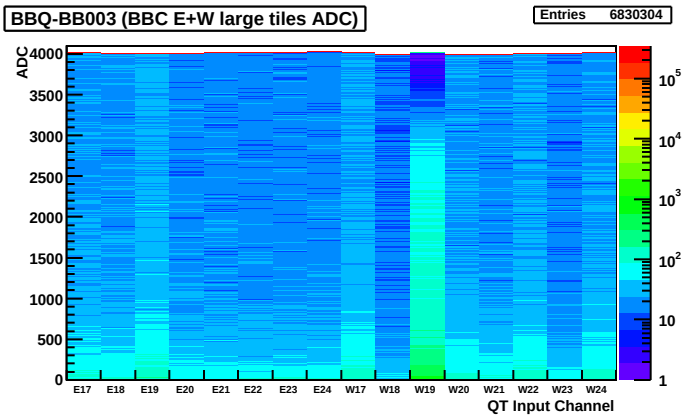

L1-TF201
Entries 2561364
Threshold bits
1
0
406114
404864
404949
405934
404230
404305
20780
22030
21945
20960
22664
22589
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^5

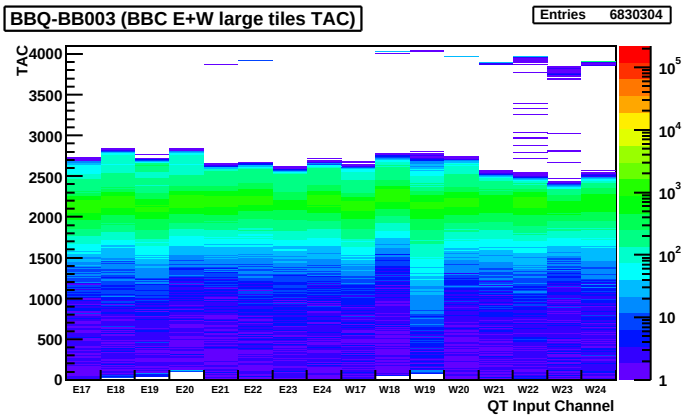

BBQ-BB001 (BBC east small tiles ADC)
Entries 6830304
ADC
QT Input Channel

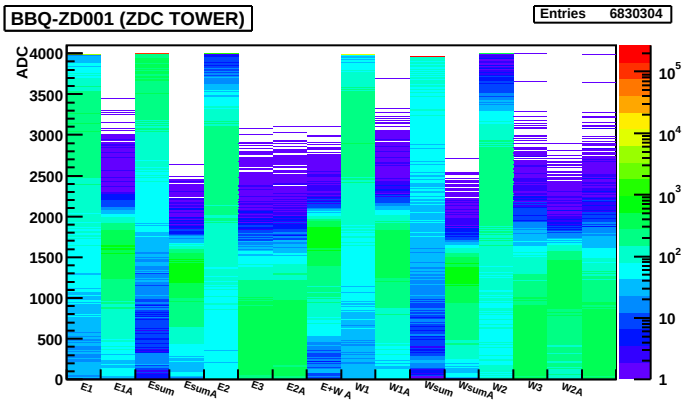

BBQ-BB001 (BBC east small tiles TAC)
Entries 6830304
TAC
QT Input Channel

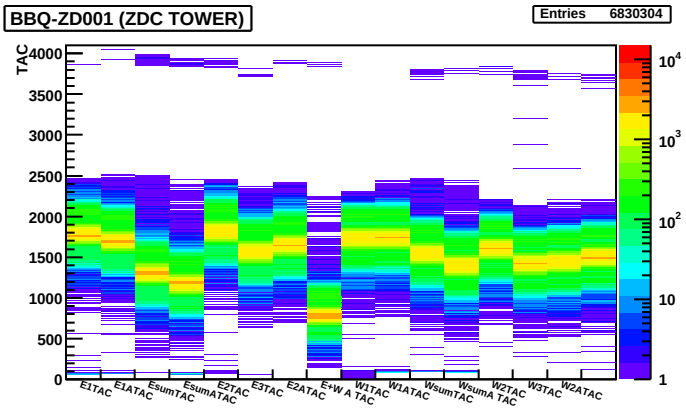

BBQ-BB002 (BBC west small tiles ADC)
Entries 6830304
ADC
QT Input Channel

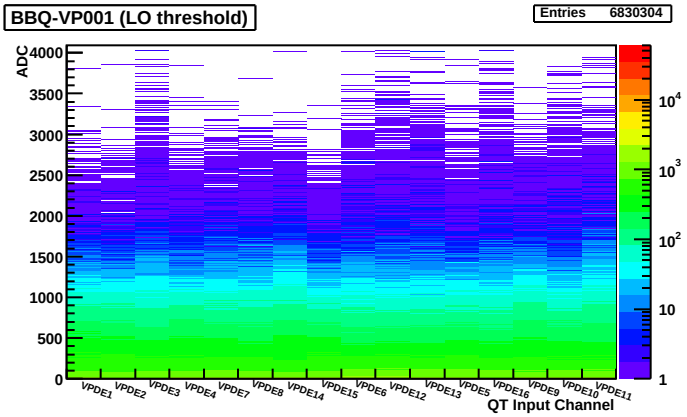

BBQ-BB002 (BBC west small tiles TAC)
Entries 6830304
TAC
QT Input Channel

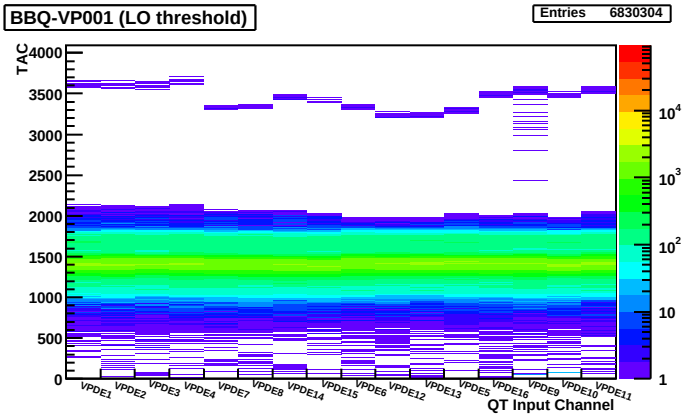

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 6830304
ADC
QT Input Channel

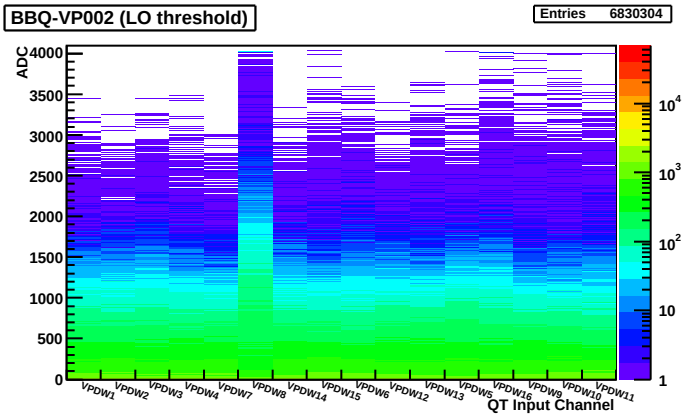

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 6830304
TAC
QT Input Channel

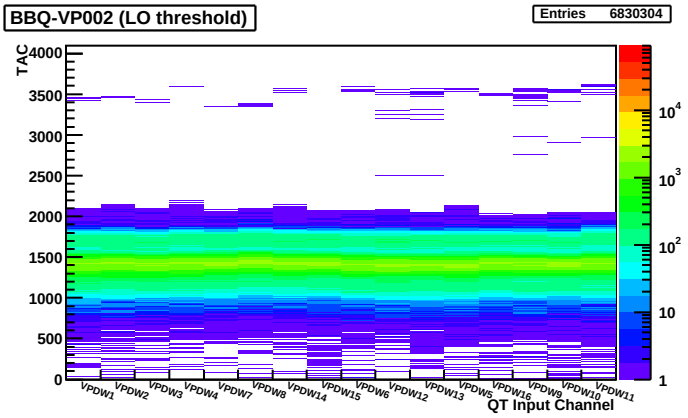

BBQ-ZD001 (ZDC TOWER)
Entries 6830304
ADC

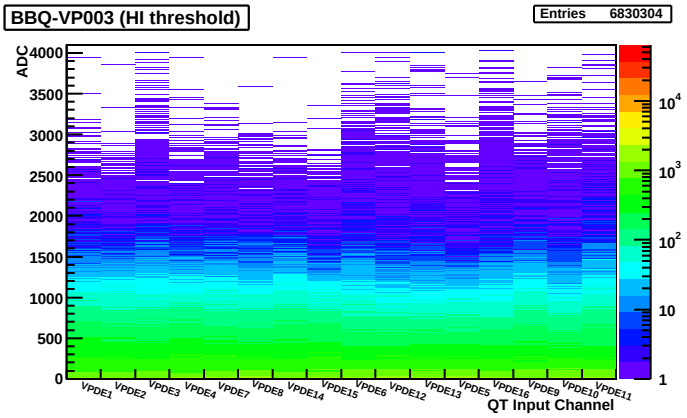

BBQ-ZD001 (ZDC TOWER)
Entries 6830304
TAC

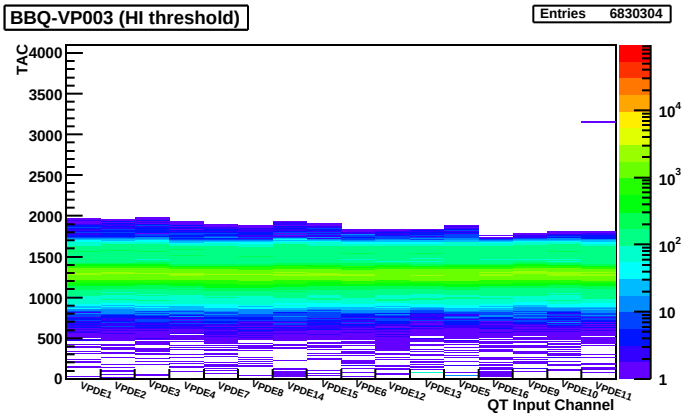

BBQ-VP001 (LO threshold)
Entries 6830304
ADC
QT Input Channel

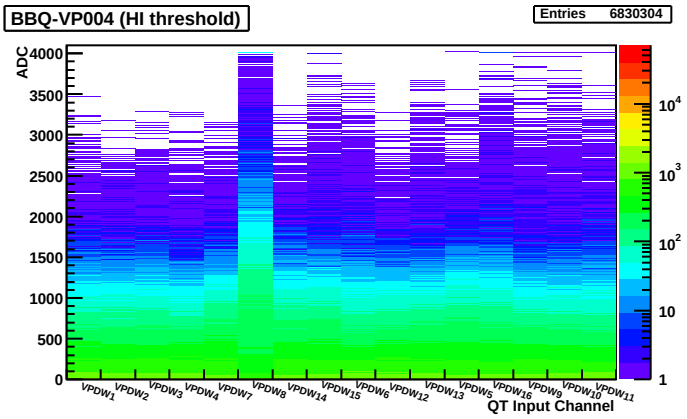

BBQ-VP001 (LO threshold)
Entries 6830304
TAC
QT Input Channel

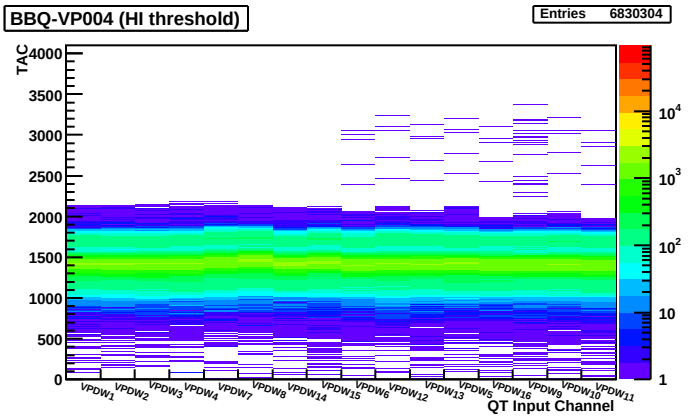

BBQ-VP002 (LO threshold)
Entries 6830304
ADC
QT Input Channel

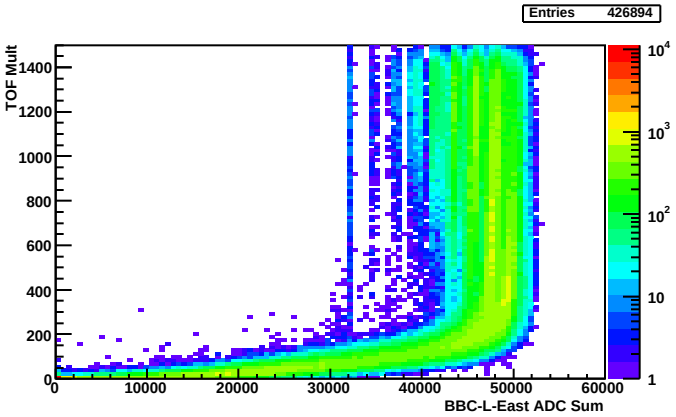

BBQ-VP002 (LO threshold)
Entries 6830304
TAC
QT Input Channel

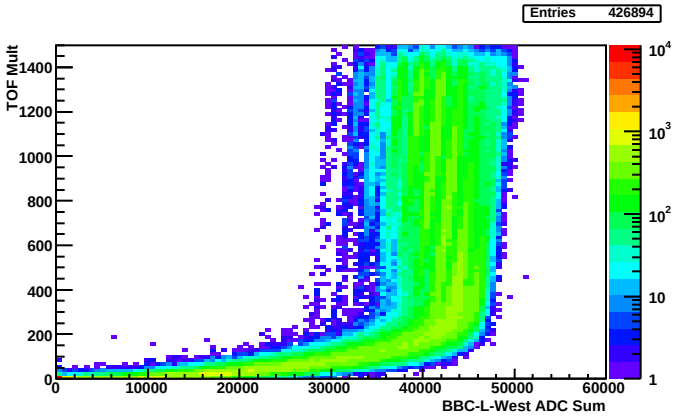

BBQ-VP003 (HI threshold)
Entries 6830304
ADC
QT Input Channel

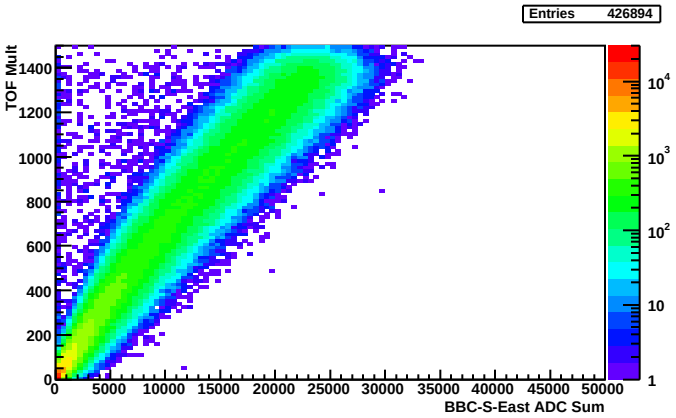

BBQ-VP003 (HI threshold)
Entries 6830304
TAC
QT Input Channel

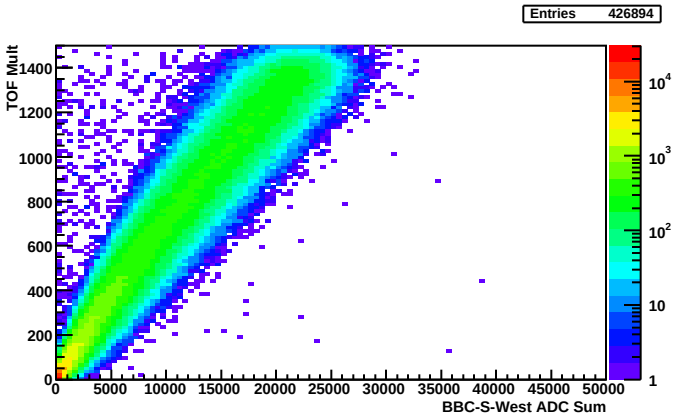

BBQ-VP004 (HI threshold)
Entries 6830304
ADC
QT Input Channel

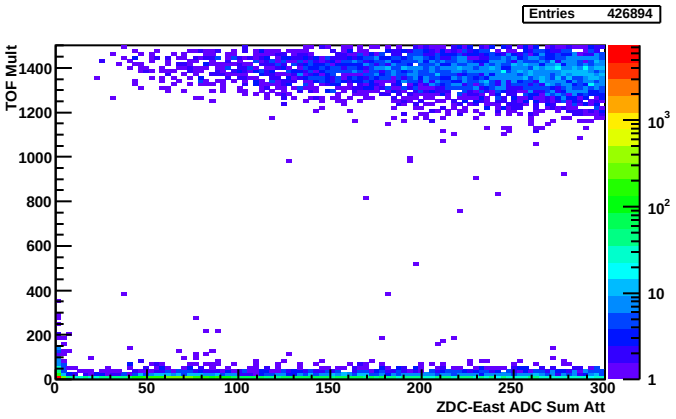

BBQ-VP004 (HI threshold)
Entries 6830304
TAC
QT Input Channel

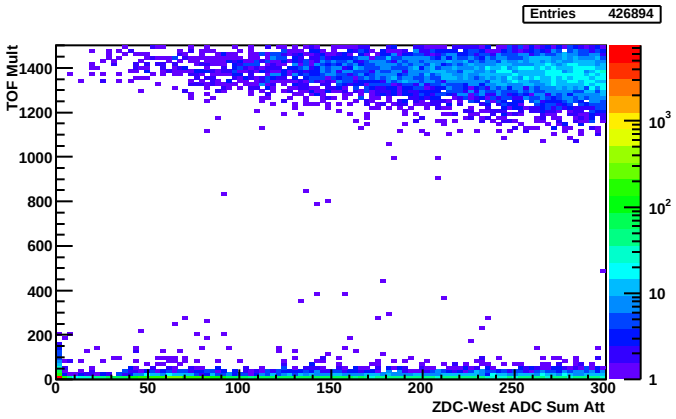

Entries 426894
TOF Mult
BBC-L-East ADC Sum

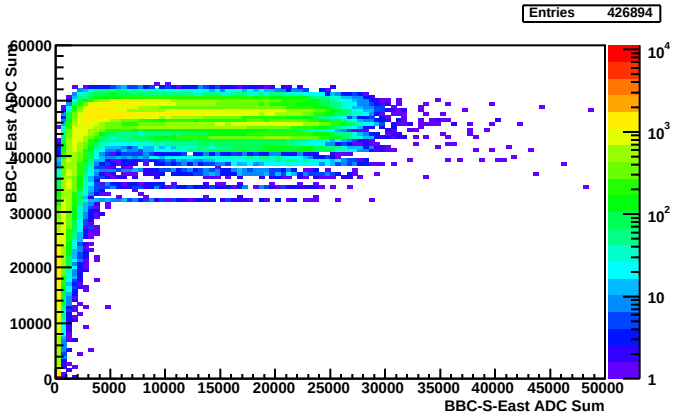

Entries 426894
TOF Mult
BBC-L-West ADC Sum

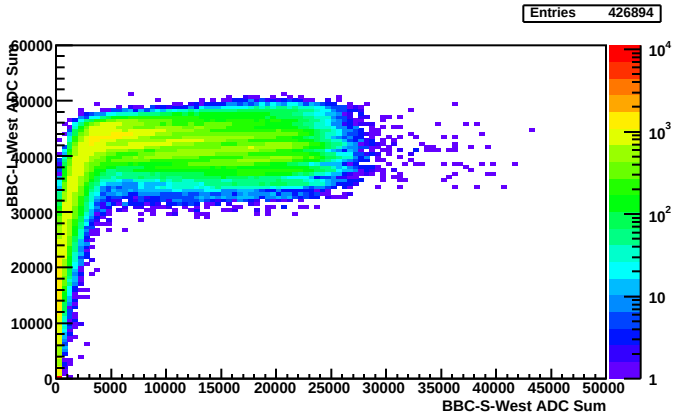

Entries 426894
TOF Mult
BBC-S-East ADC Sum

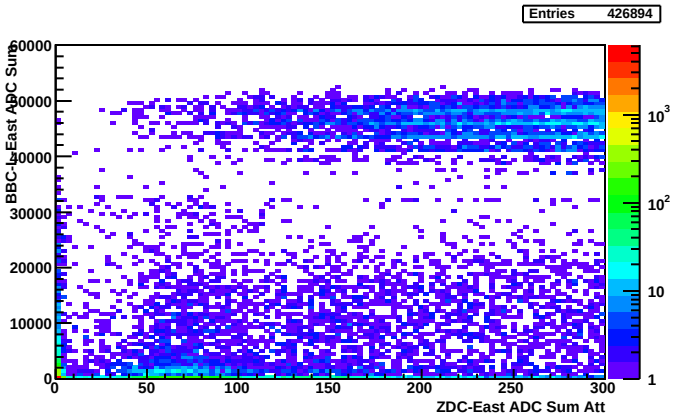

Entries 426894
TOF Mult
BBC-S-West ADC Sum

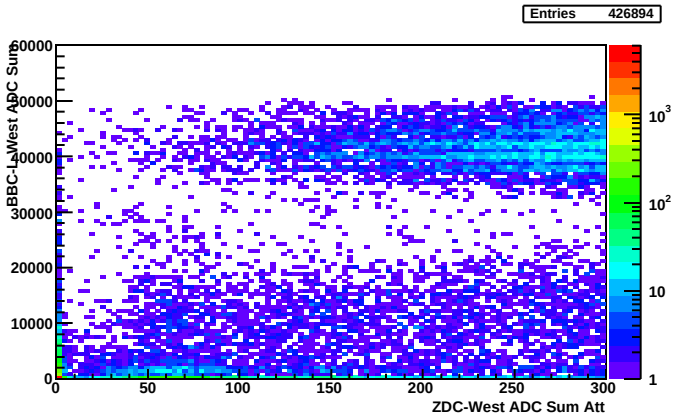

Entries 426894
TOF Mult
ZDC-East ADC Sum Att

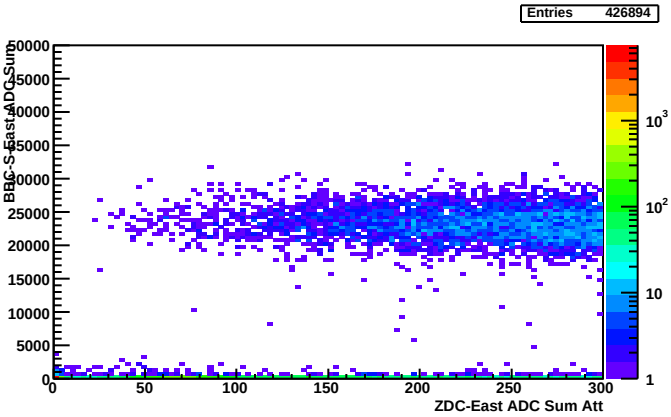

Entries 426894
TOF Mult
ZDC-West ADC Sum Att

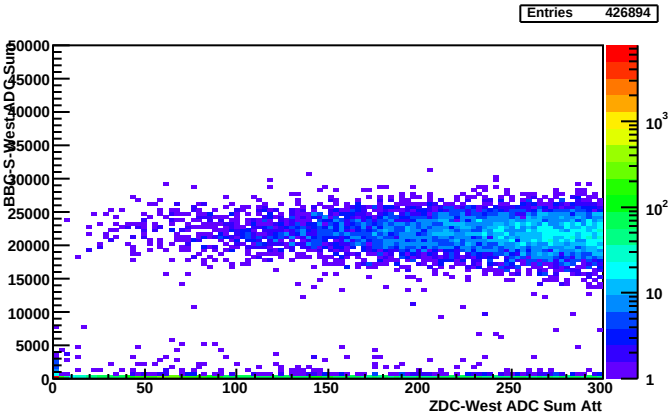

Entries 426894
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 426894
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 426894
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 426894
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 426894
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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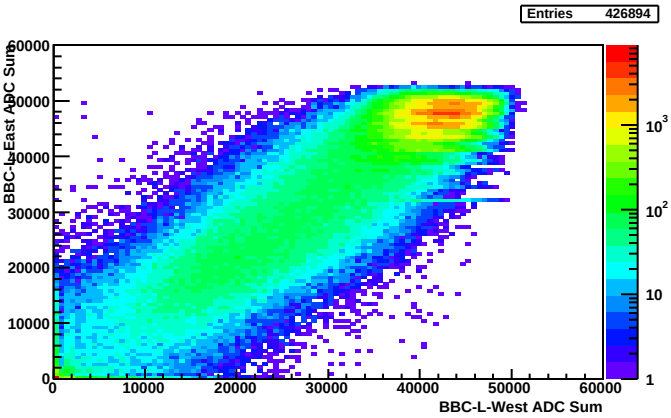
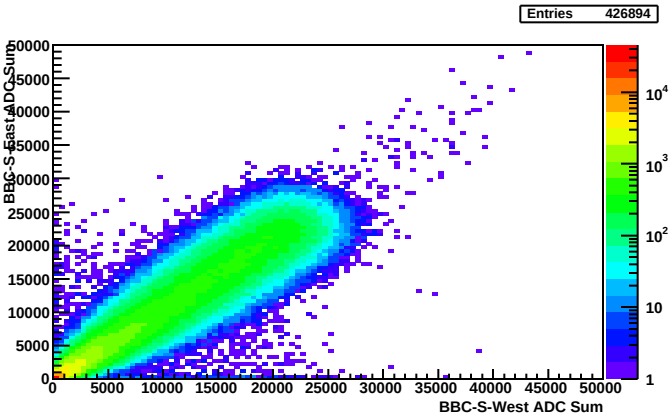
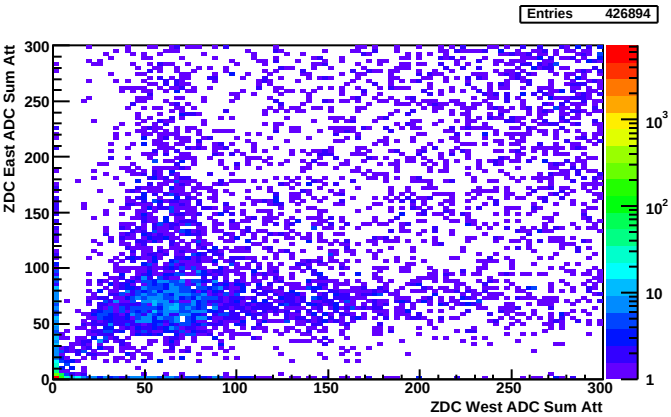
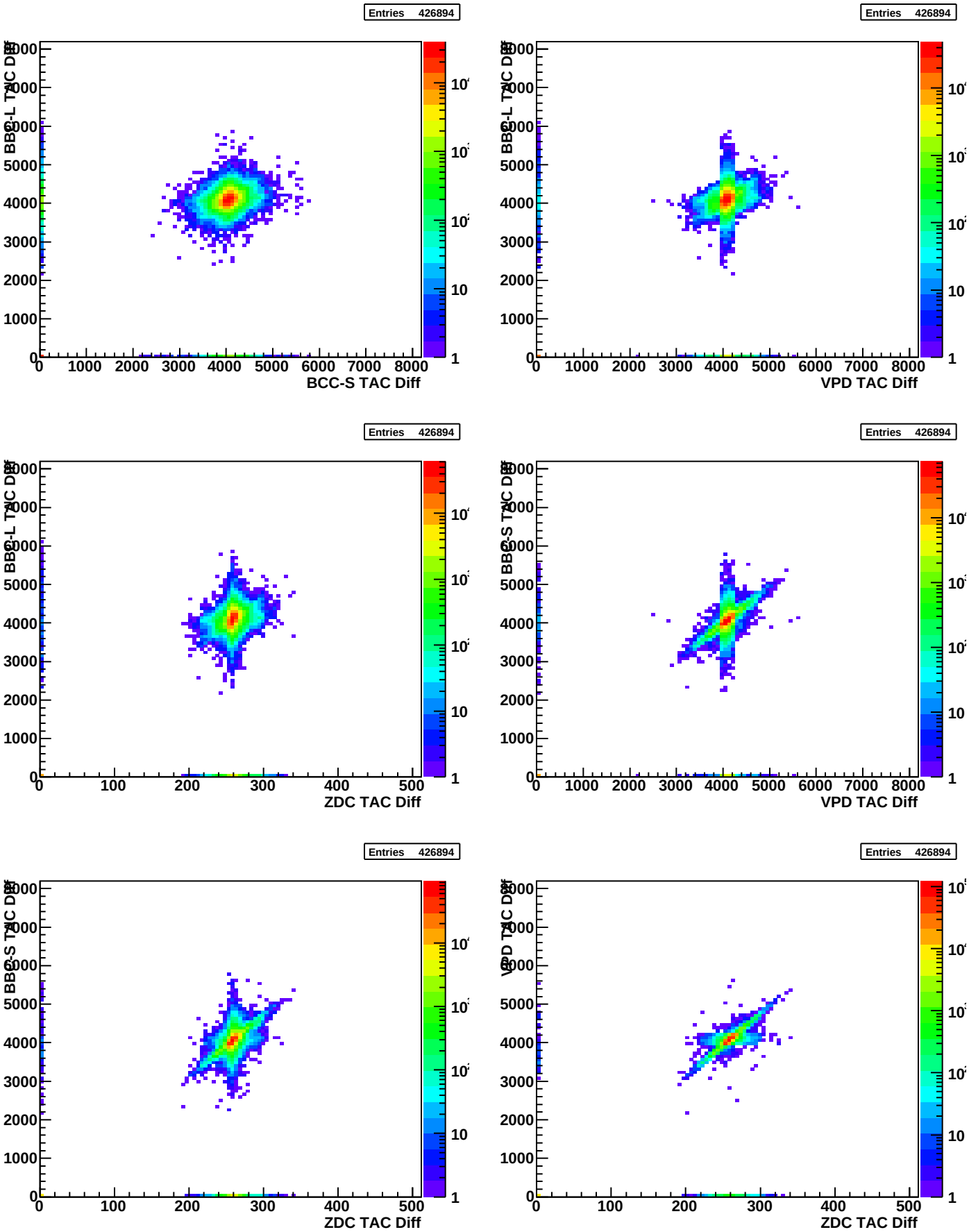
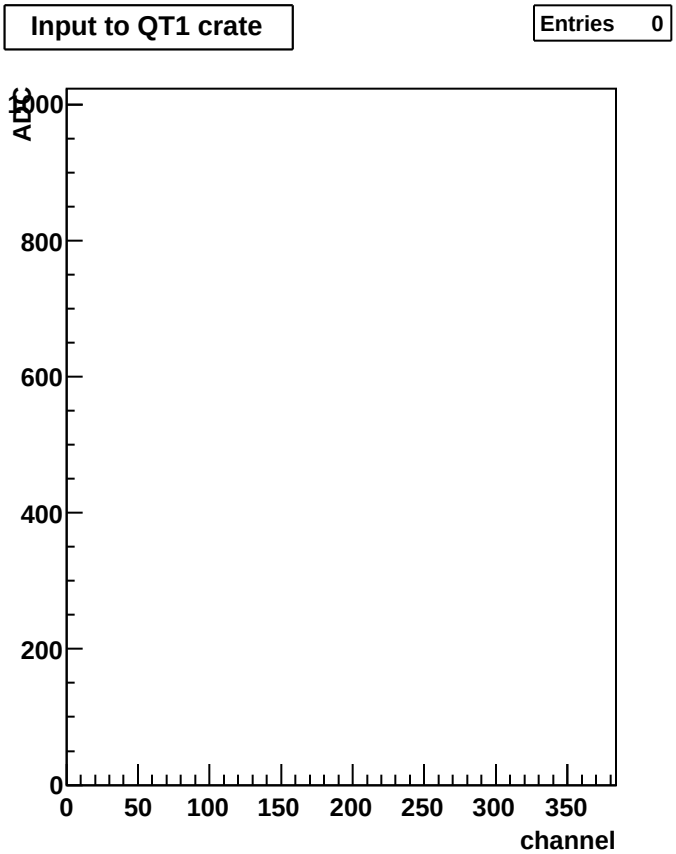
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

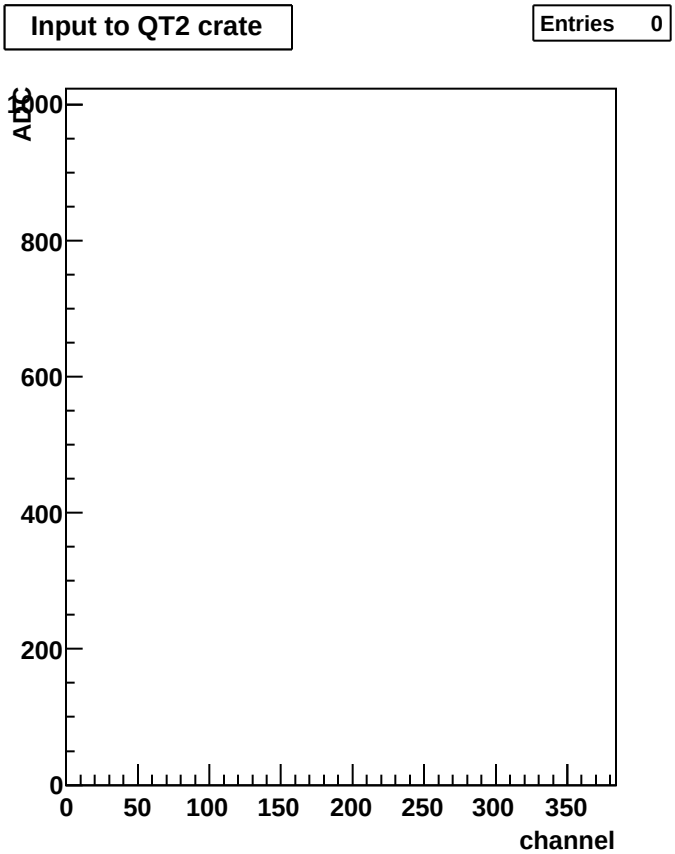

Entries 426894
BBC-L-East ADC Sum
BBC-L-West ADC Sum

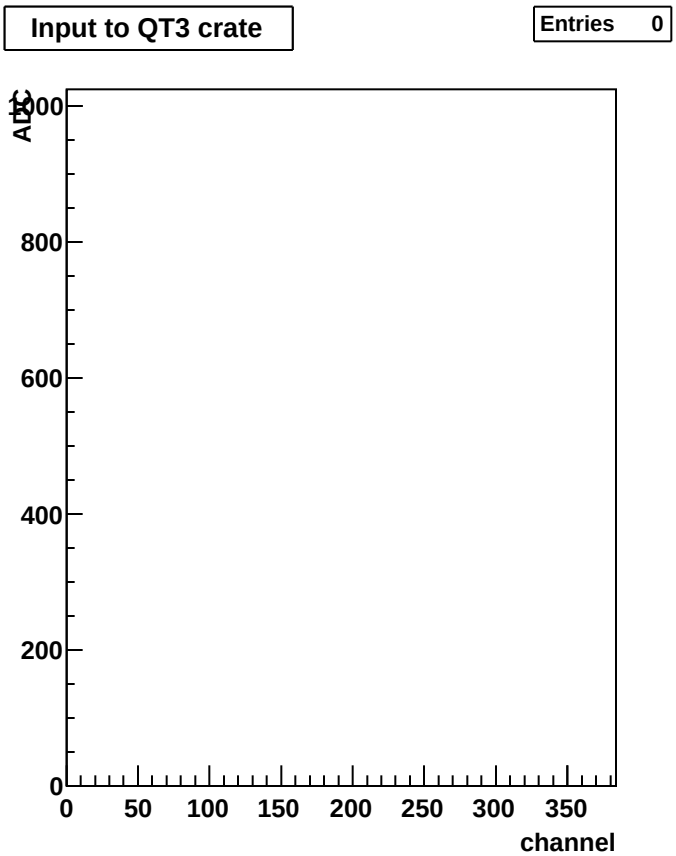

Entries 426894
BBC-S-East ADC Sum
BBC-S-West ADC Sum

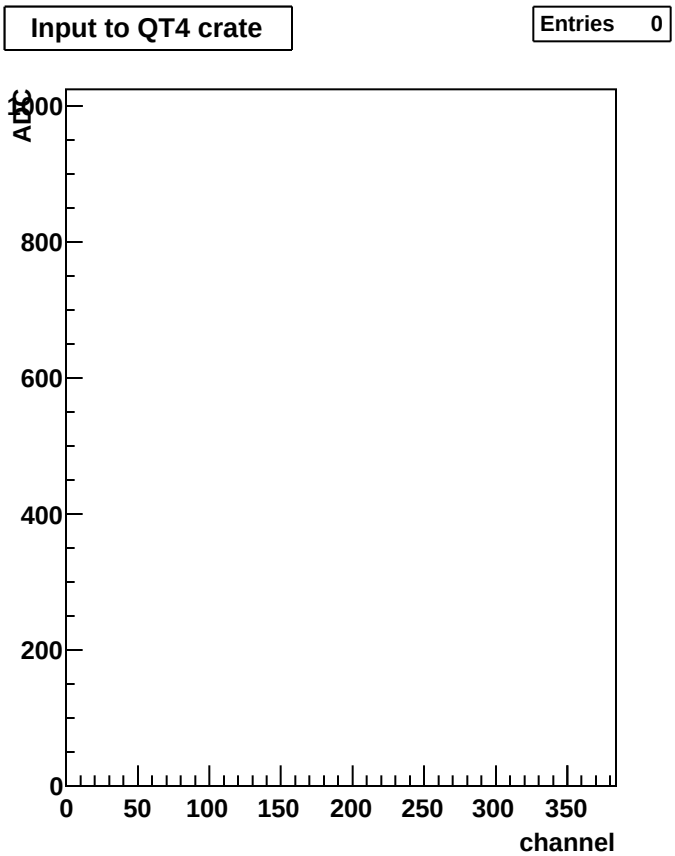

Entries 426894
ZDC East ADC Sum Att
ZDC West ADC Sum Att

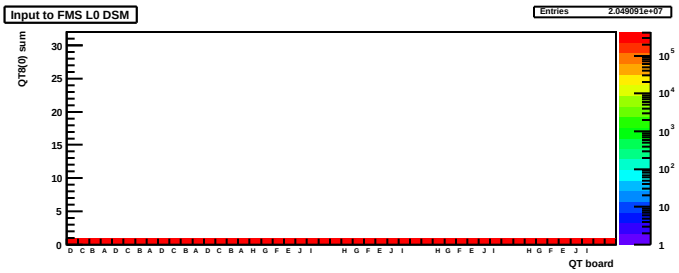

Entries 426894
BBC-L TAC Diff
BCC-S TAC Diff
Entries 426894
BBC-L TAC Diff
VPD TAC Diff
Entries 426894
BBC-L TAC Diff
ZDC TAC Diff
Entries 426894
BBC-S TAC Diff
VPD TAC Diff
Entries 426894
BBC-S TAC Diff
ZDC TAC Diff
Entries 426894
VPD TAC Diff
ZDC TAC Diff

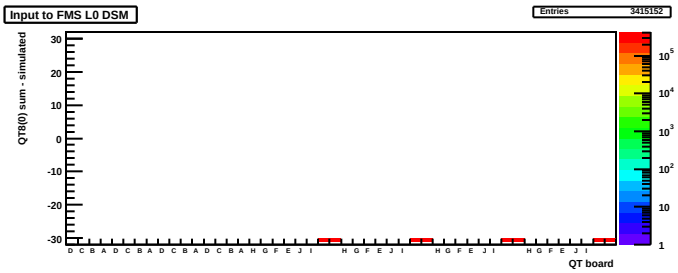

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

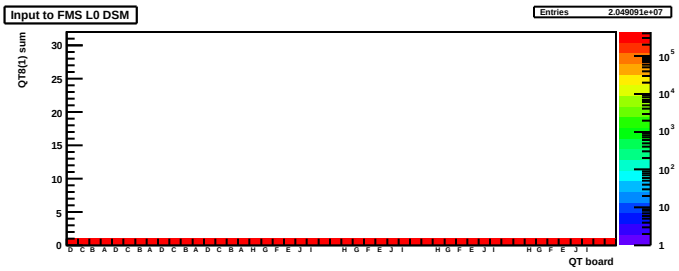

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

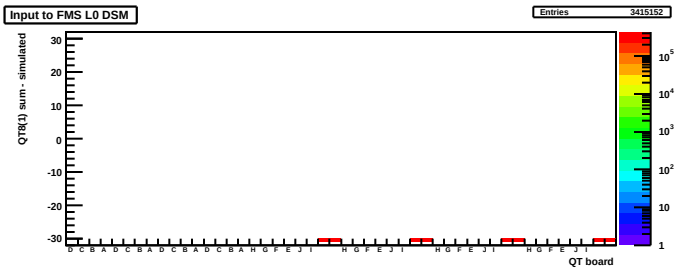

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

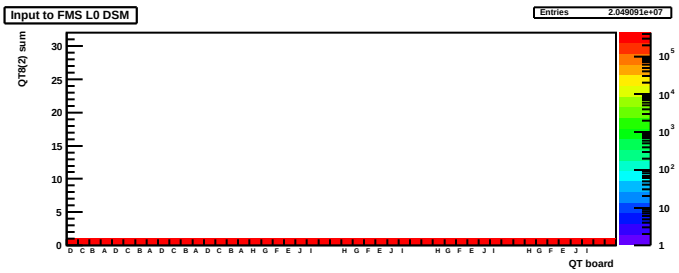

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

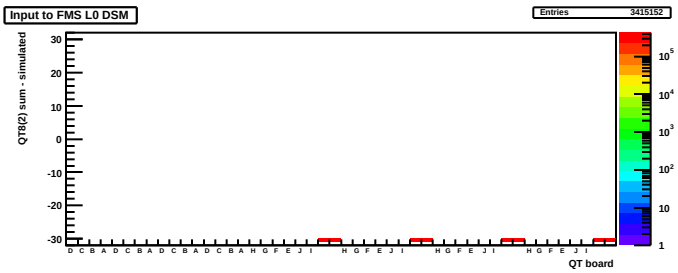

Input to FMS L0 DSM
Entries 2.049091e+07
QT8(0) sum
QT board

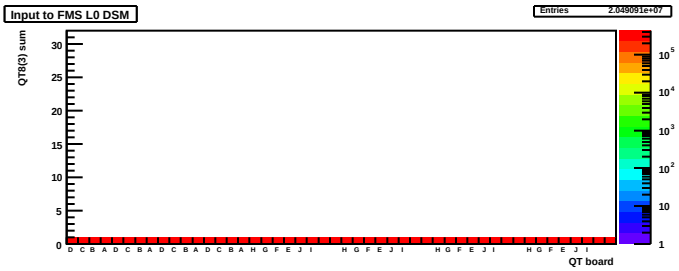

Input to FMS L0 DSM
Entries 3415152
QT8(0) sum - simulated
QT board

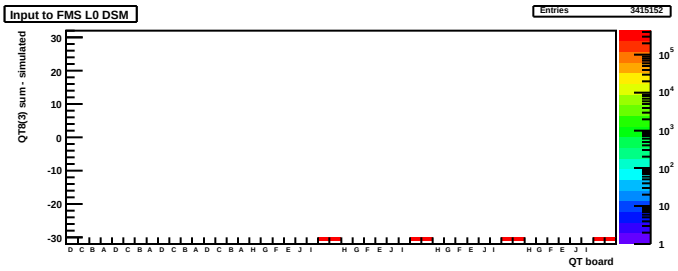

Input to FMS L0 DSM
Entries 2.049091e+07
QT8(1) sum
QT board

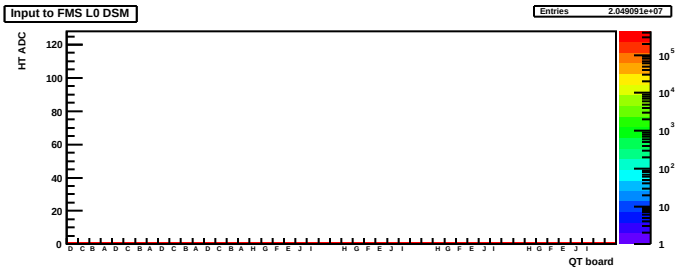

Input to FMS L0 DSM
Entries 3415152
QT8(1) sum - simulated
QT board

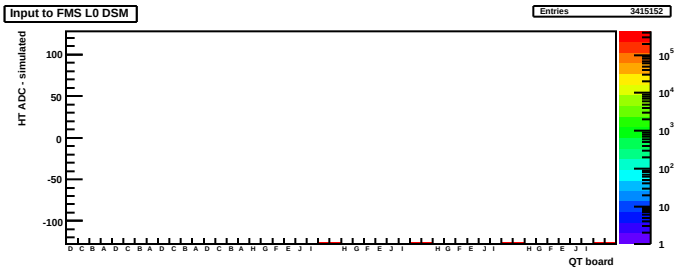

Input to FMS L0 DSM
Entries 2.049091e+07
QT8(2) sum
QT board

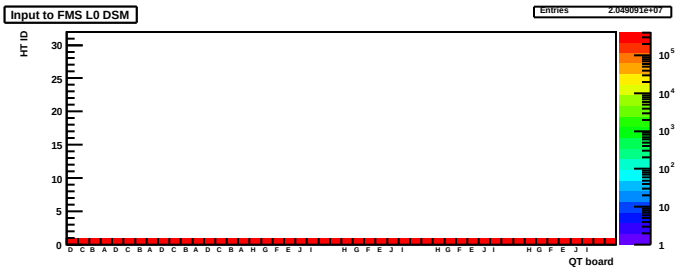

Input to FMS L0 DSM
Entries 3415152
QT8(2) sum - simulated
QT board

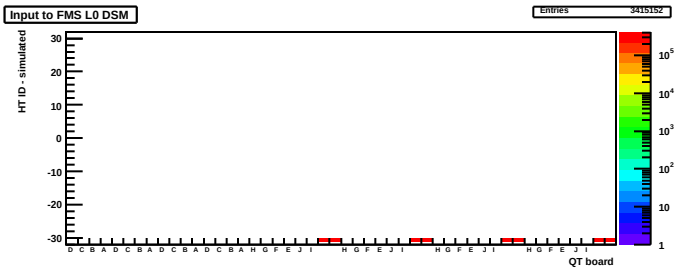

Input to FMS L0 DSM
Entries 2.049091e+07
QT8(3) sum
QT board

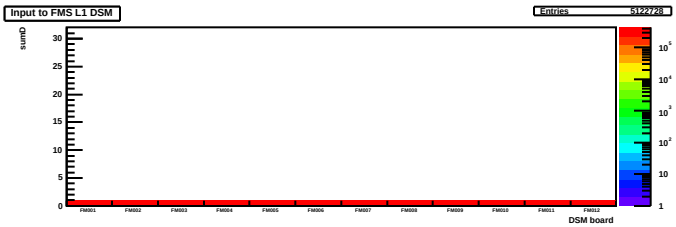

Input to FMS L0 DSM
Entries 3415152
QT8(3) sum - simulated
QT board

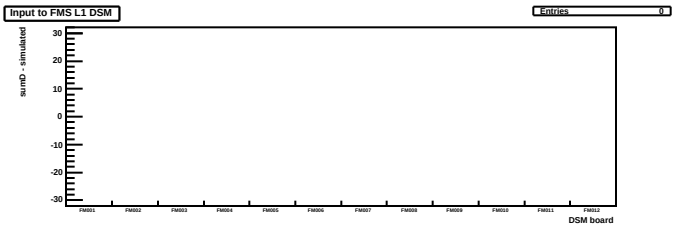

Input to FMS L0 DSM
Entries 2.049091e+07
HT ADC
QT board

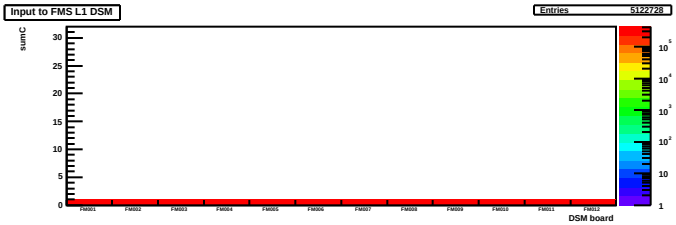

Input to FMS L0 DSM
Entries 3415152
HT ADC - simulated
QT board

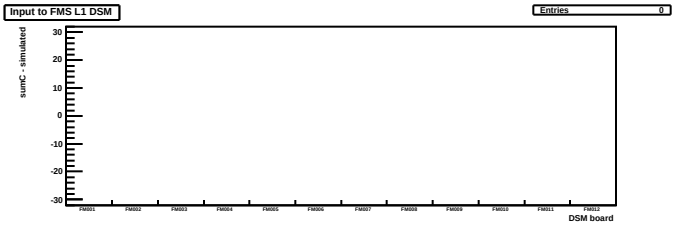

Input to FMS L0 DSM
Entries 2.049091e+07
HT ID
QT board

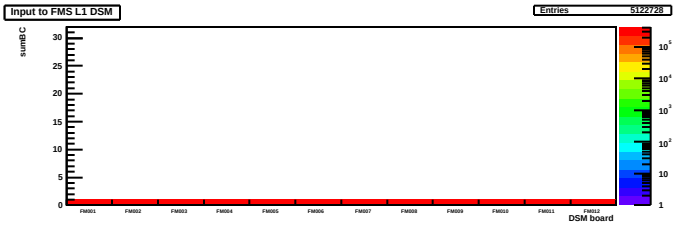

Input to FMS L0 DSM
Entries 3415152
HT ID - simulated
QT board

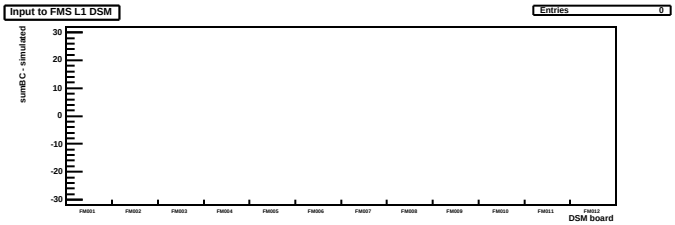

Input to FMS L1 DSM
Entries 5122728
sumD
DSM board

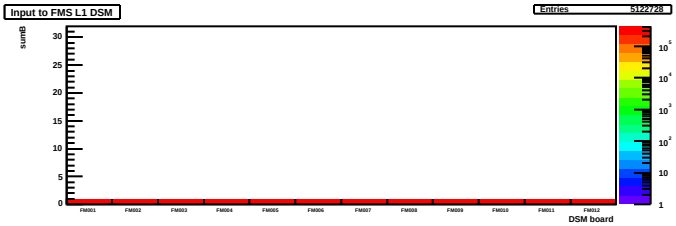

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

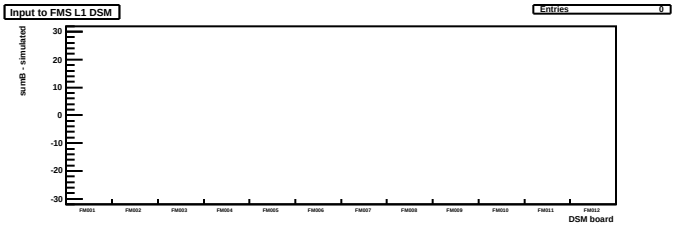

Input to FMS L1 DSM
Entries 5122728
sumC
DSM board

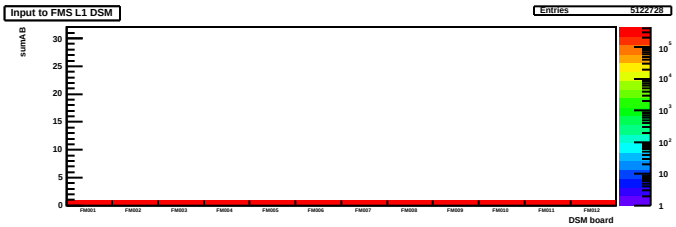

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

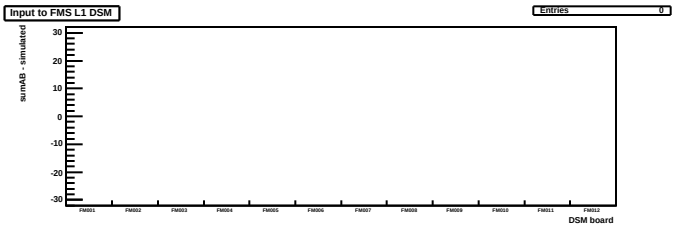

Input to FMS L1 DSM
Entries 5122728
sumBC
DSM board

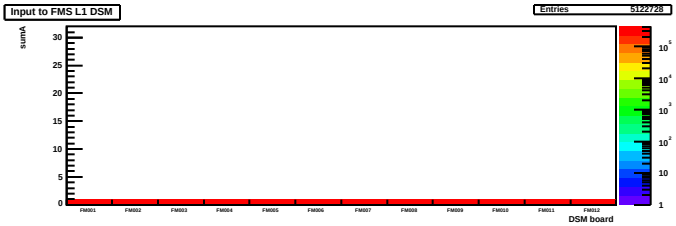

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

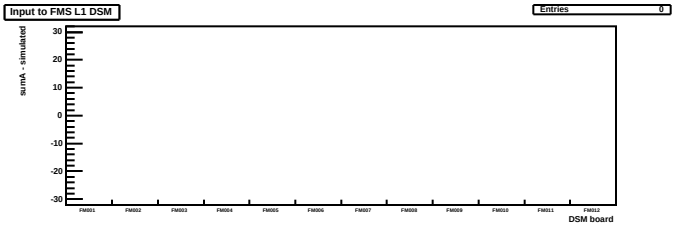

Input to FMS L1 DSM
Entries 5122728
sumB
DSM board

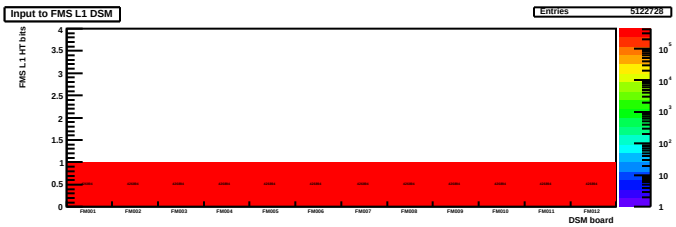

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

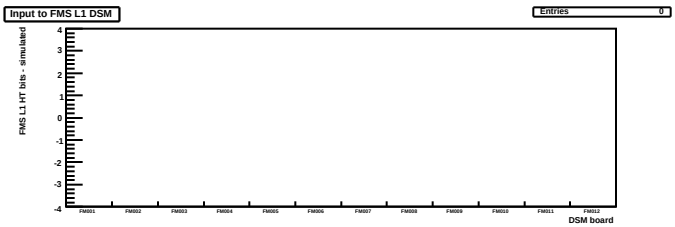

Input to FMS L1 DSM
Entries 5122728
sumAB
DSM board

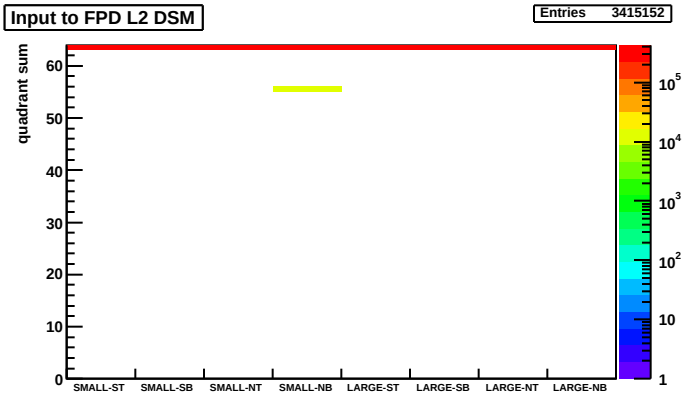

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

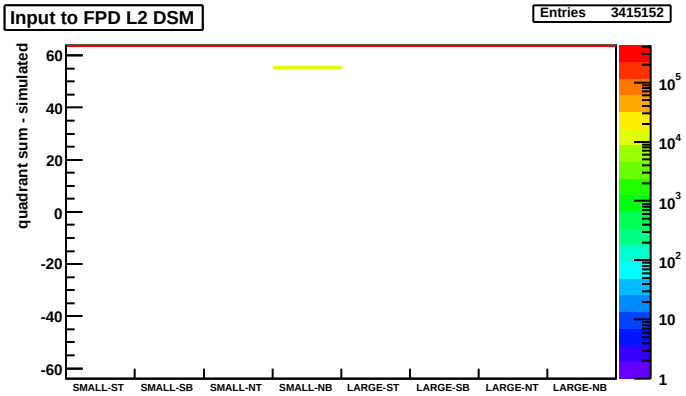

Input to FMS L1 DSM
Entries 5122728
sumA
DSM board

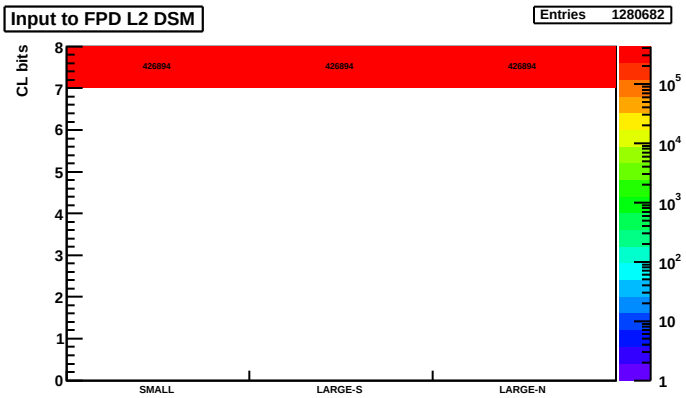

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

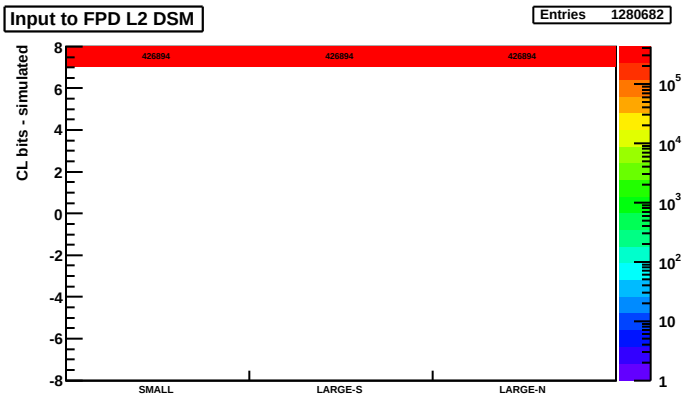

Input to FMS L1 DSM
Entries 5122728
FMS L1 HT bits
DSM board

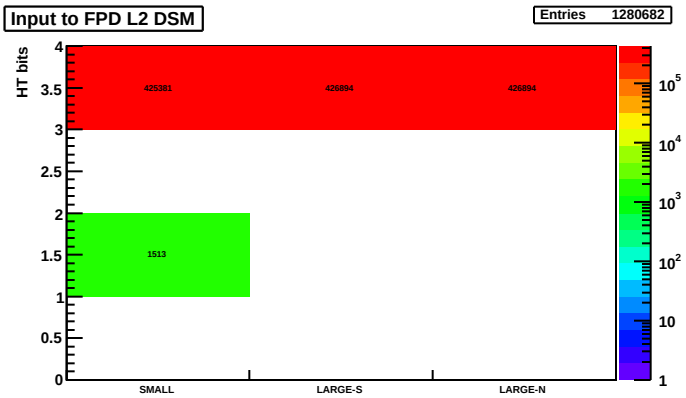

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

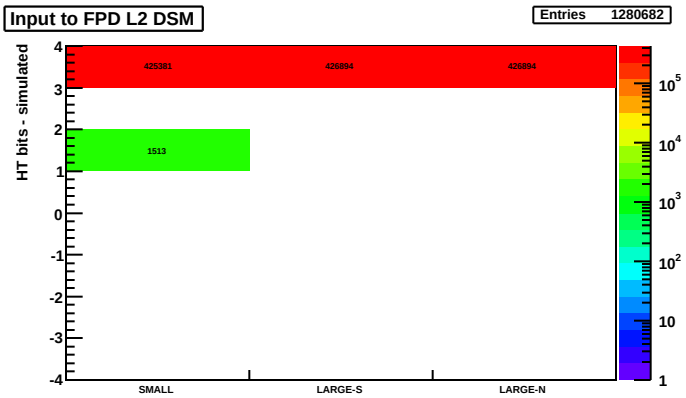

Input to FPD L2 DSM
Entries 3415152
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

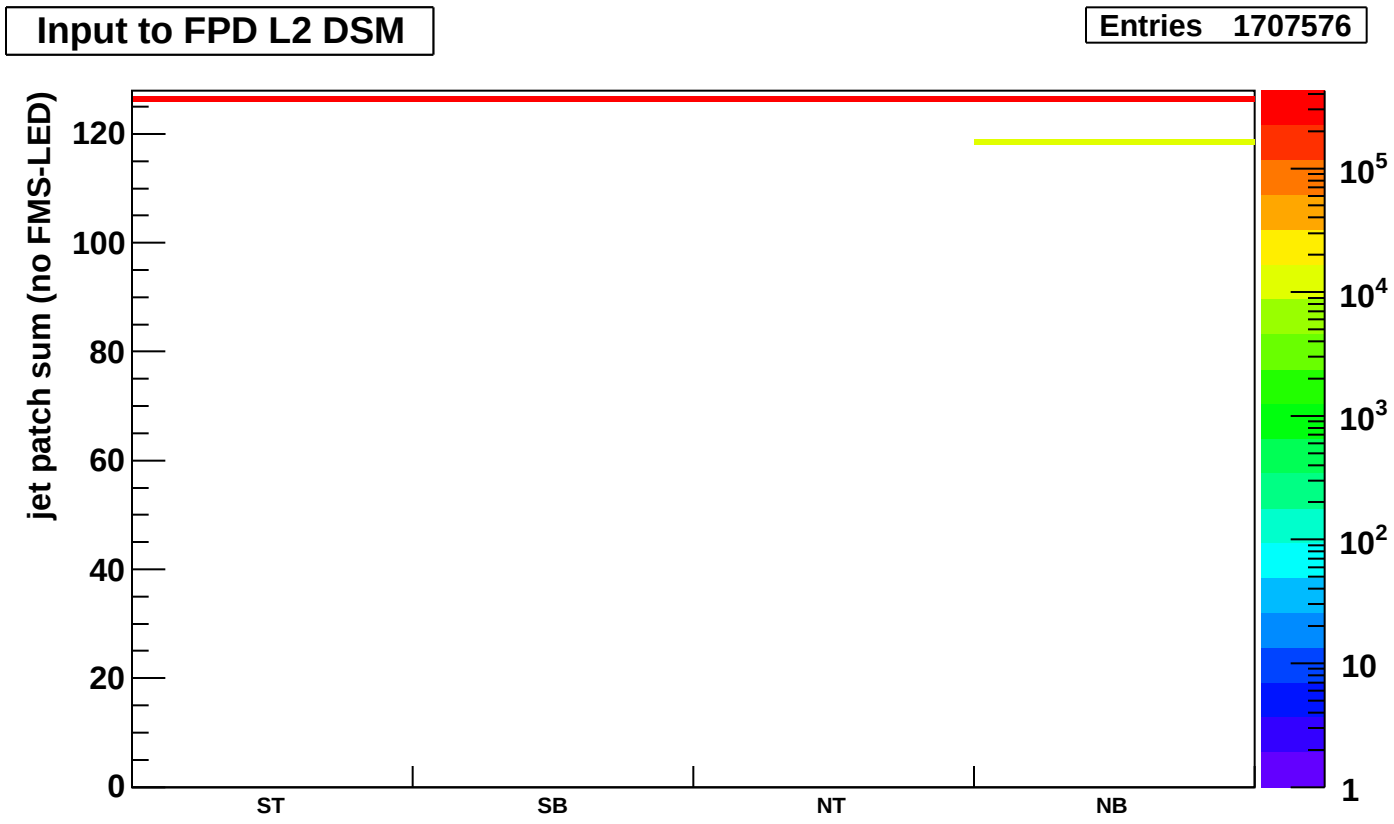

Input to FPD L2 DSM
Entries 3415152
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

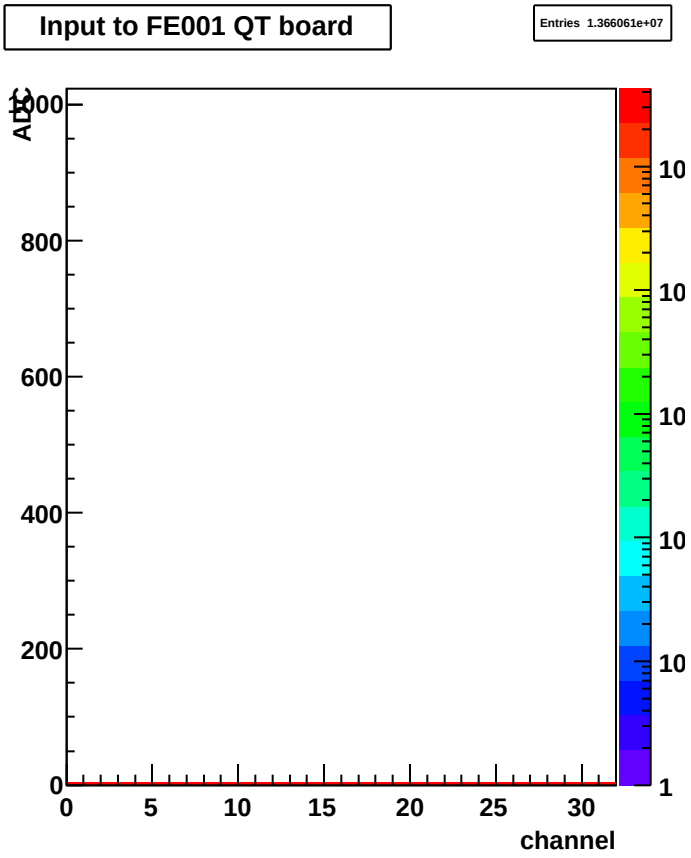

Input to FPD L2 DSM
Entries 1280682
CL bits
426894
426894
426894
SMALL
LARGE-S
LARGE-N

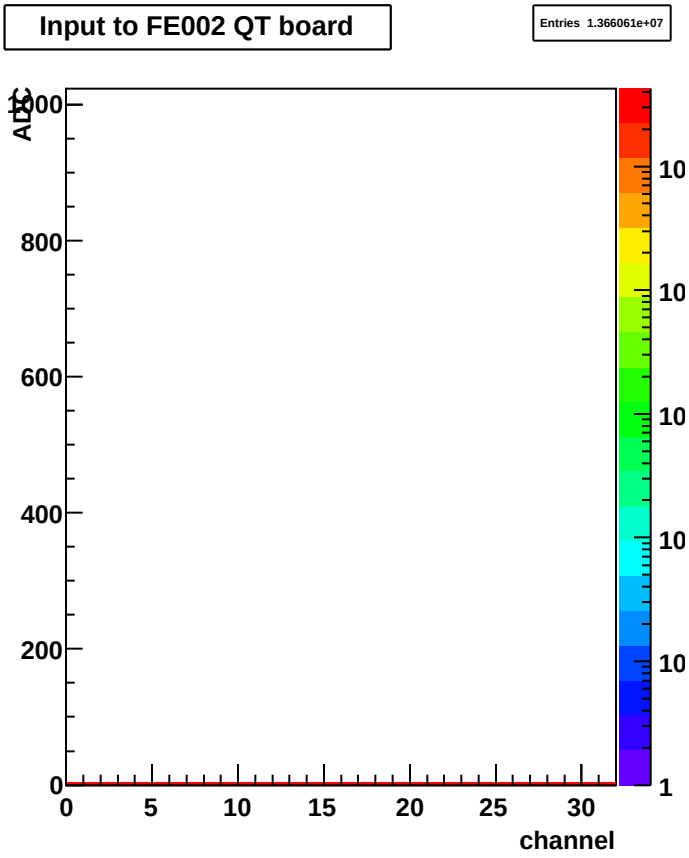

Input to FPD L2 DSM
Entries 1280682
CL bits - simulated
426894
426894
426894
SMALL
LARGE-S
LARGE-N

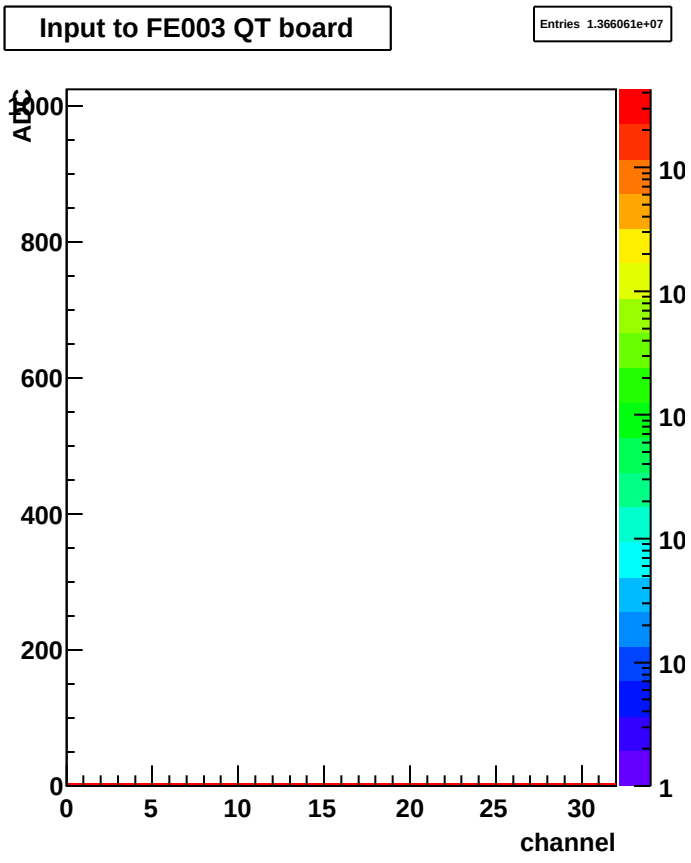

Input to FPD L2 DSM
Entries 1280682
HT bits
425381
426894
426894
1513
SMALL
LARGE-S
LARGE-N

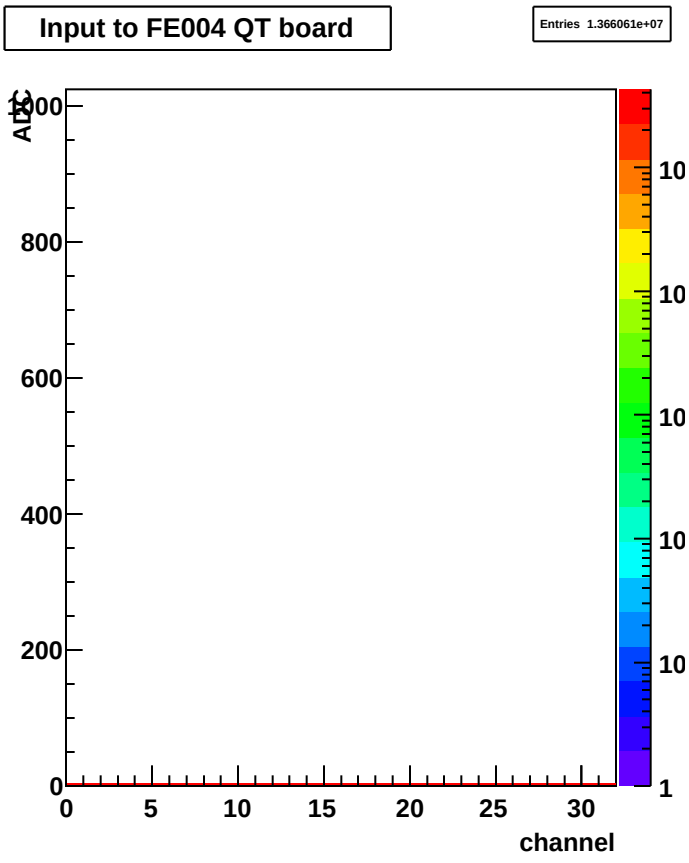

Input to FPD L2 DSM
Entries 1280682
HT bits - simulated
425381
426894
426894
1513
SMALL
LARGE-S
LARGE-N

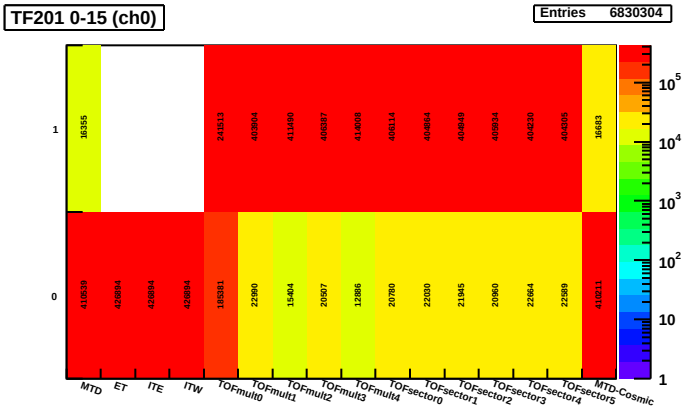

Input to FPD L2 DSM
Entries 1707576
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4
10^5

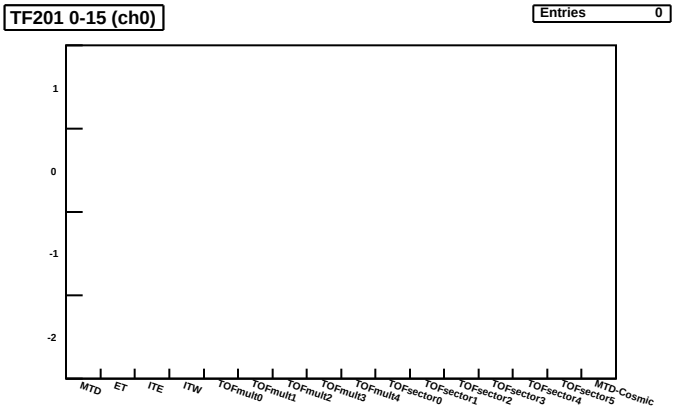

Input to FE001 QT board
Entries 1.366061e+07
ADC
channel

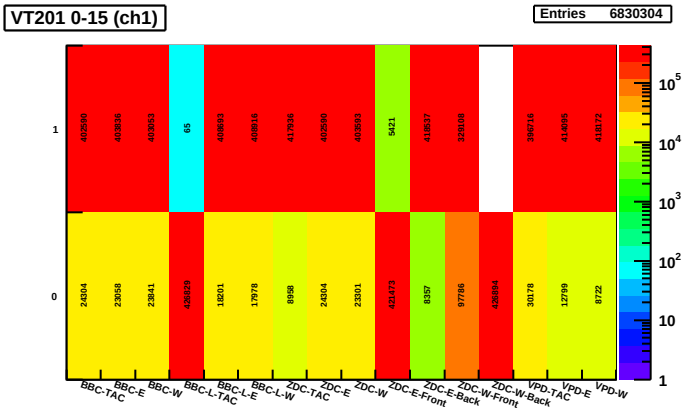

Input to FE002 QT board
Entries 1.366061e+07
ADC
channel

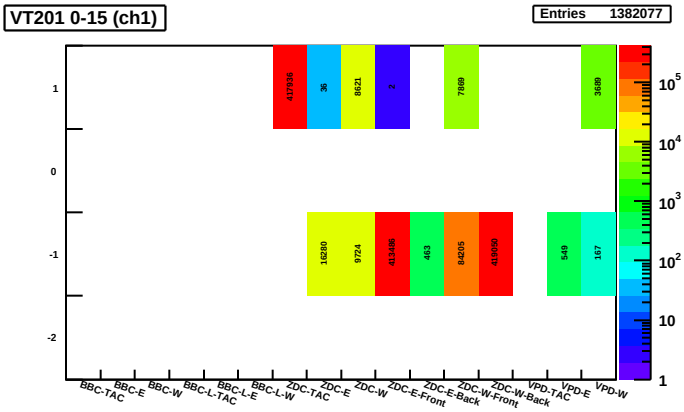

Input to FE003 QT board
Entries 1.366061e+07
ADC
channel

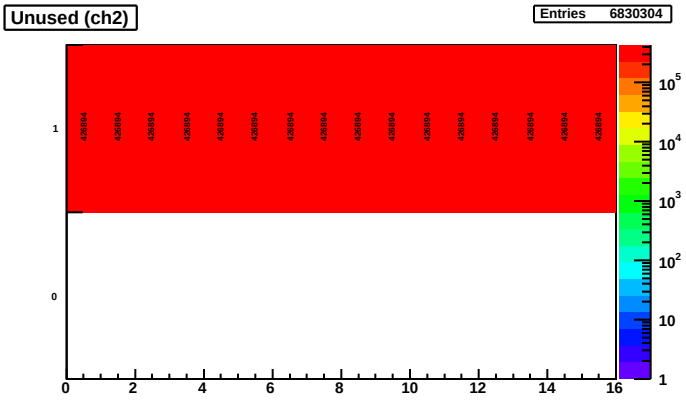

Input to FE004 QT board
Entries 1.366061e+07
ADC
channel

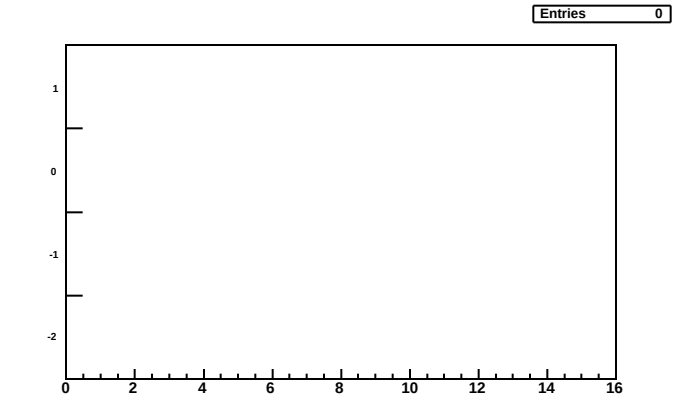

TF201 0-15 (ch0)
Entries 6830304
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

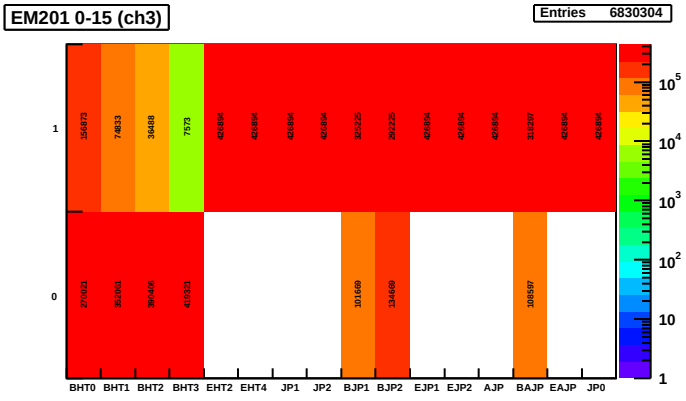

TF201 0-15 (ch0)
Entries 0
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

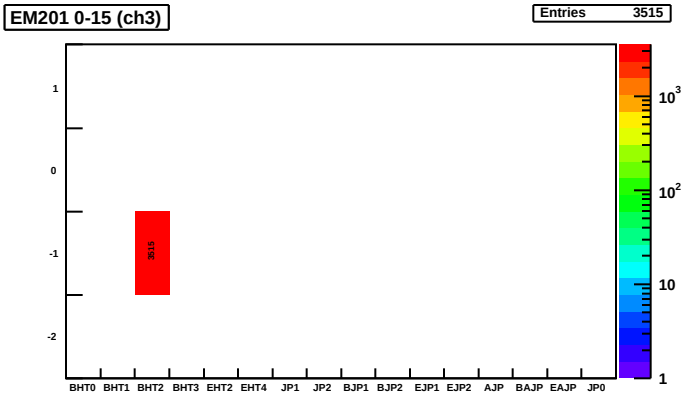

VT201 0-15 (ch1)
Entries 6830304
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

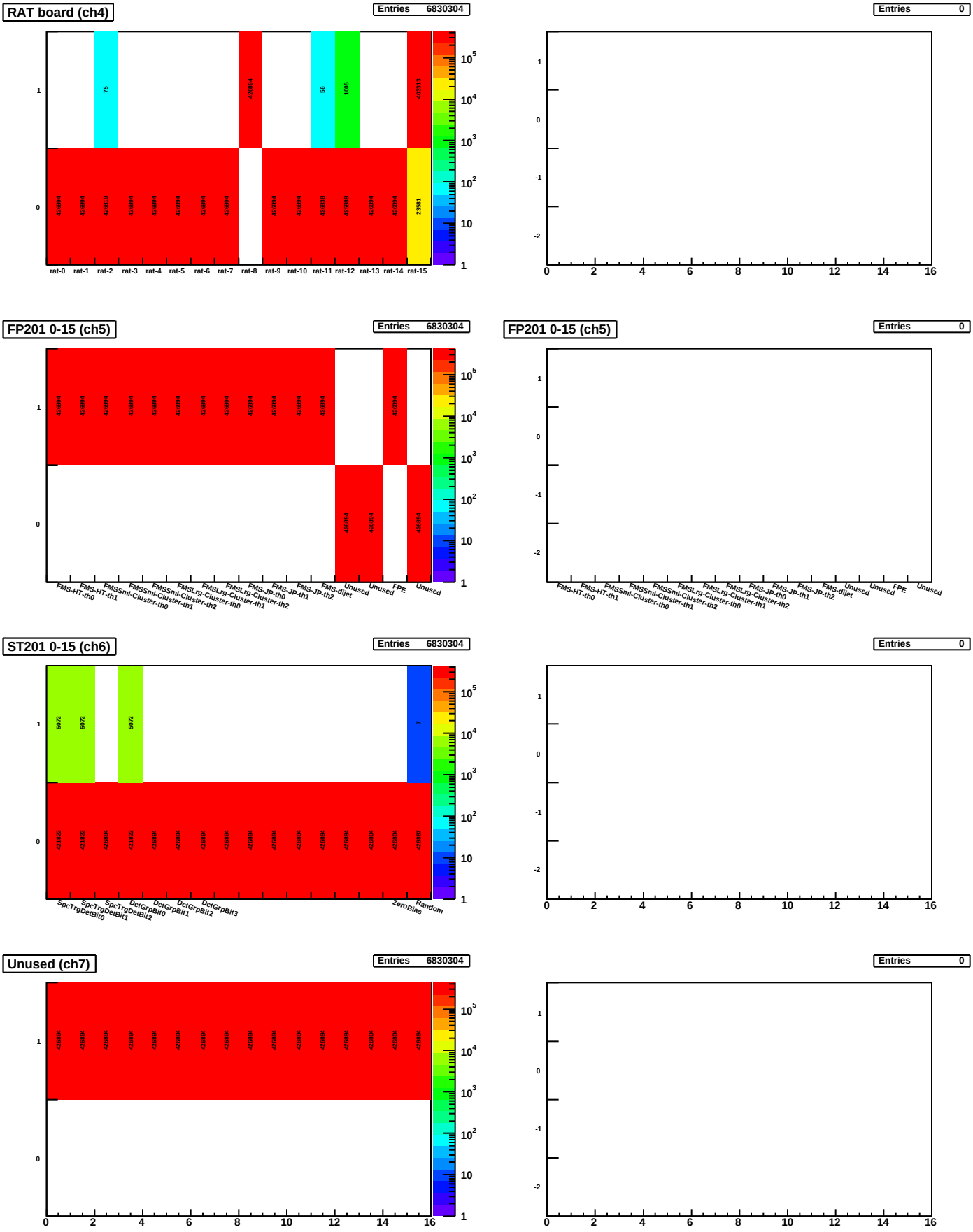

VT201 0-15 (ch1)
Entries 1382077
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 6830304


Entries 0


EM201 0-15 (ch3)
Entries 6830304
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0


EM201 0-15 (ch3)
Entries 3515
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0


RAT board (ch4)
Entries 6830304
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
Entries 0
FP201 0-15 (ch5)
Entries 6830304
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
Entries 0
FP201 0-15 (ch5)
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 6830304
SpcTrgDetBit0 SpcTrgDetBit1 SpcTrgDetBit2 DetGrpBit0 DetGrpBit1 DetGrpBit2 DetGrpBit3 ZeroBias Random
Entries 0
Unused (ch7)
Entries 6830304
Entries 0