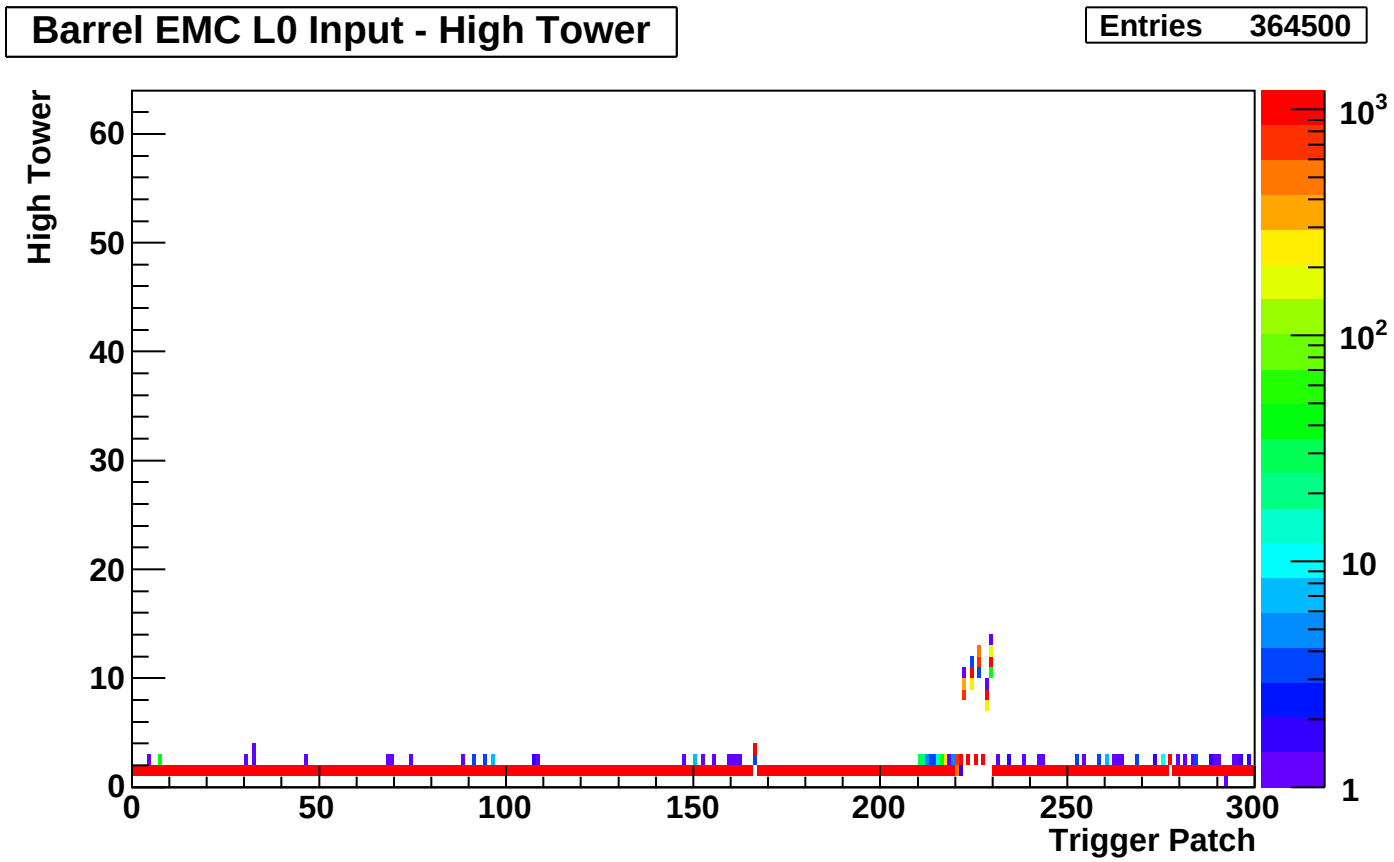
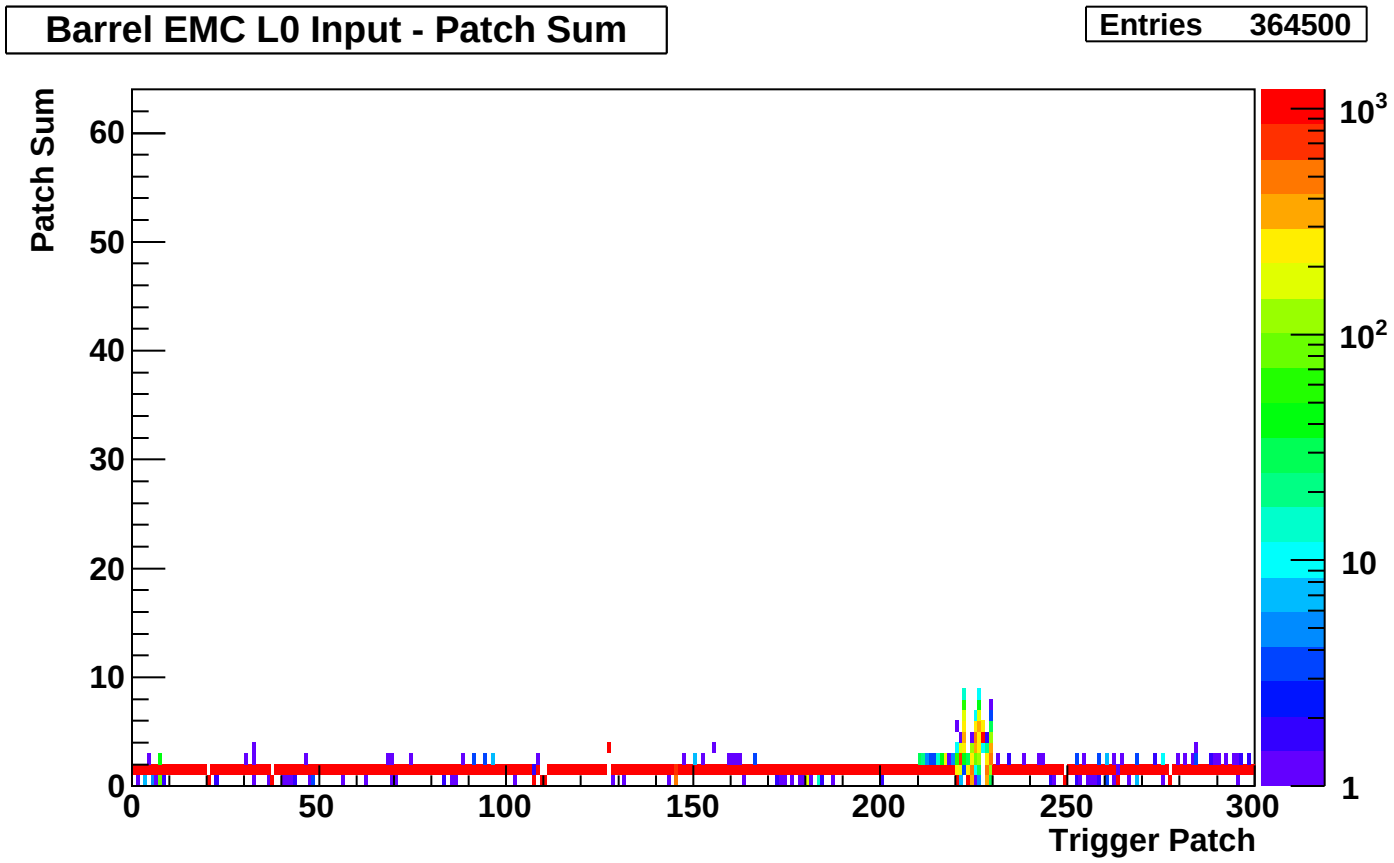
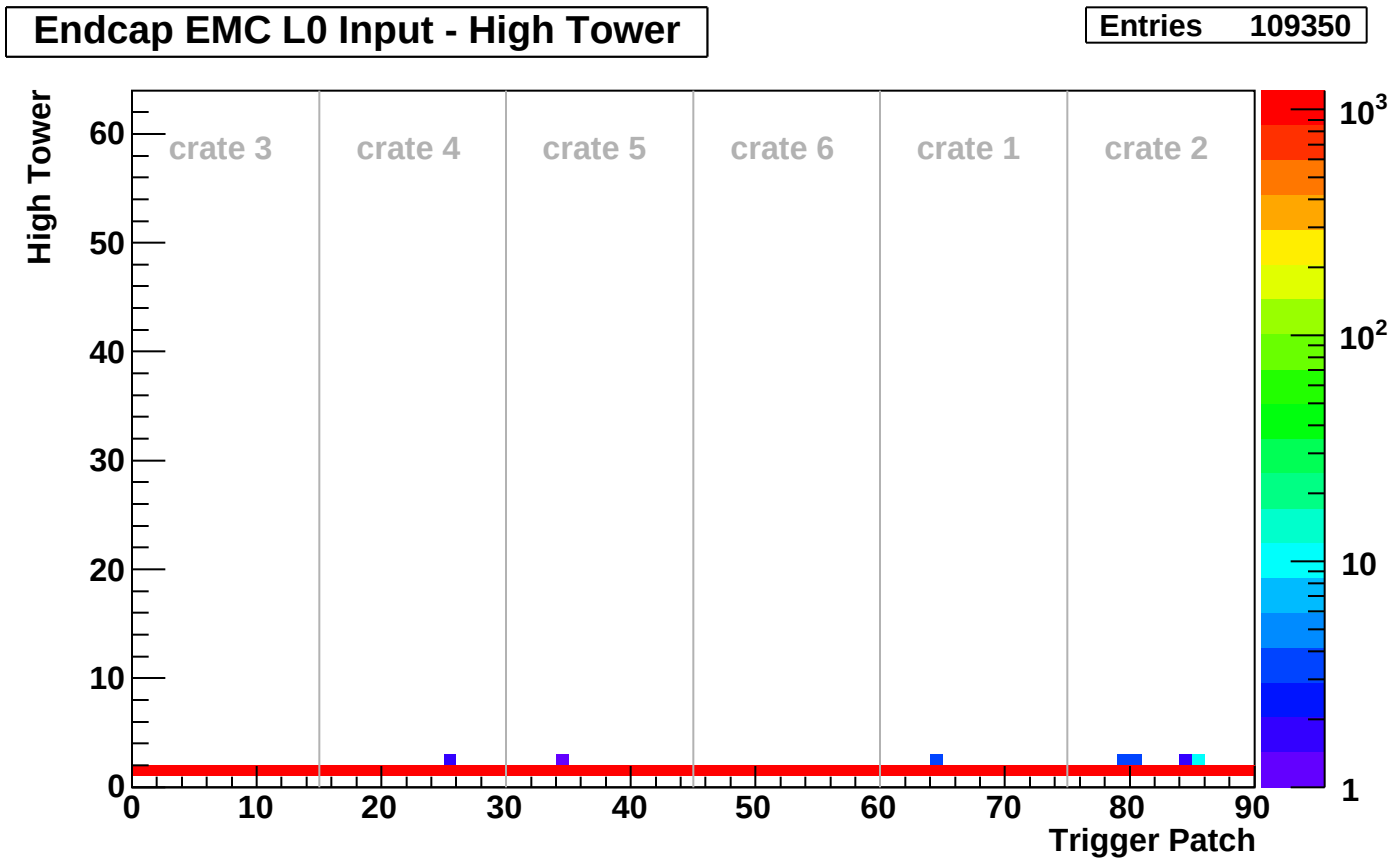
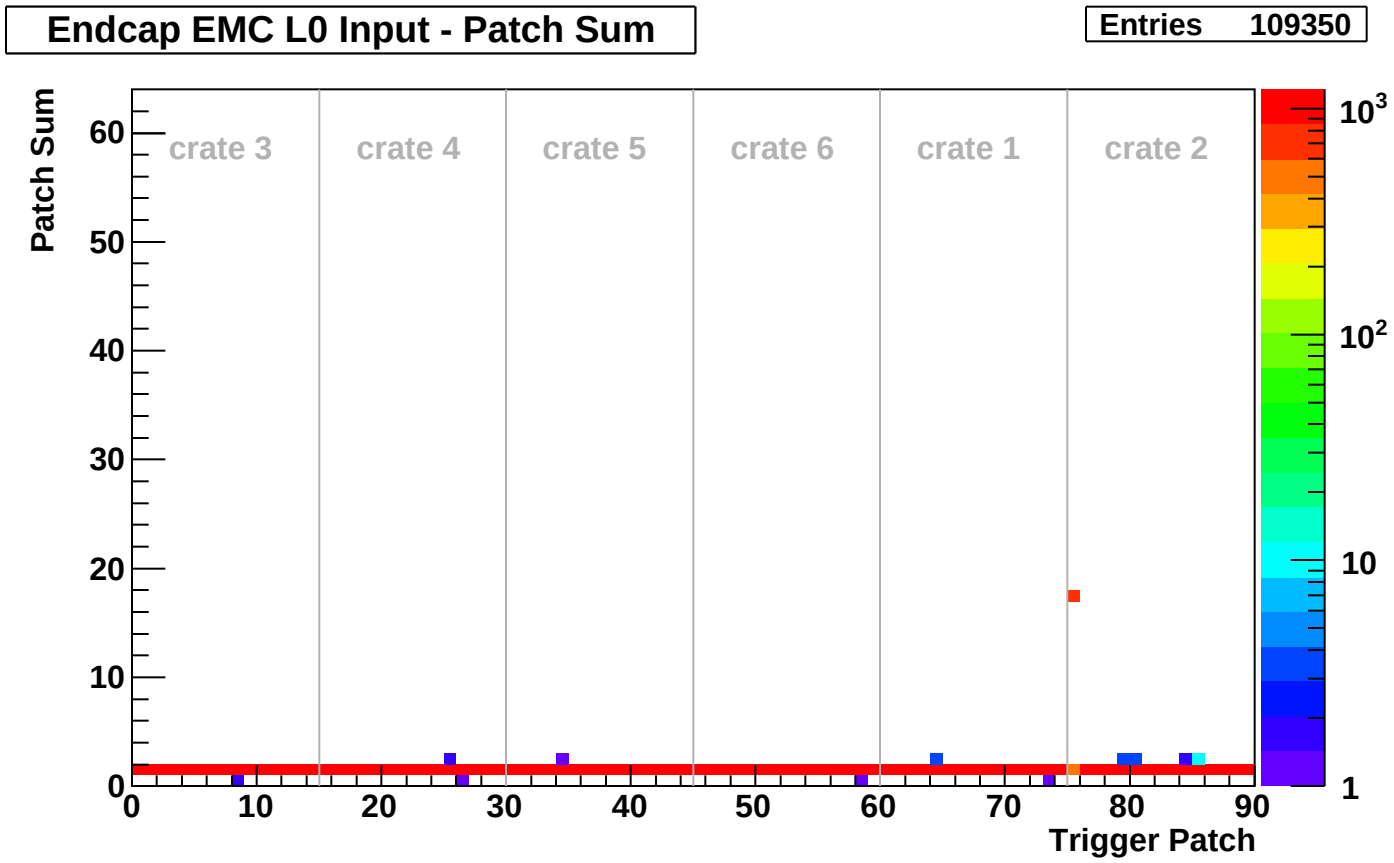
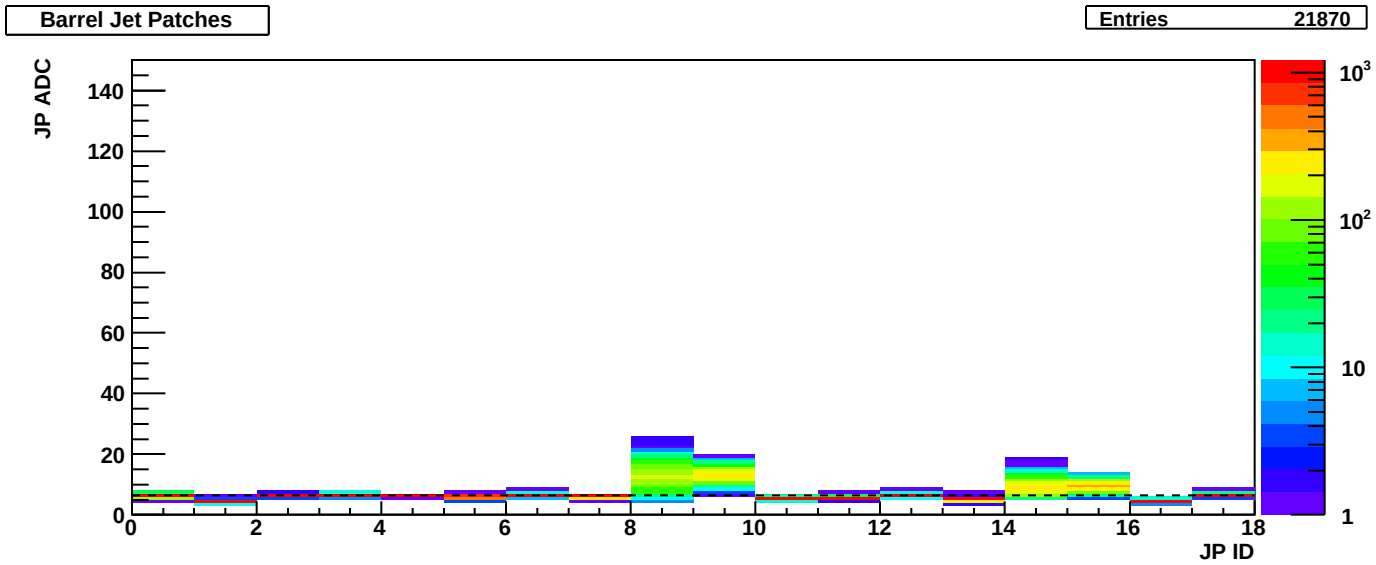
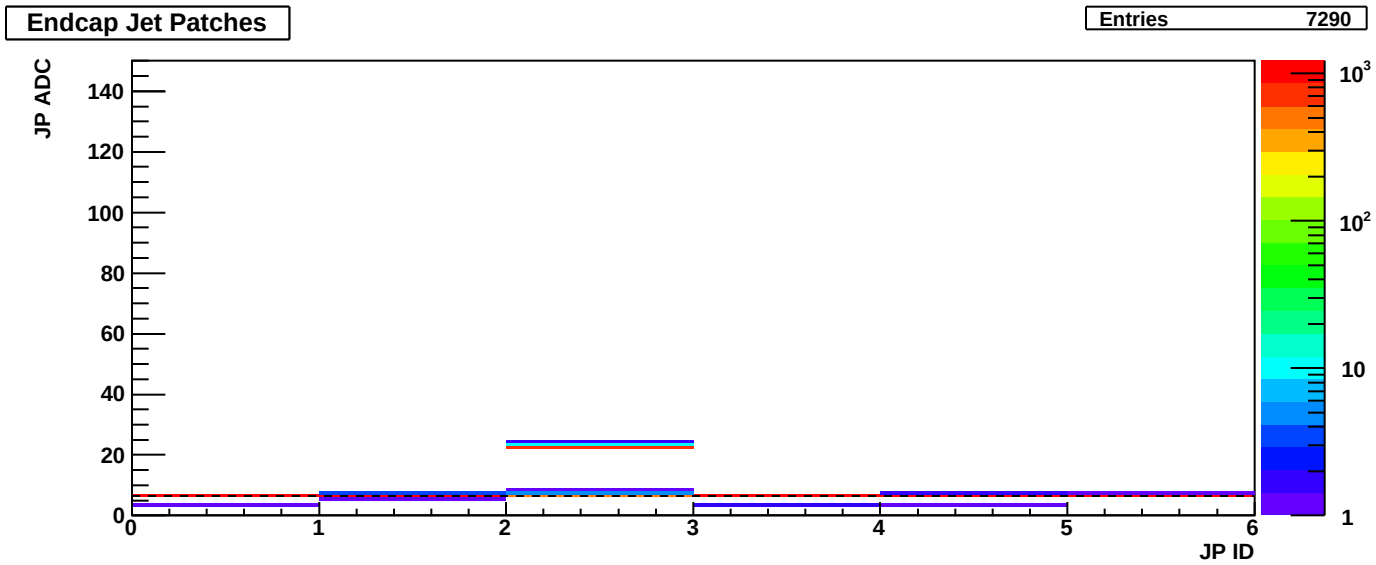

Barrel EMC L0 Input - High Tower
Entries 364500
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3

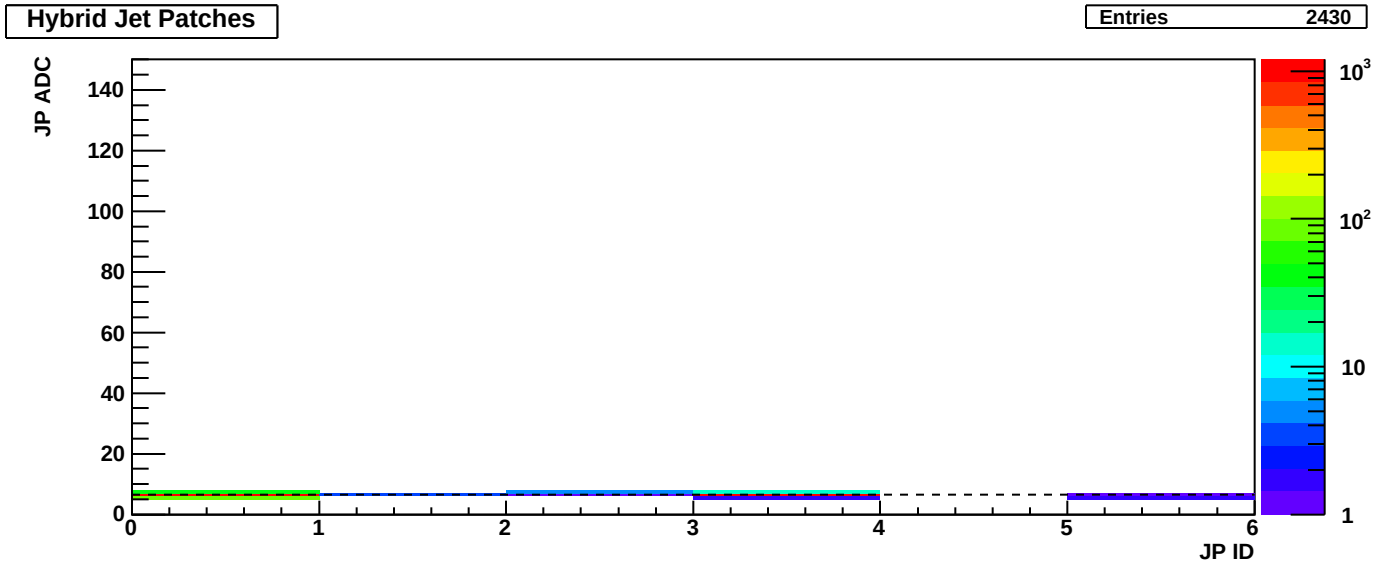

Barrel EMC L0 Input - Patch Sum
Entries 364500
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3

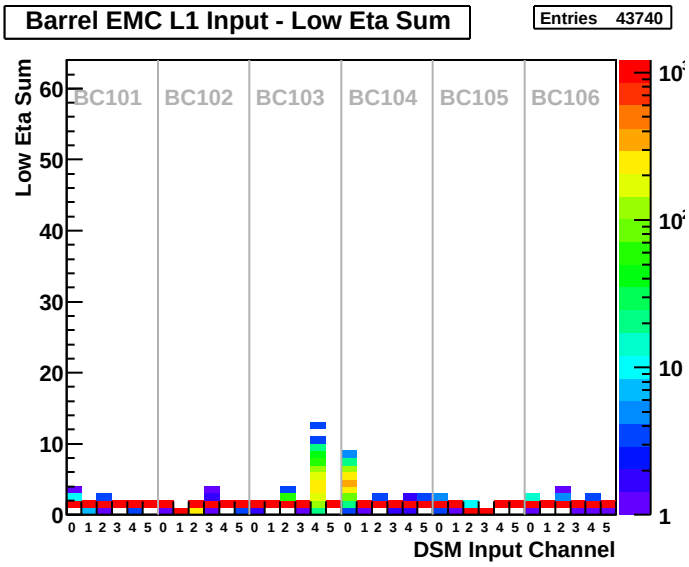

Endcap EMC L0 Input - High Tower
Entries 109350
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

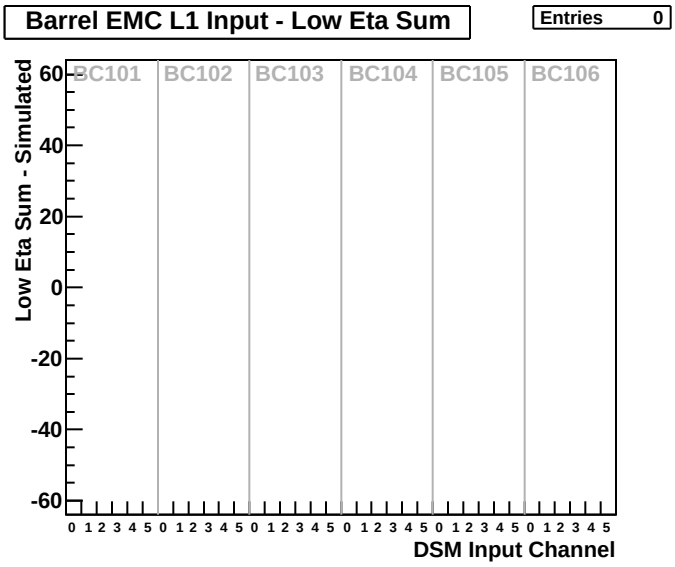

Endcap EMC L0 Input - Patch Sum
Entries 109350
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

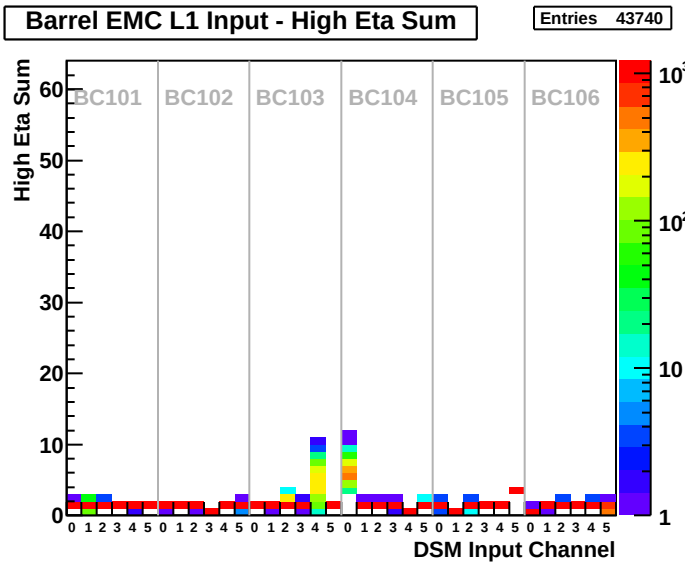

Barrel Jet Patches
Entries 21870
JP ADC
JP ID

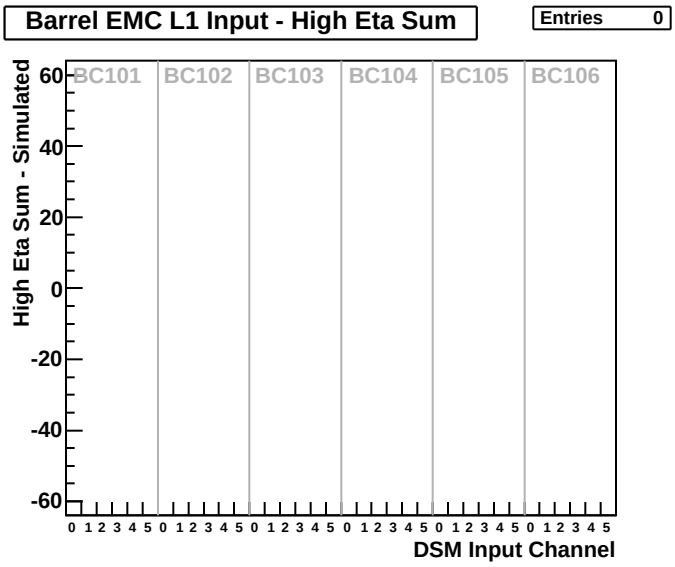

Endcap Jet Patches
Entries 7290
JP ADC
JP ID

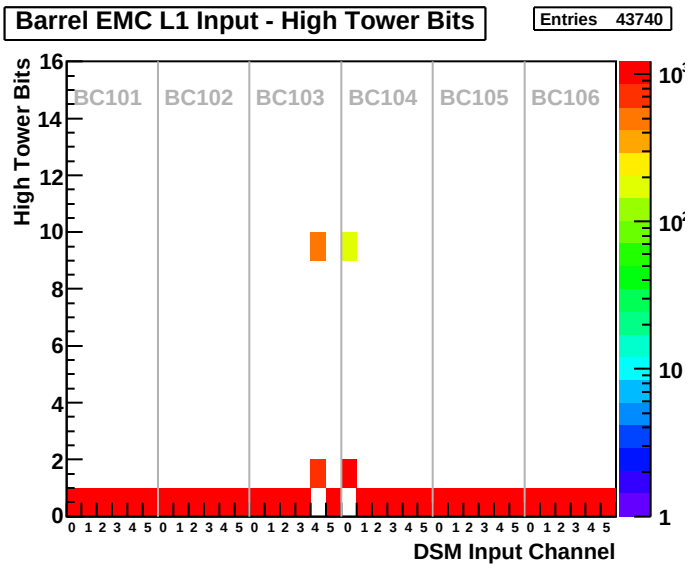

Hybrid Jet Patches
Entries 2430
JP ADC
JP ID

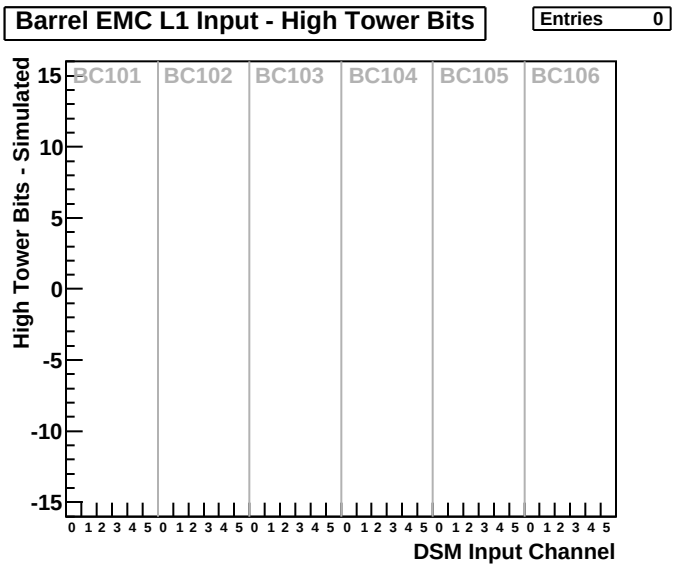

Barrel EMC L1 Input - Low Eta Sum
Entries 43740
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

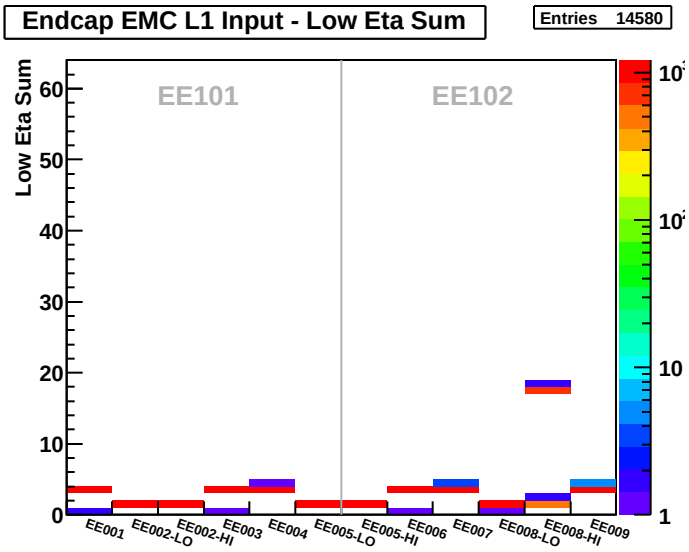

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

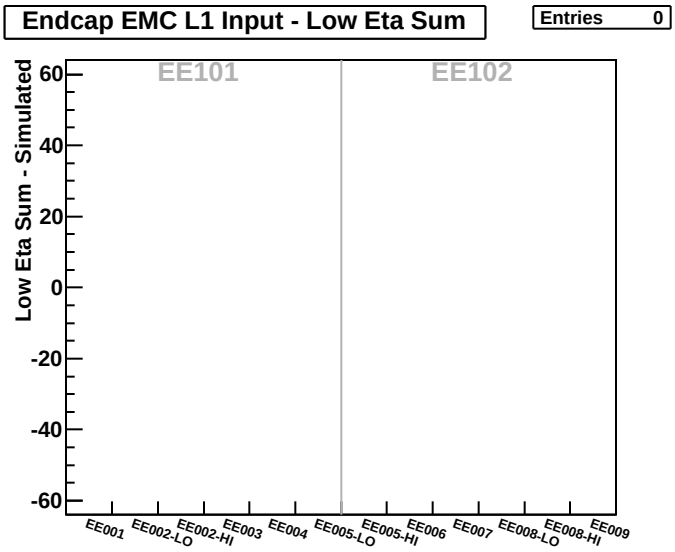

Barrel EMC L1 Input - High Eta Sum
Entries 43740
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

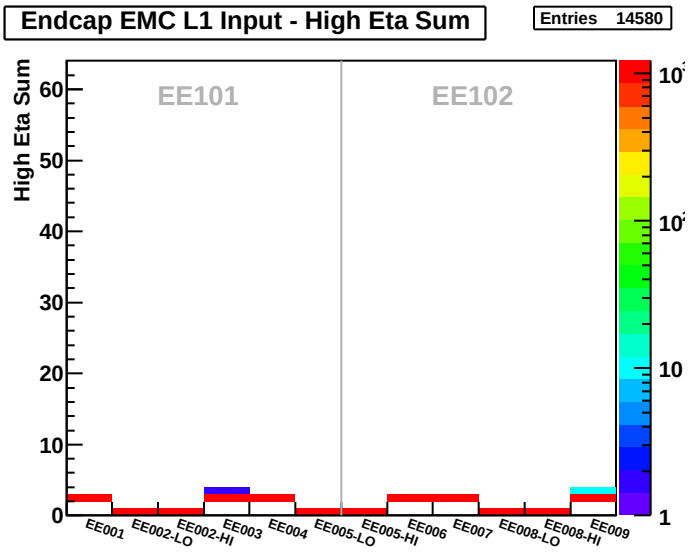

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

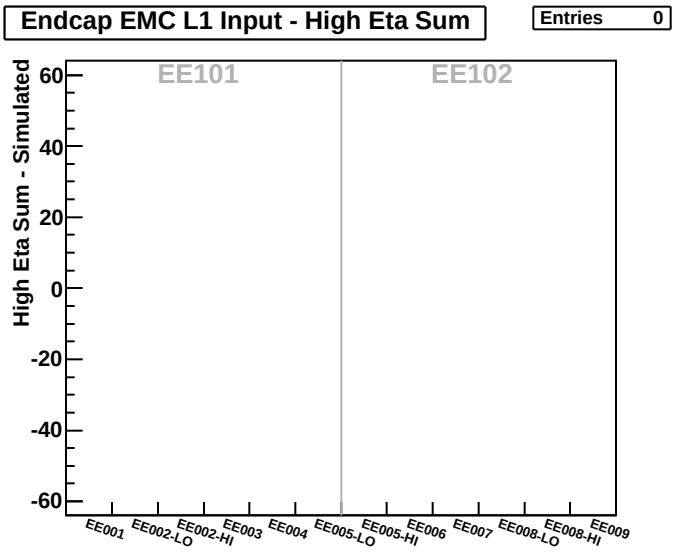

Barrel EMC L1 Input - High Tower Bits
Entries 43740
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

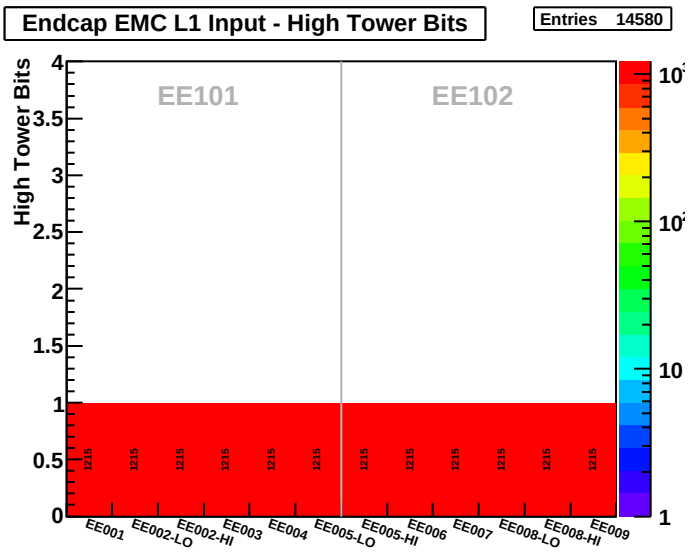

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

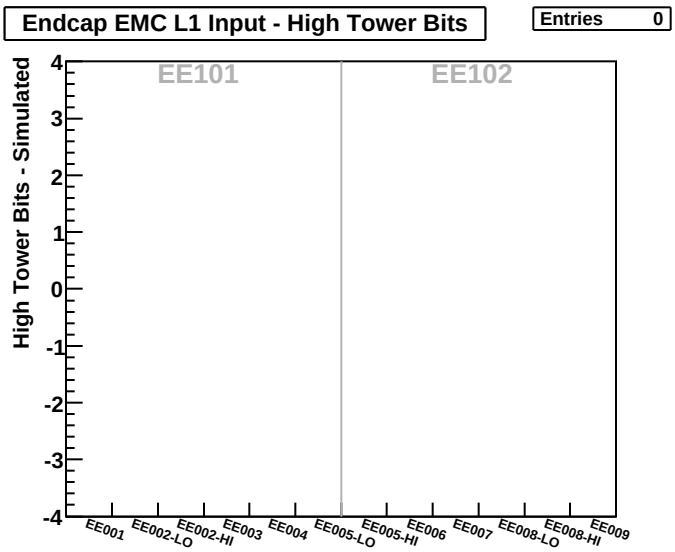

Endcap EMC L1 Input - Low Eta Sum
Entries 14580
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

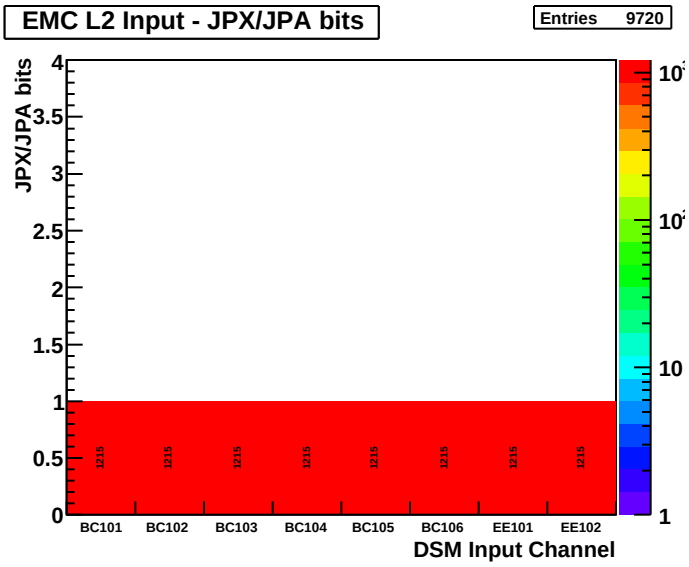

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

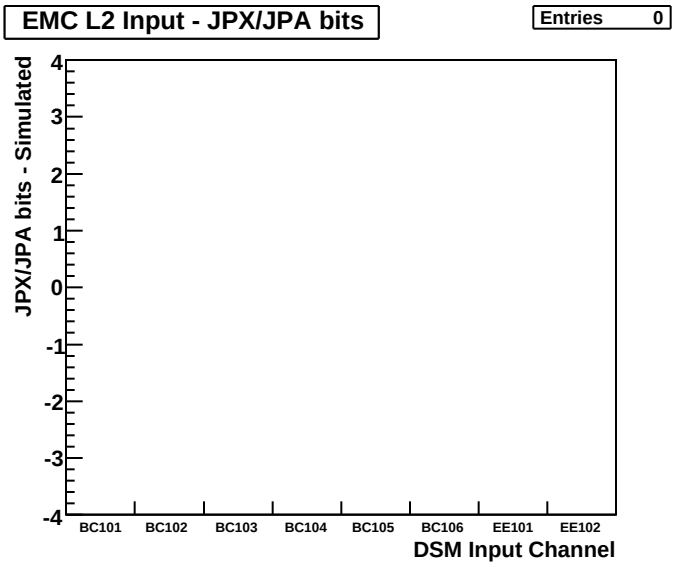

Endcap EMC L1 Input - High Eta Sum
Entries 14580
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

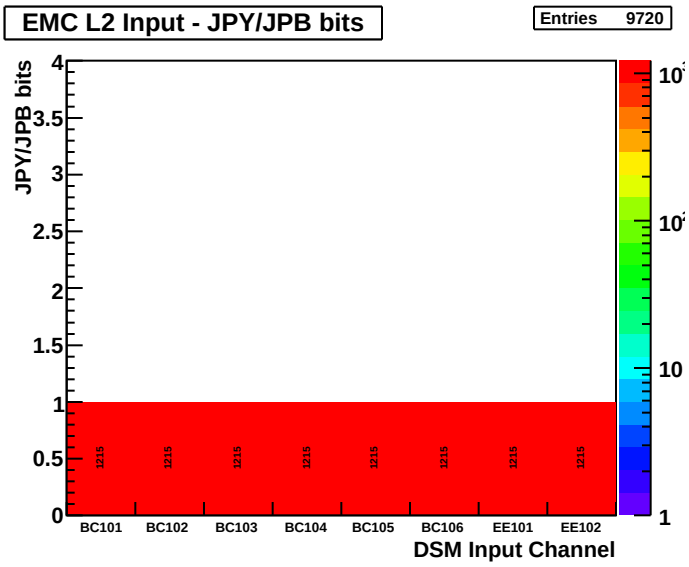

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

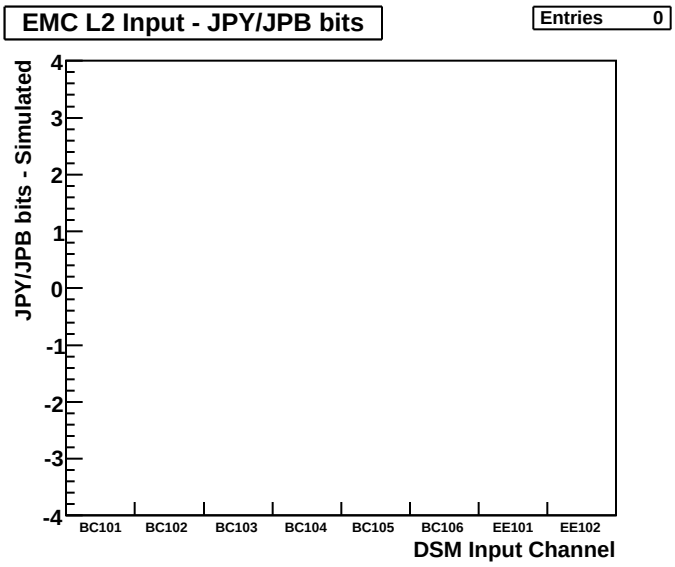

Endcap EMC L1 Input - High Tower Bits
Entries 14580
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

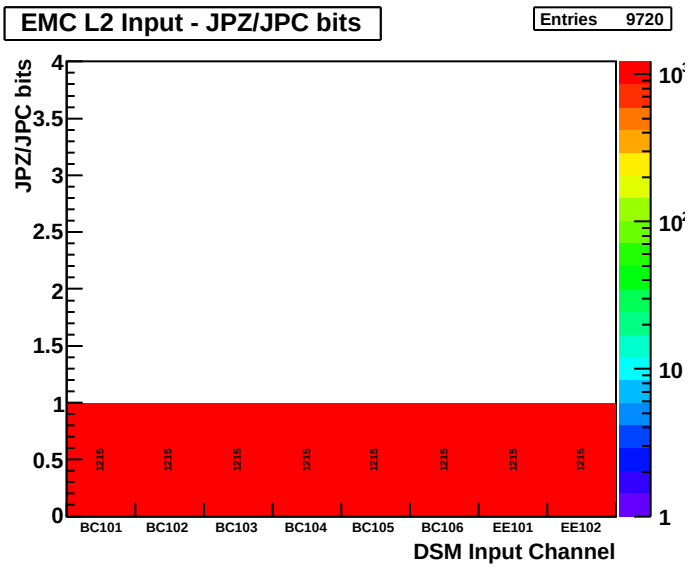

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

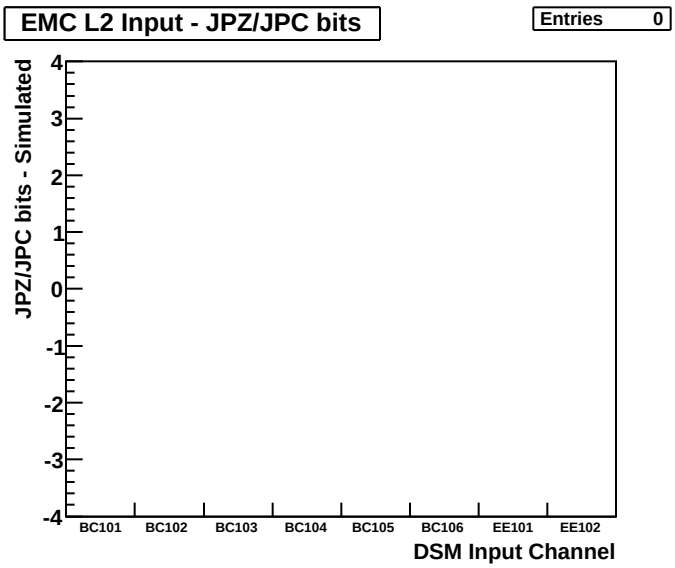

EMC L2 Input - JPX/JPA bits
Entries 9720
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

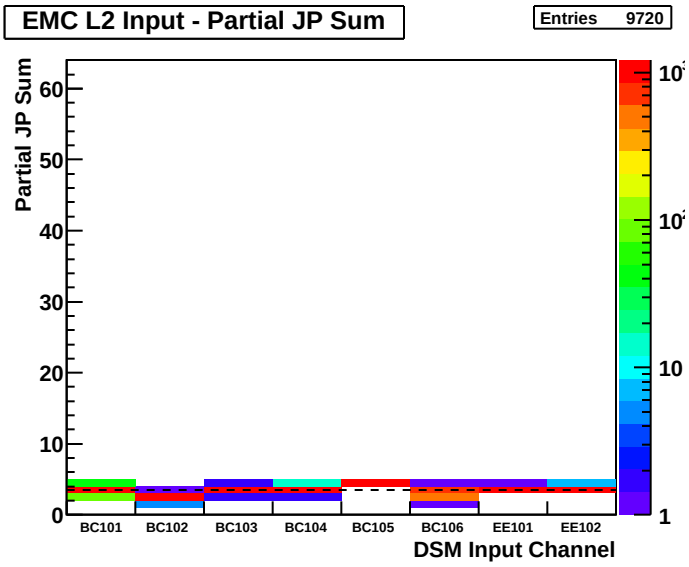

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

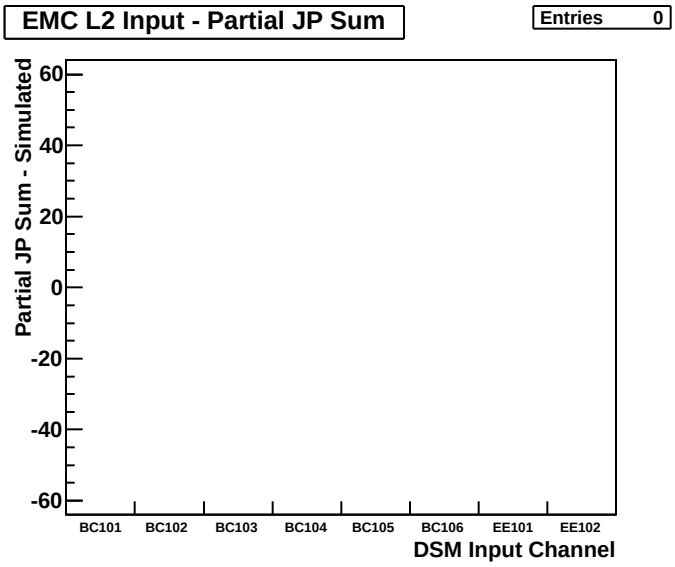

EMC L2 Input - JPY/JPB bits
Entries 9720
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

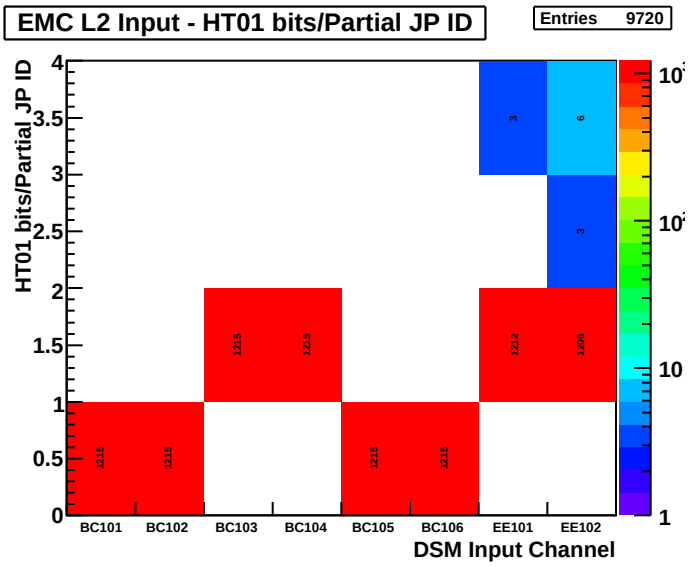

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

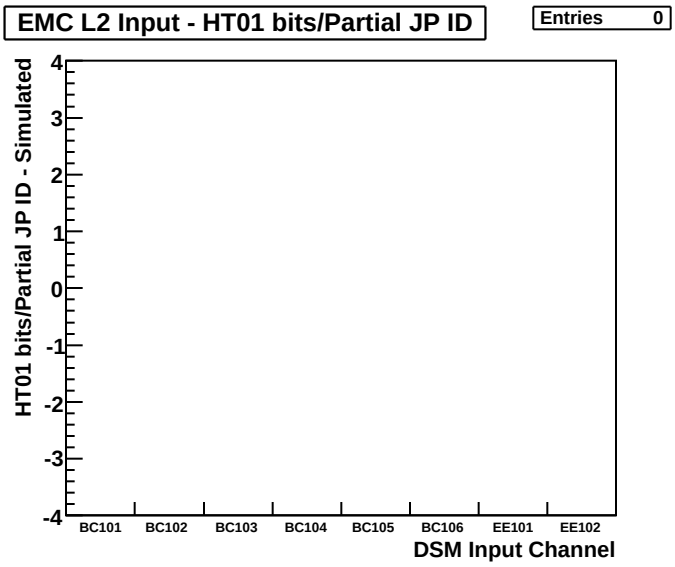

EMC L2 Input - JPZ/JPC bits
Entries 9720
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

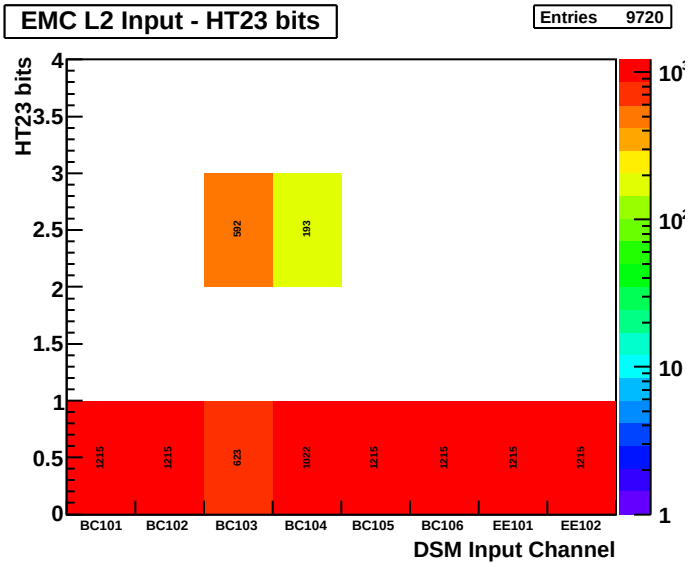

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

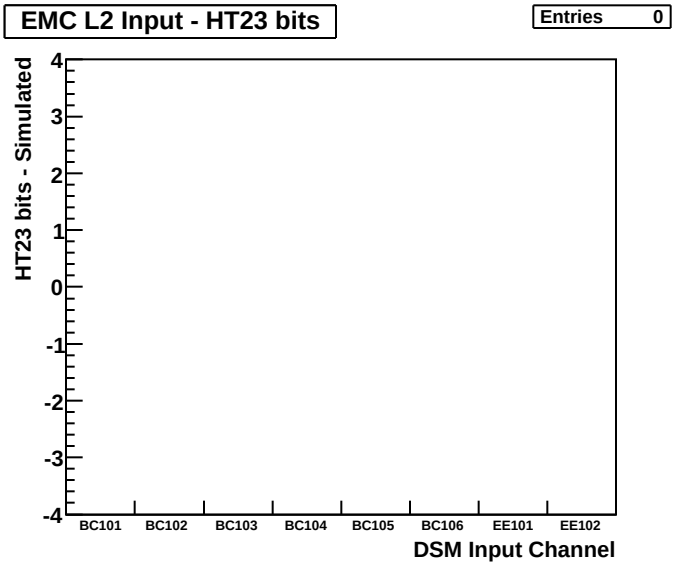

EMC L2 Input - Partial JP Sum
Entries 9720
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

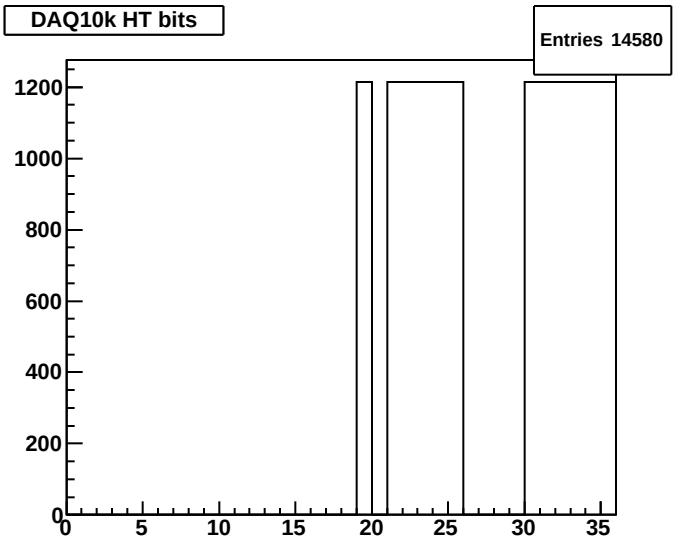

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

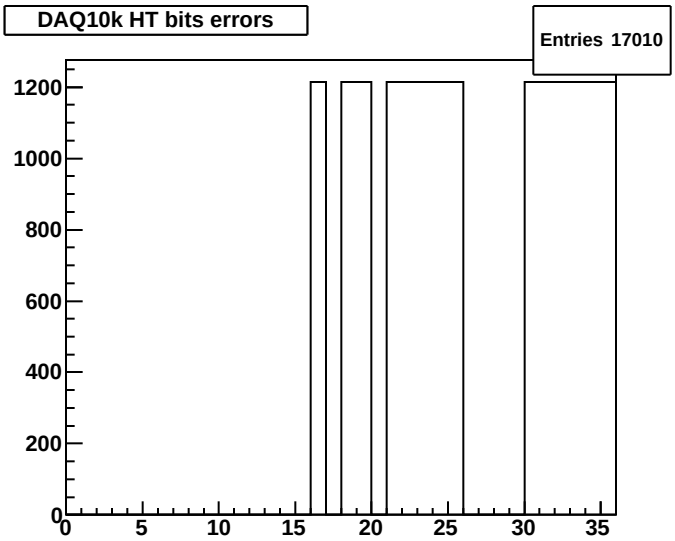

EMC L2 Input - HT01 bits/Partial JP ID
Entries 9720
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

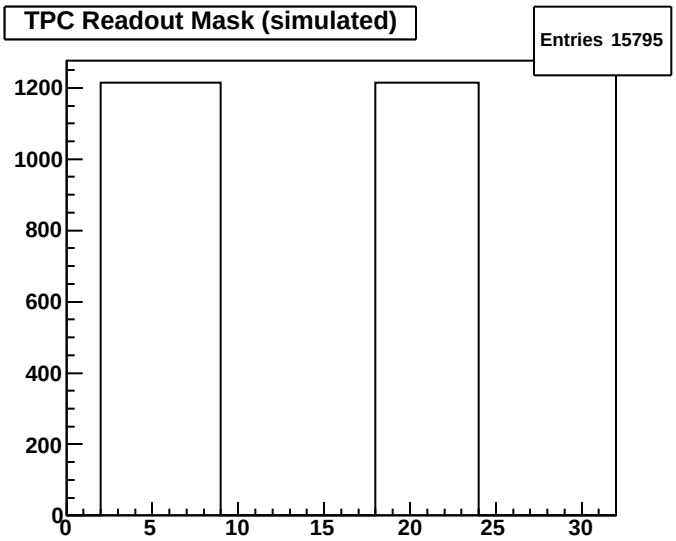

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

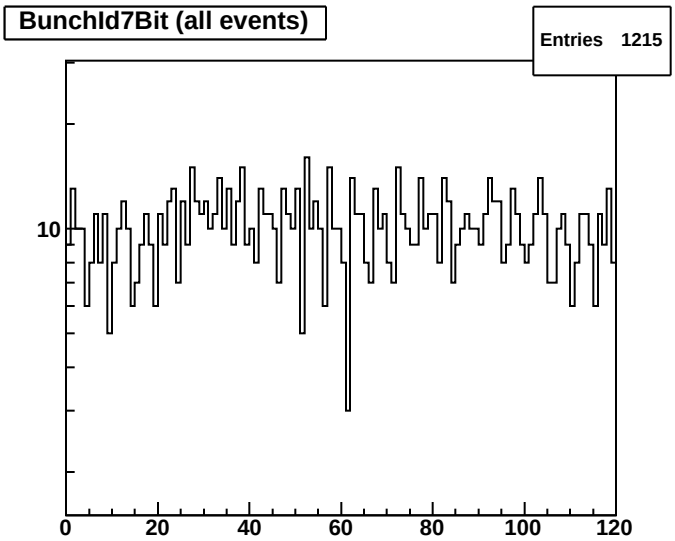

EMC L2 Input - HT23 bits
Entries 9720
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

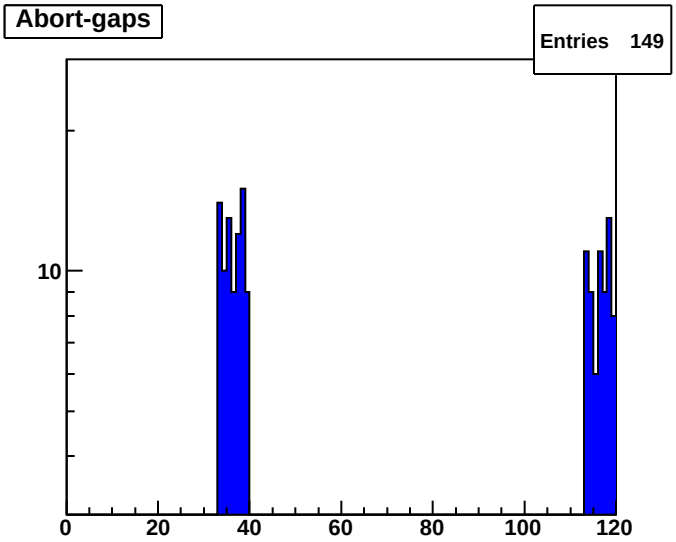

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

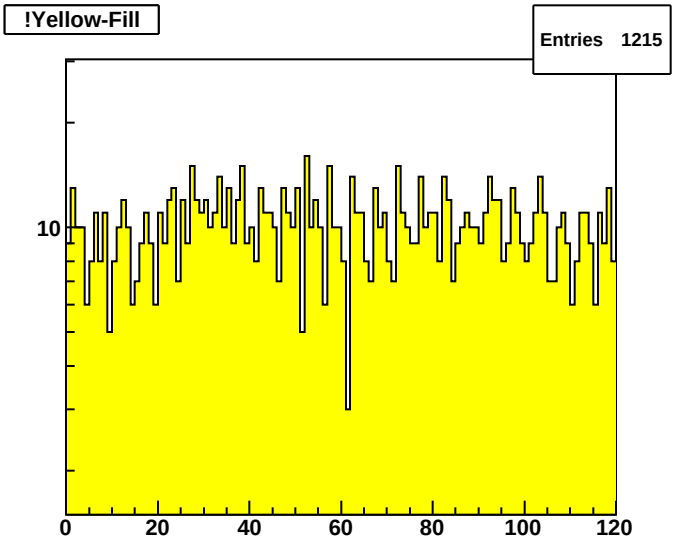

DAQ10k HT bits
Entries 14580
1200
1000
800
600
400
200
0
0 5 10 15 20 25 30 35

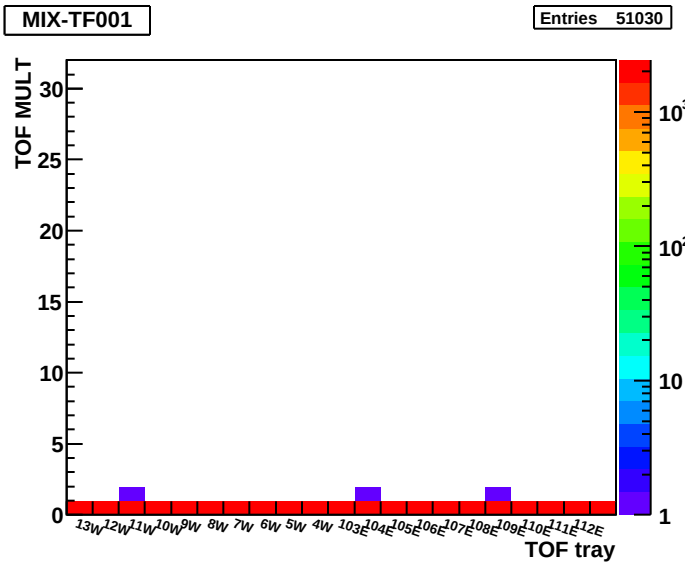

DAQ10k HT bits errors
Entries 17010
1200
1000
800
600
400
200
0
0 5 10 15 20 25 30 35

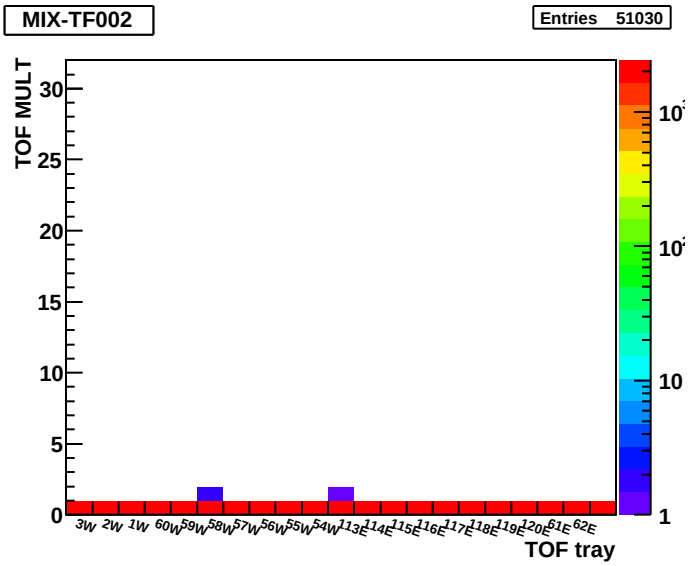

TPC Readout Mask (simulated)
Entries 15795
1200
1000
800
600
400
200
0
0 5 10 15 20 25 30

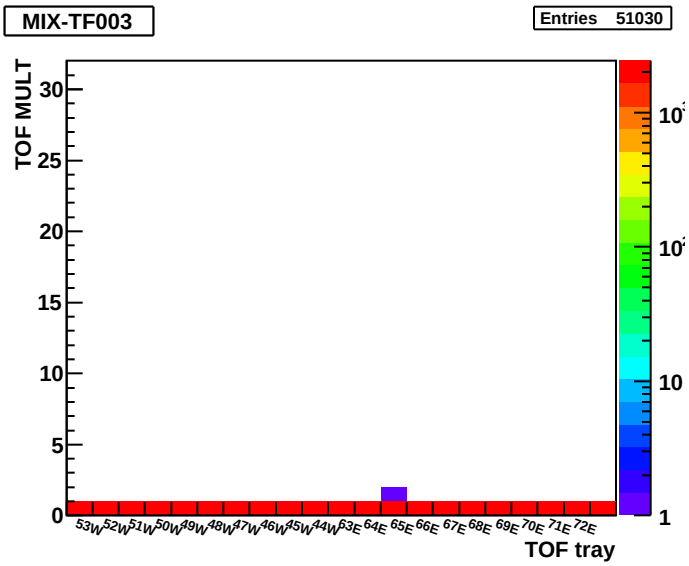

BunchId7Bit (all events)
Entries 1215
10
0 20 40 60 80 100 120

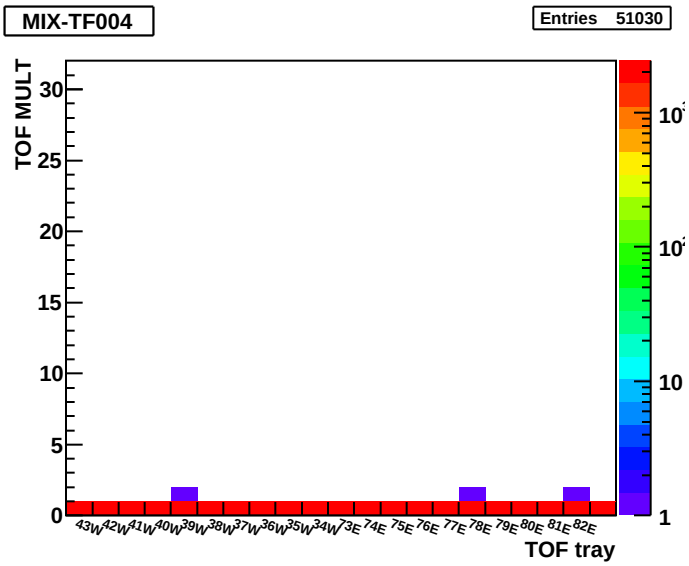

Abort-gaps
Entries 149
10
0 20 40 60 80 100 120

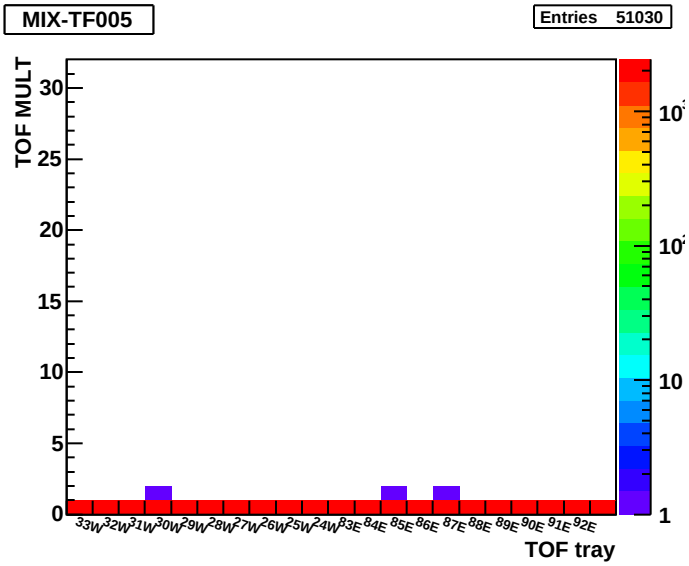

!Yellow-Fill
Entries 1215
10
0 20 40 60 80 100 120

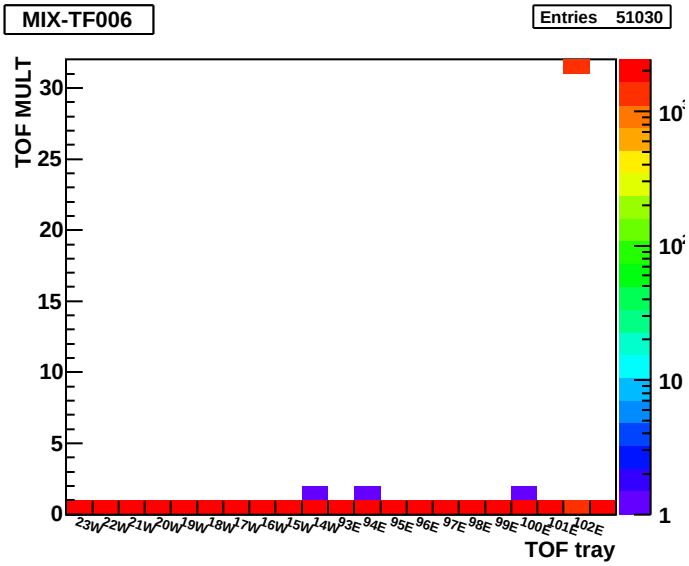

MIX-TF001
Entries 51030
TOF MULT
TOF tray

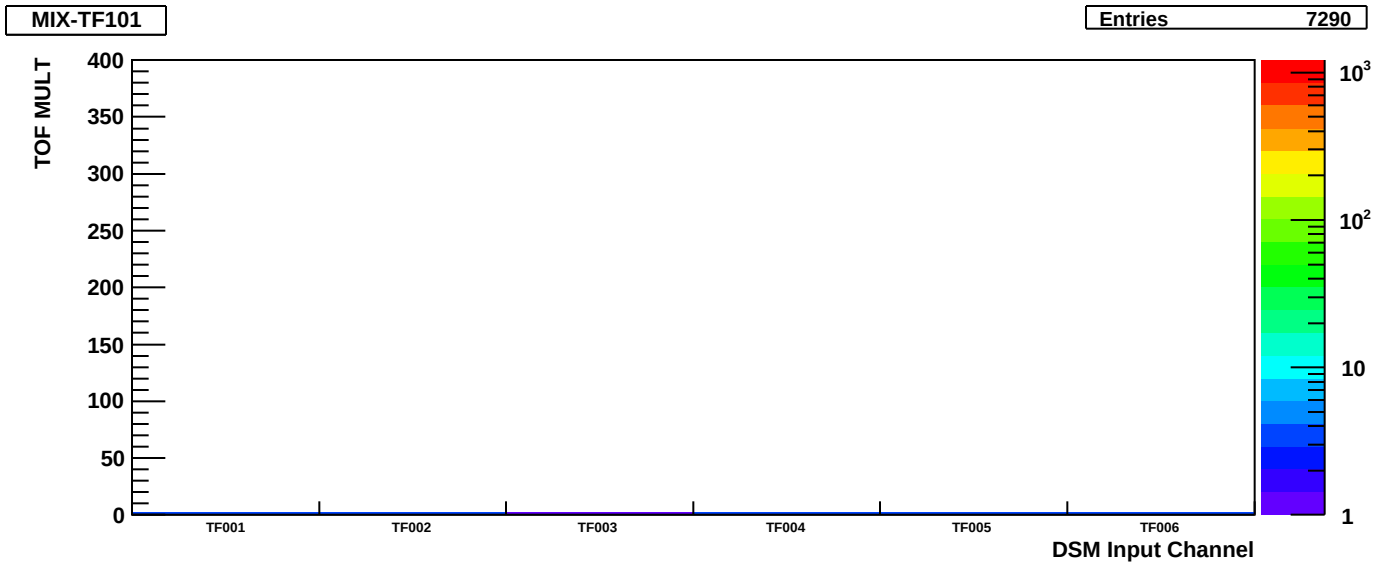

MIX-TF002
Entries 51030
TOF MULT
TOF tray

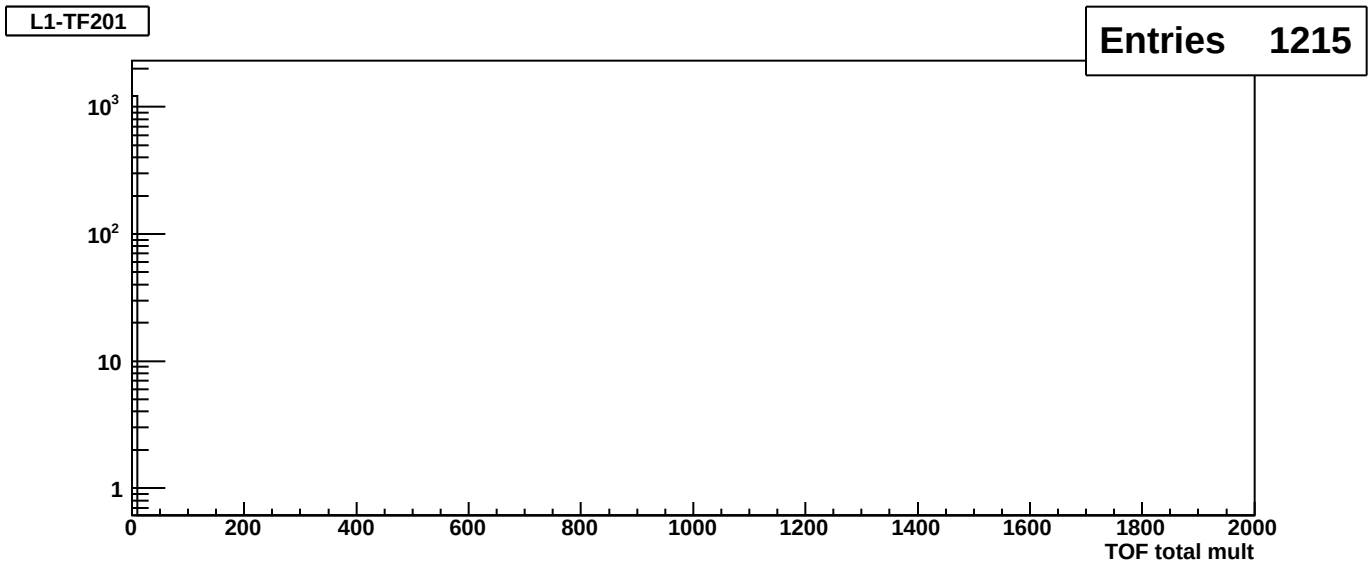

MIX-TF003
Entries 51030
TOF MULT
TOF tray

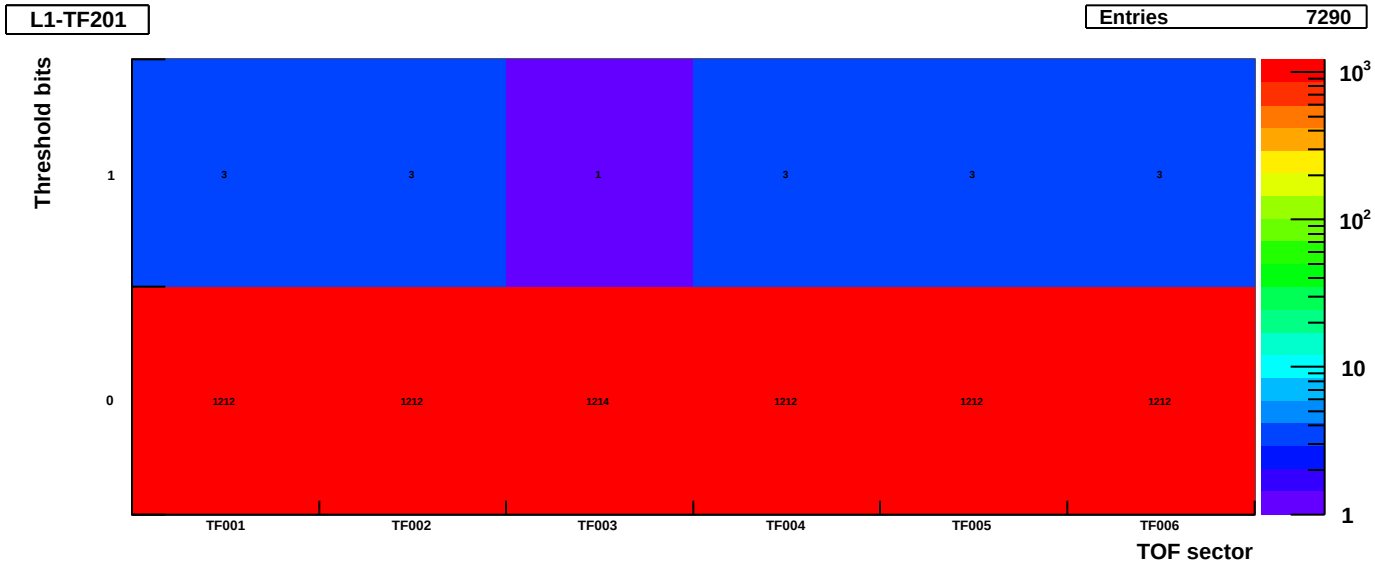

MIX-TF004
Entries 51030
TOF MULT
TOF tray

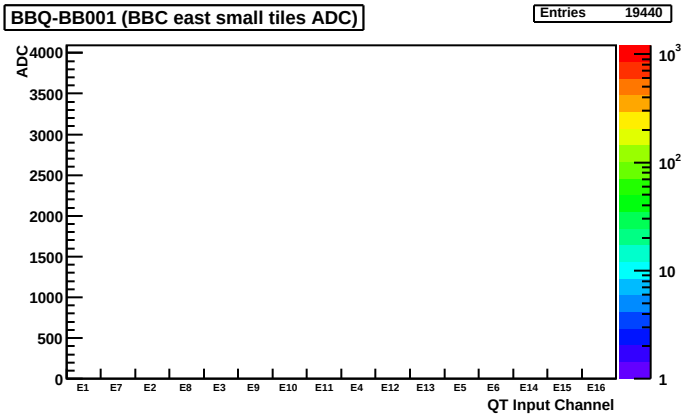

MIX-TF005
Entries 51030
TOF MULT
TOF tray

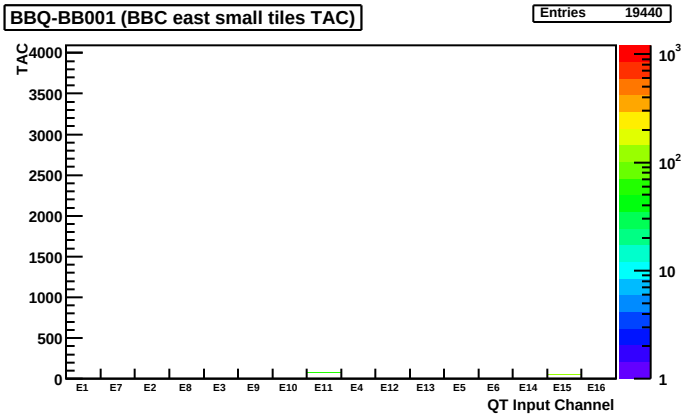

MIX-TF006
Entries 51030
TOF MULT
TOF tray

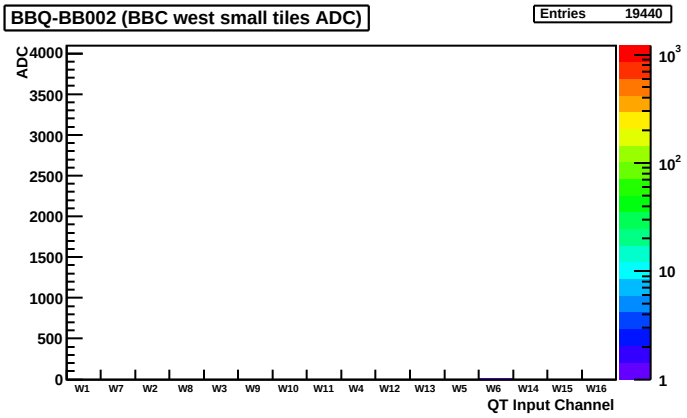

MIX-TF101
Entries 7290
TOF MULT
400
350
300
250
200
150
100
50
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3
10^2
10
1

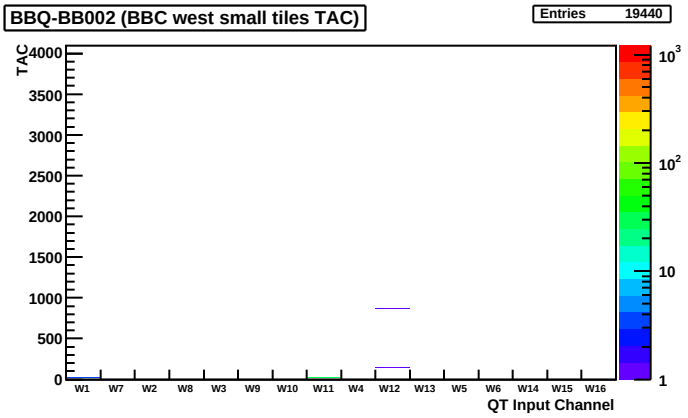

L1-TF201
Entries 1215
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
1600
1800
2000
TOF total mult

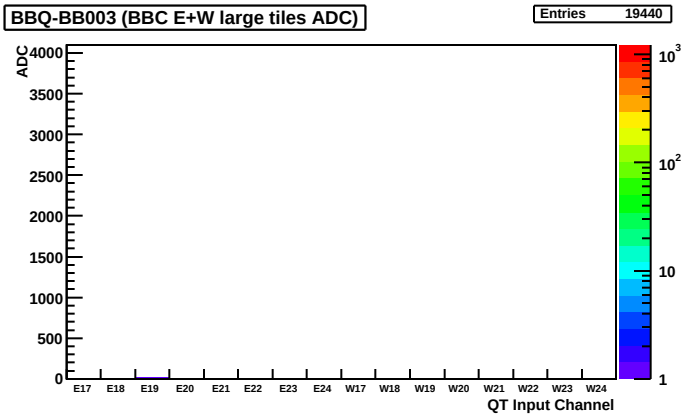

L1-TF201
Entries 7290
Threshold bits
1
0
3
3
1
3
3
3
1212
1212
1214
1212
1212
1212
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^3
10^2
10
1

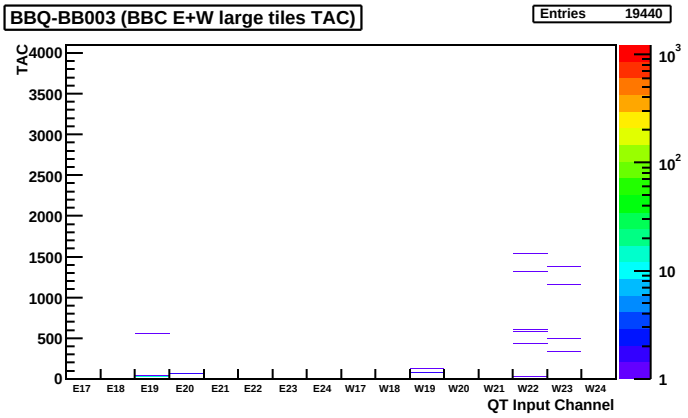

BBQ-BB001 (BBC east small tiles ADC)
Entries 19440
ADC
QT Input Channel

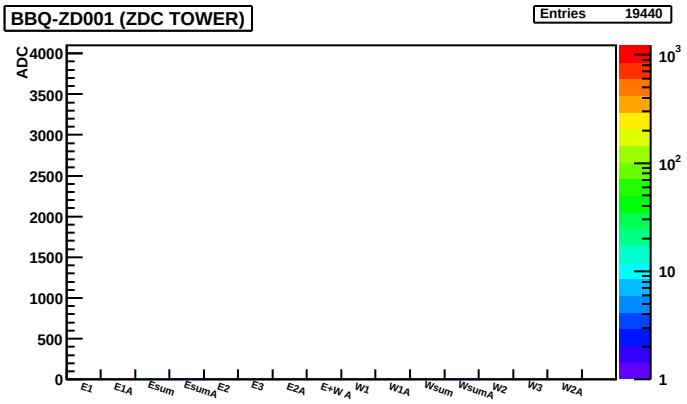

BBQ-BB001 (BBC east small tiles TAC)
Entries 19440
TAC
QT Input Channel

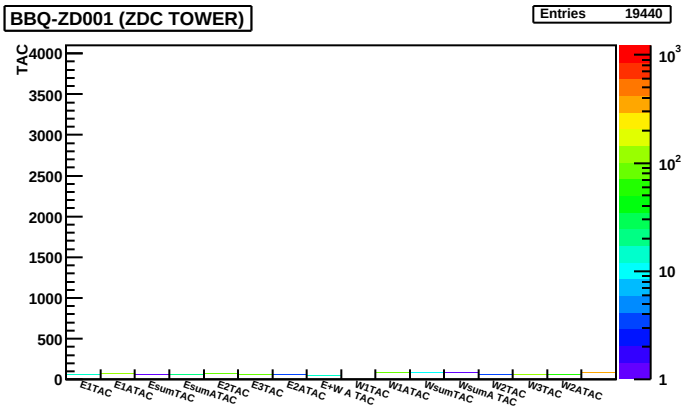

BBQ-BB002 (BBC west small tiles ADC)
Entries 19440
ADC
QT Input Channel

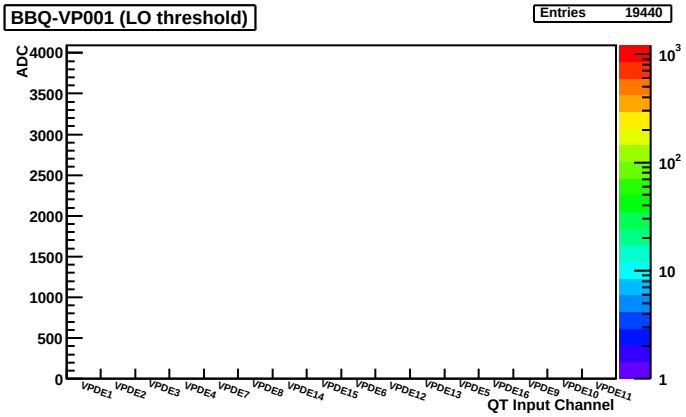

BBQ-BB002 (BBC west small tiles TAC)
Entries 19440
TAC
QT Input Channel

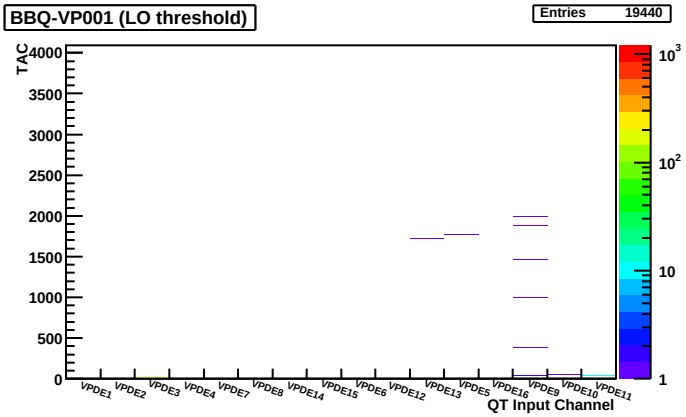

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 19440
ADC
QT Input Channel

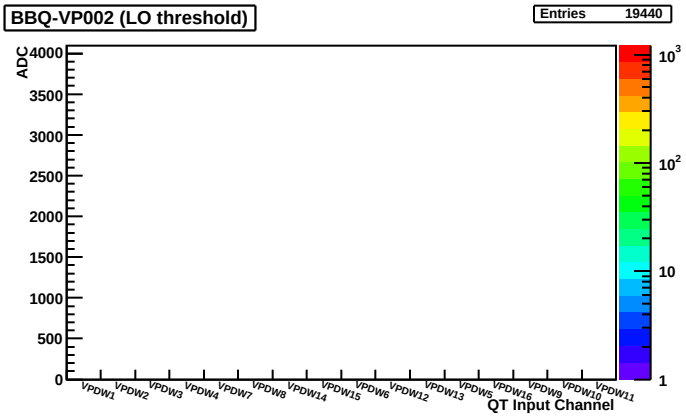

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 19440
TAC
QT Input Channel

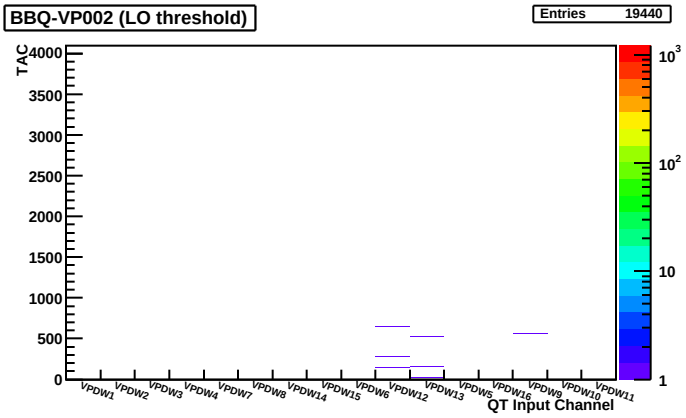

BBQ-ZD001 (ZDC TOWER)
Entries 19440
ADC

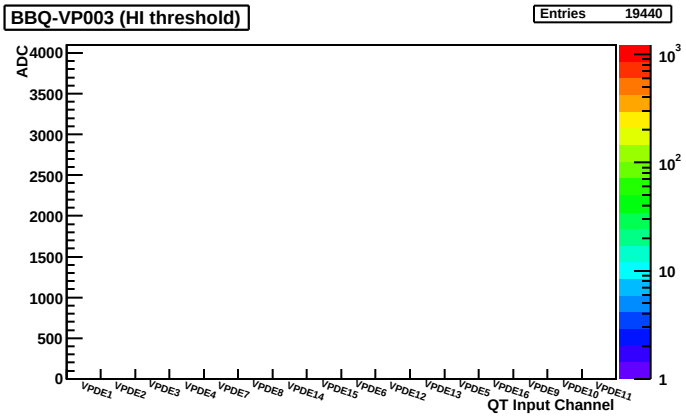

BBQ-ZD001 (ZDC TOWER)
Entries 19440
TAC

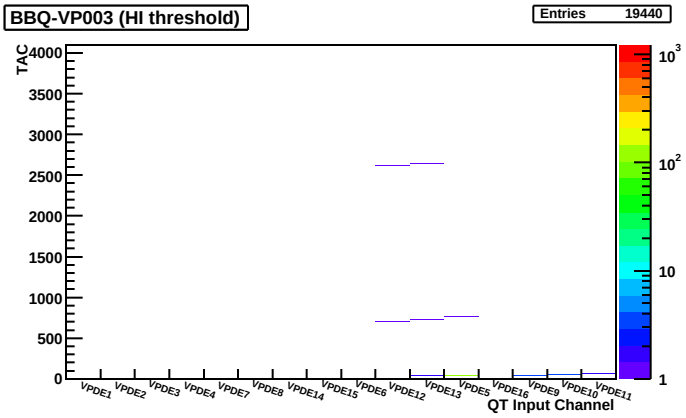

BBQ-VP001 (LO threshold)
Entries 19440
ADC
QT Input Channel

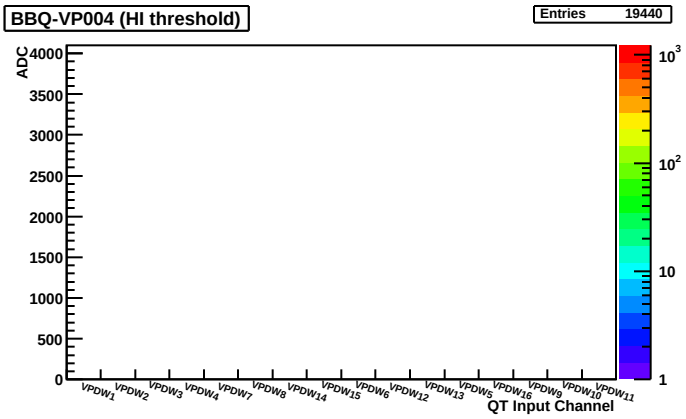

BBQ-VP001 (LO threshold)
Entries 19440
TAC
QT Input Channel

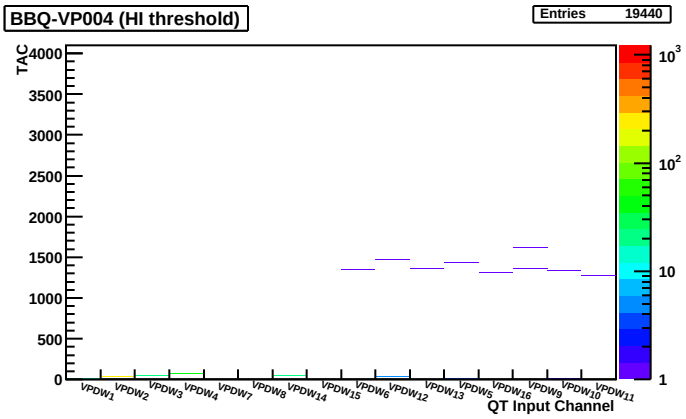

BBQ-VP002 (LO threshold)
Entries 19440
ADC
QT Input Channel

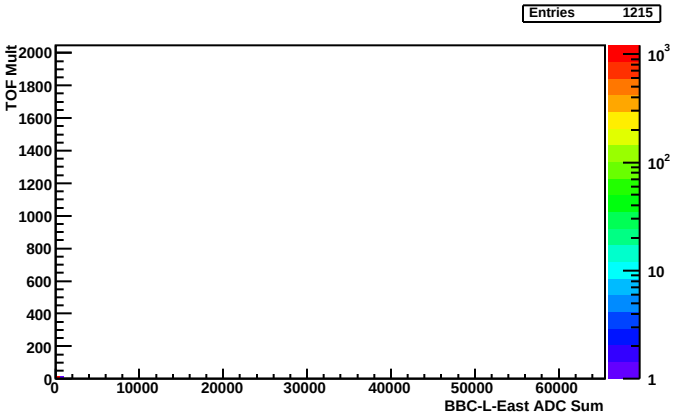

BBQ-VP002 (LO threshold)
Entries 19440
TAC
QT Input Channel

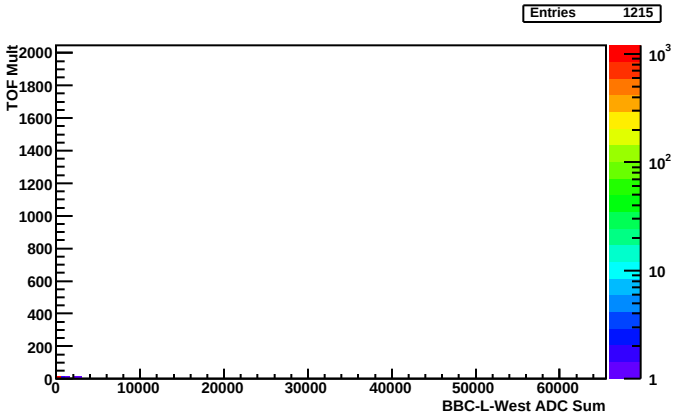

BBQ-VP003 (HI threshold)
Entries 19440
ADC
QT Input Channel

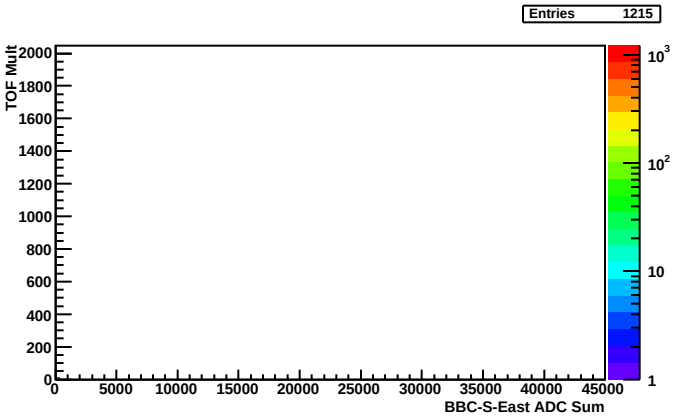

BBQ-VP003 (HI threshold)
Entries 19440
TAC
QT Input Channel

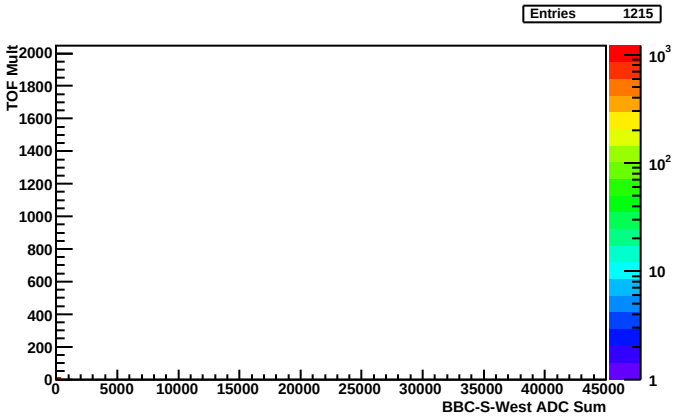

BBQ-VP004 (HI threshold)
Entries 19440
ADC
QT Input Channel

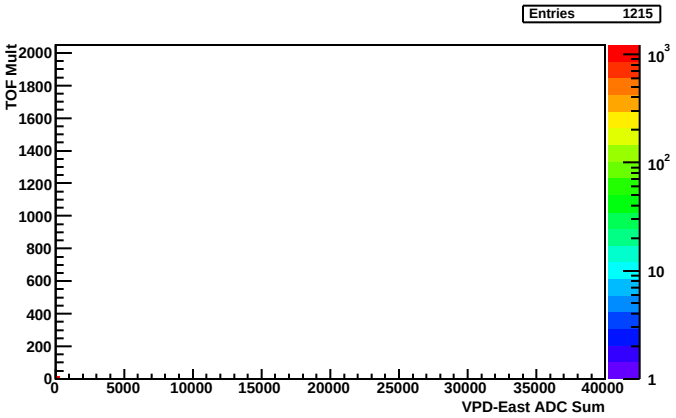

BBQ-VP004 (HI threshold)
Entries 19440
TAC
QT Input Channel

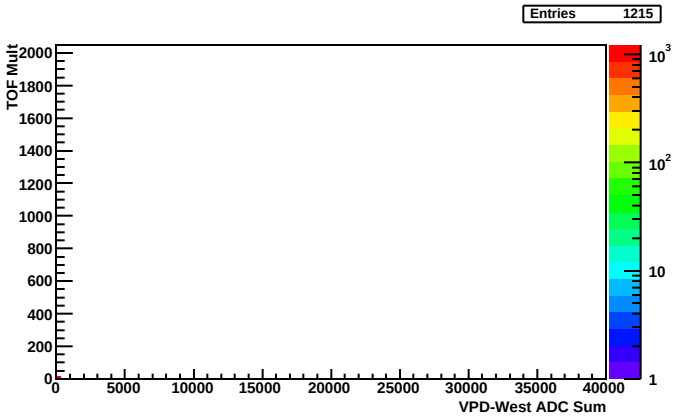

Entries 1215
TOF Mult
BBC-L-East ADC Sum

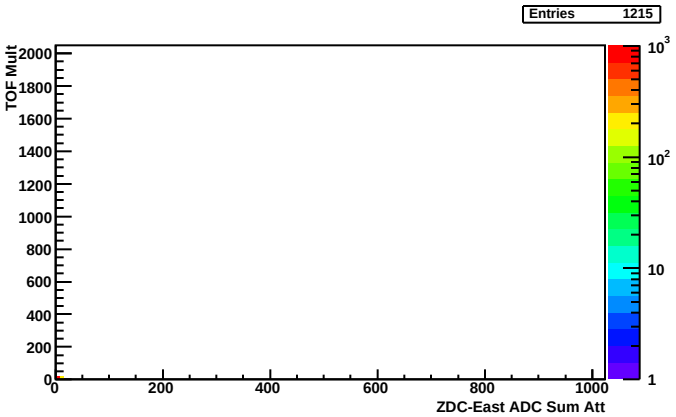

Entries 1215
TOF Mult
BBC-L-West ADC Sum

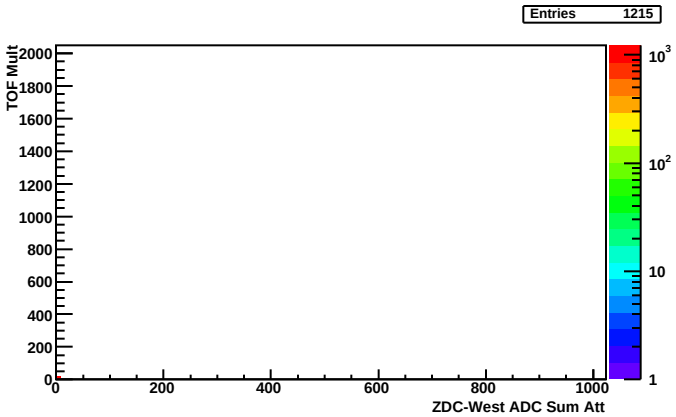

Entries 1215
TOF Mult
BBC-S-East ADC Sum

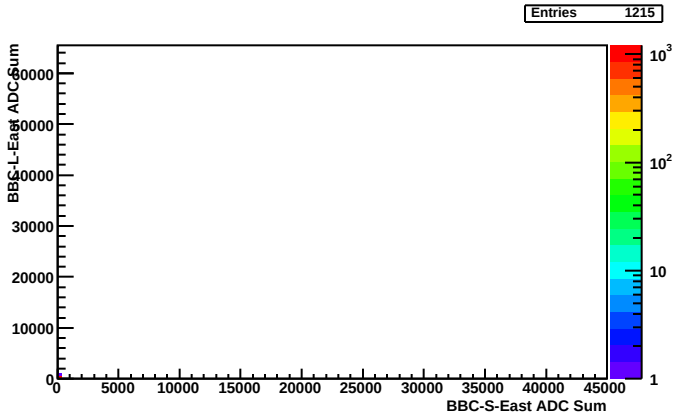

Entries 1215
TOF Mult
BBC-S-West ADC Sum

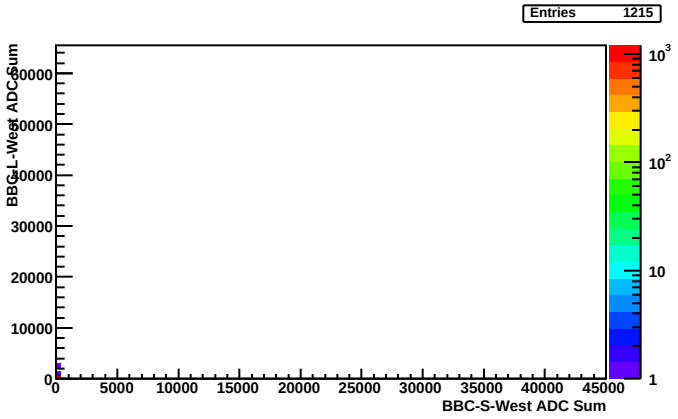

Entries 1215
TOF Mult
VPD-East ADC Sum

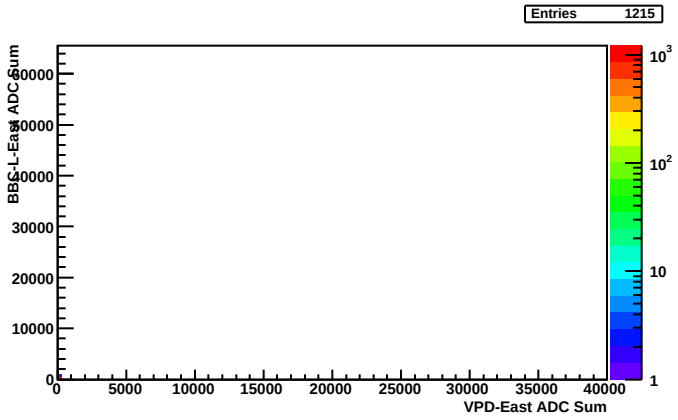

Entries 1215
TOF Mult
VPD-West ADC Sum

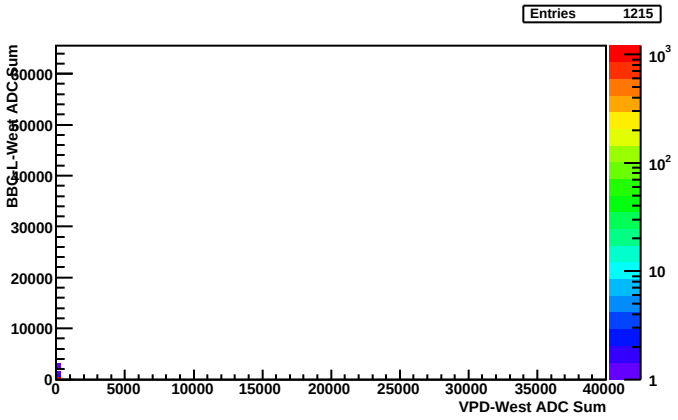

Entries 1215
TOF Mult
ZDC-East ADC Sum Att

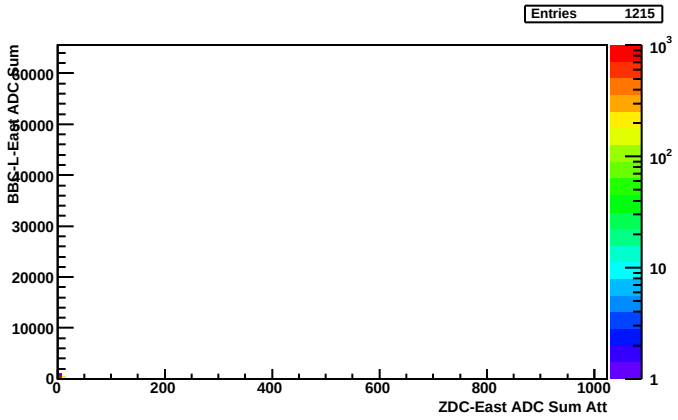

Entries 1215
TOF Mult
ZDC-West ADC Sum Att

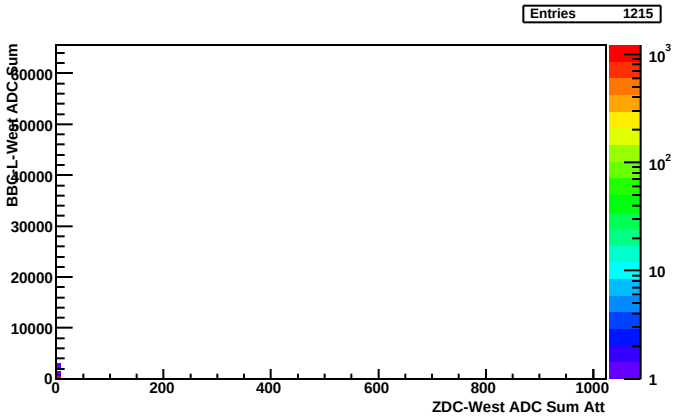

Entries 1215
BBC-L-East ADC Sum
BBC-S-East ADC Sum

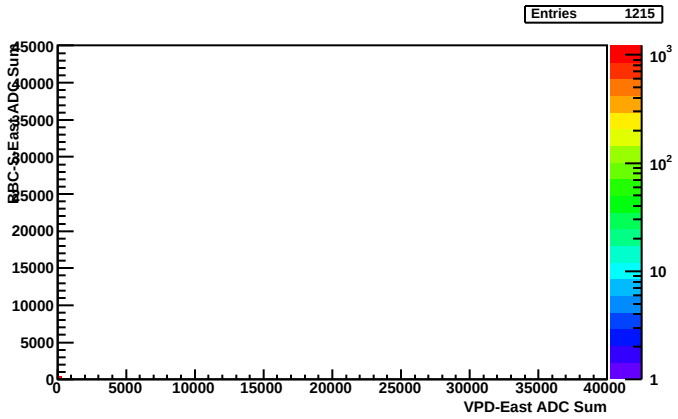

Entries 1215
BBC-L-West ADC Sum
BBC-S-West ADC Sum

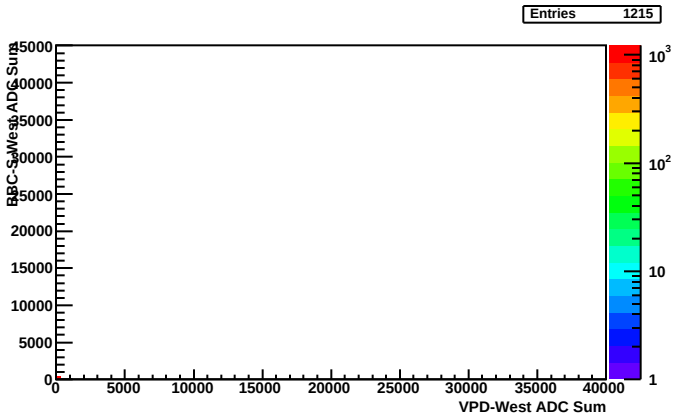

Entries 1215
BBC-L-East ADC Sum
VPD-East ADC Sum

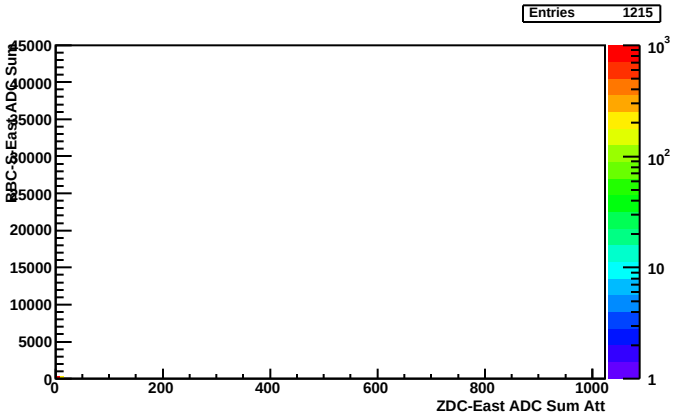

Entries 1215
BBC-L-West ADC Sum
VPD-West ADC Sum

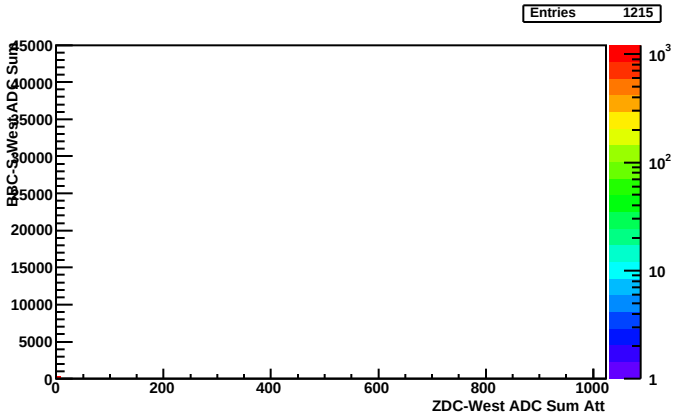

Entries 1215
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

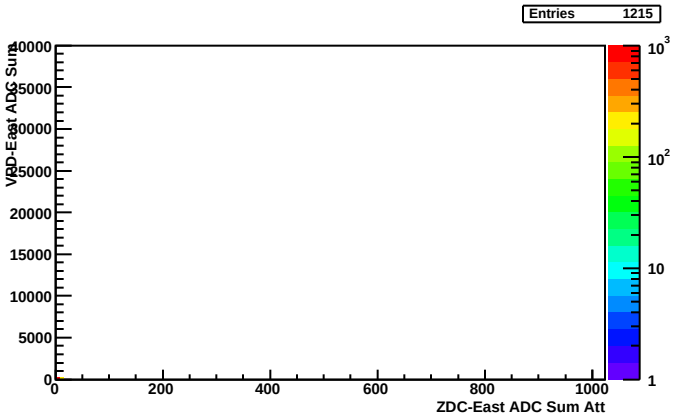

Entries 1215
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

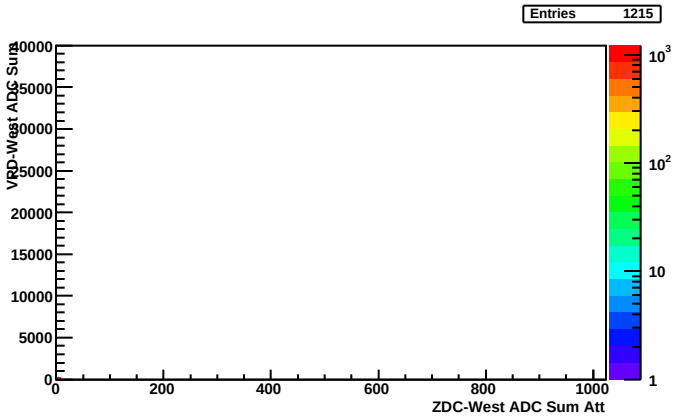

Entries 1215
BBC-S-East ADC Sum
VPD-East ADC Sum

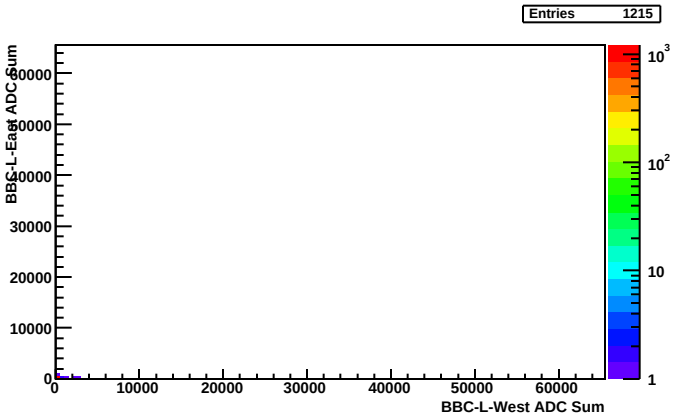

Entries 1215
BBC-S-West ADC Sum
VPD-West ADC Sum

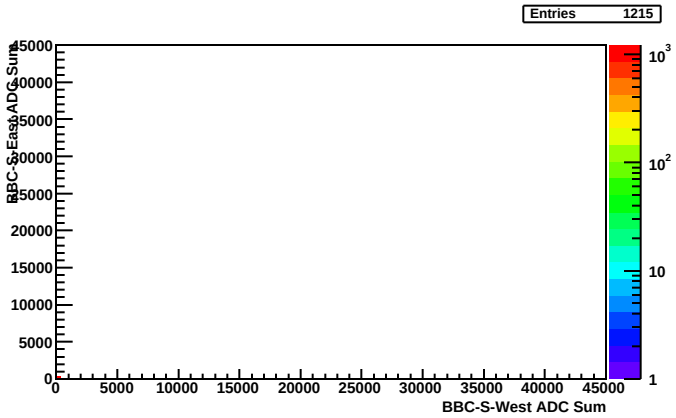

Entries 1215
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

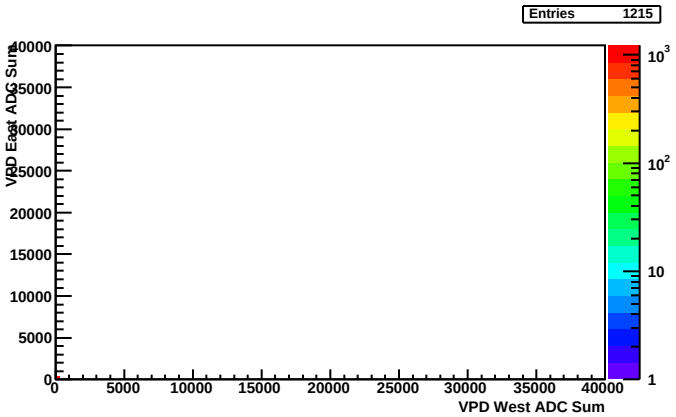

Entries 1215
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

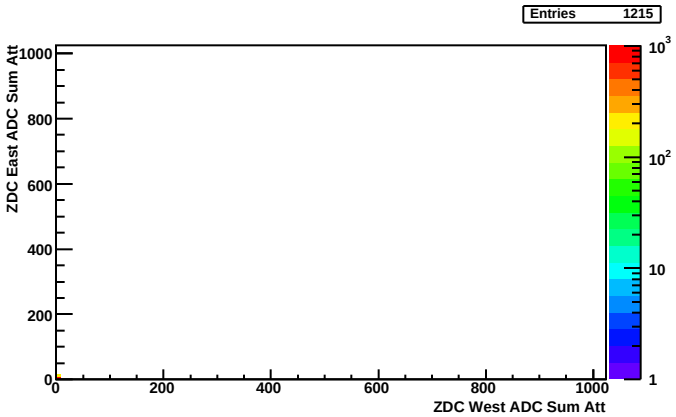

Entries 1215
VPD-East ADC Sum
ZDC-East ADC Sum Att

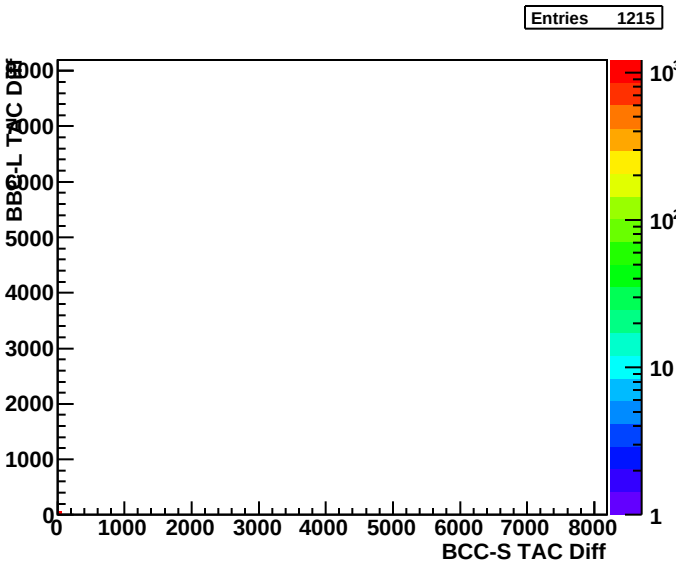

Entries 1215
VPD-West ADC Sum
ZDC-West ADC Sum Att

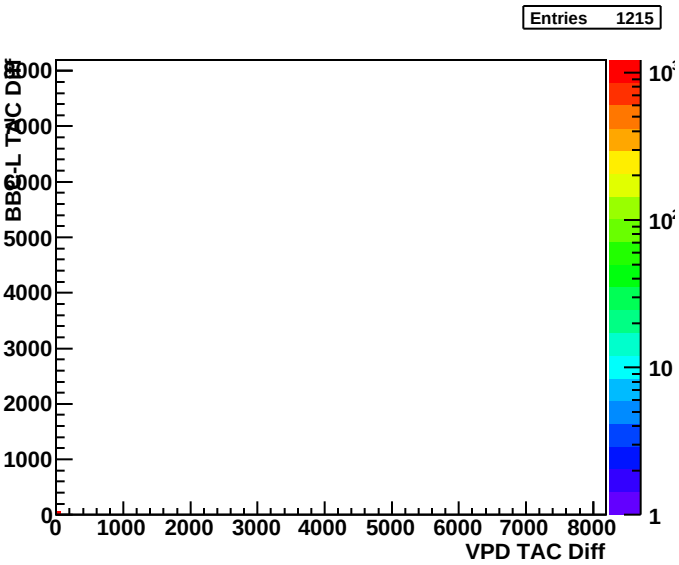

Entries 1215
BBC-L-East ADC Sum
BBC-L-West ADC Sum

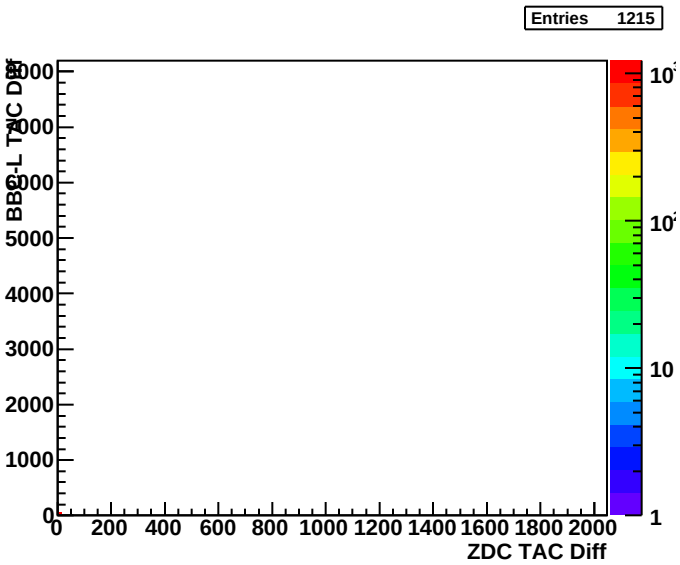

Entries 1215
BBC-S-East ADC Sum
BBC-S-West ADC Sum

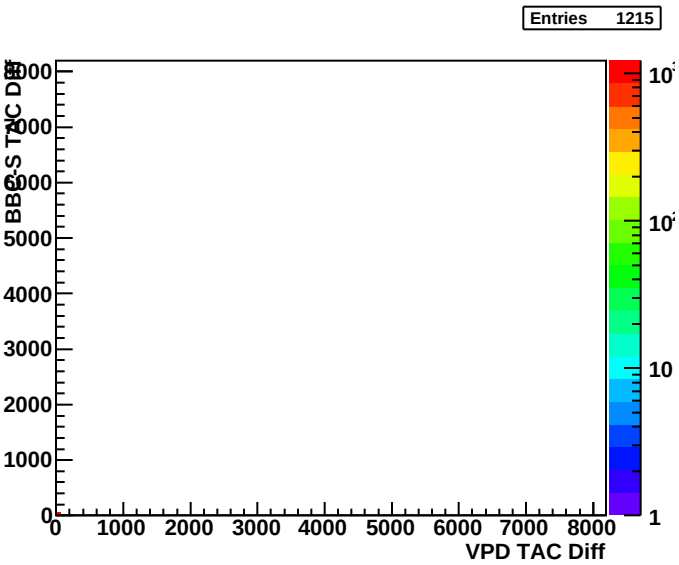

Entries 1215
VPD East ADC Sum
VPD West ADC Sum

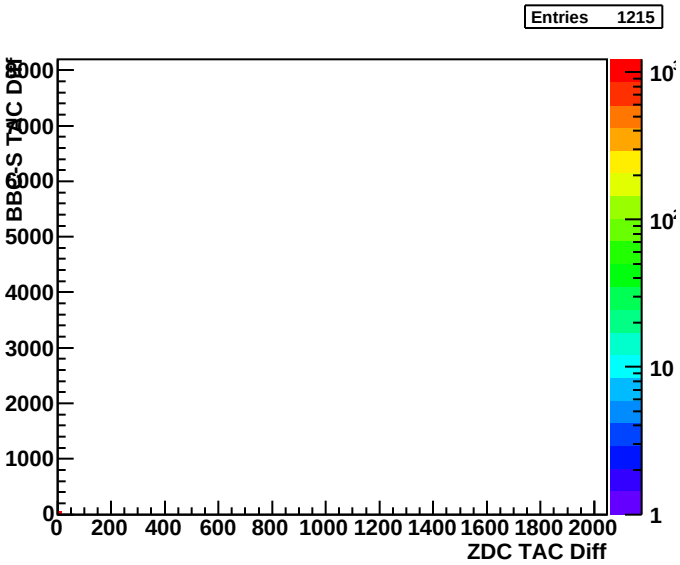

Entries 1215
ZDC East ADC Sum Att
ZDC West ADC Sum Att

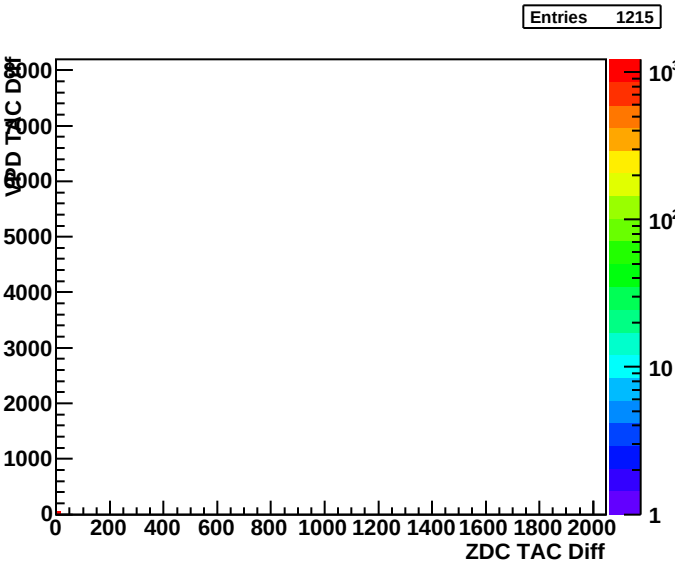

Entries 1215
BBC-L TAC Diff
BCC-S TAC Diff

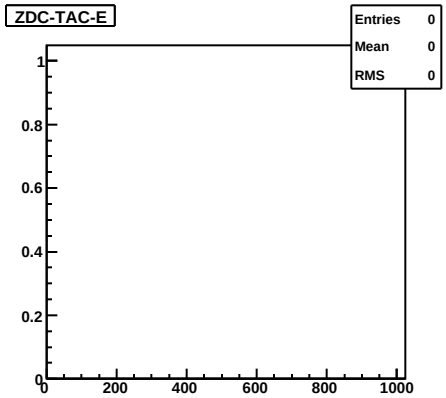

Entries 1215
BBC-L TAC Diff
VPD TAC Diff

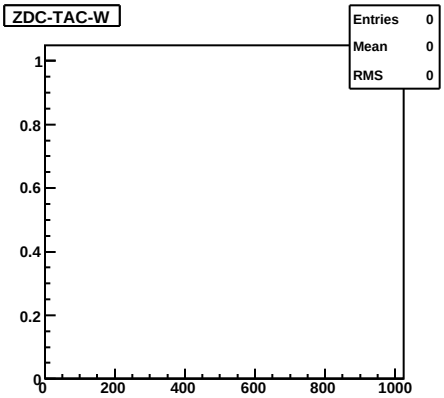

Entries 1215
BBC-L TAC Diff
ZDC TAC Diff

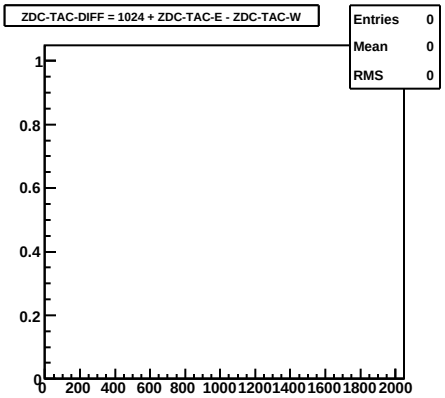

Entries 1215
BBC-S TAC Diff
VPD TAC Diff

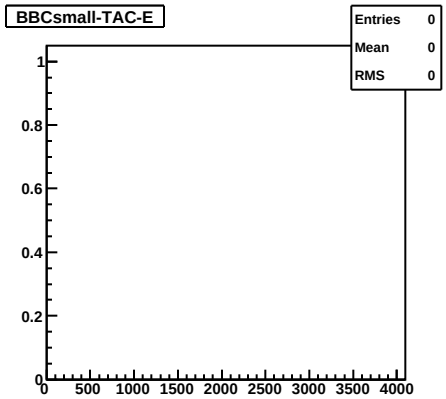

Entries 1215
BBC-S TAC Diff
ZDC TAC Diff

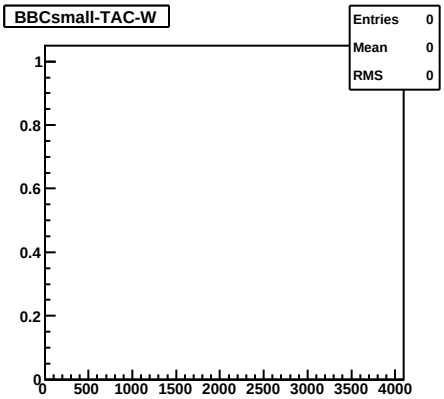

Entries 1215
VPD TAC Diff
ZDC TAC Diff

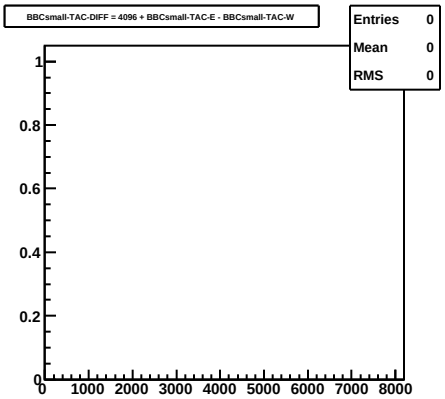

ZDC-TAC-E
Entries 0
Mean 0
RMS 0

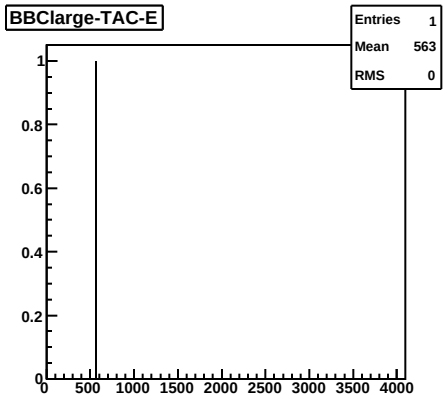

ZDC-TAC-W
Entries 0
Mean 0
RMS 0

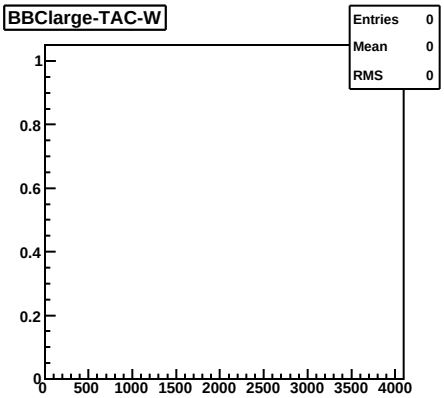

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 0
Mean 0
RMS 0

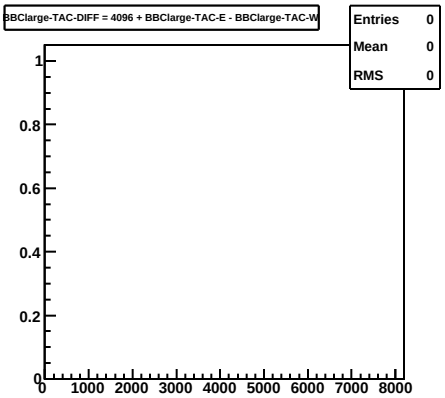

BBCsmall-TAC-E
Entries 0
Mean 0
RMS 0

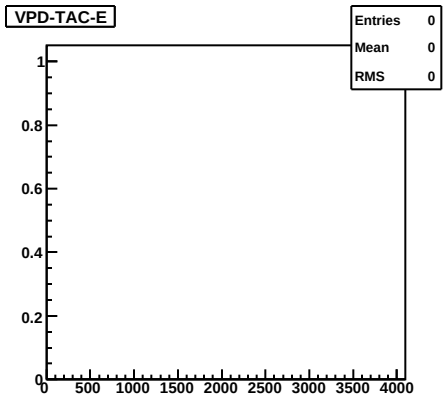

BBCsmall-TAC-W
Entries 0
Mean 0
RMS 0

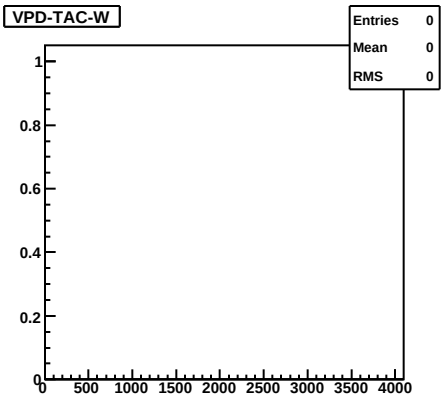

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 0
Mean 0
RMS 0

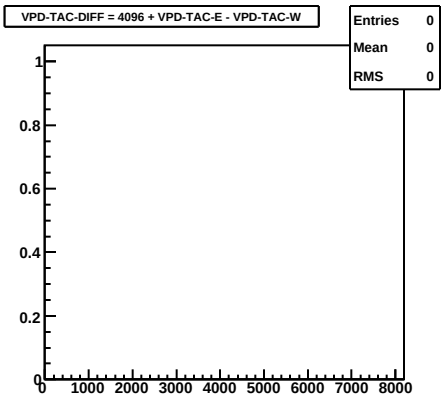

BBClarge-TAC-E
Entries 1
Mean 563
RMS 0

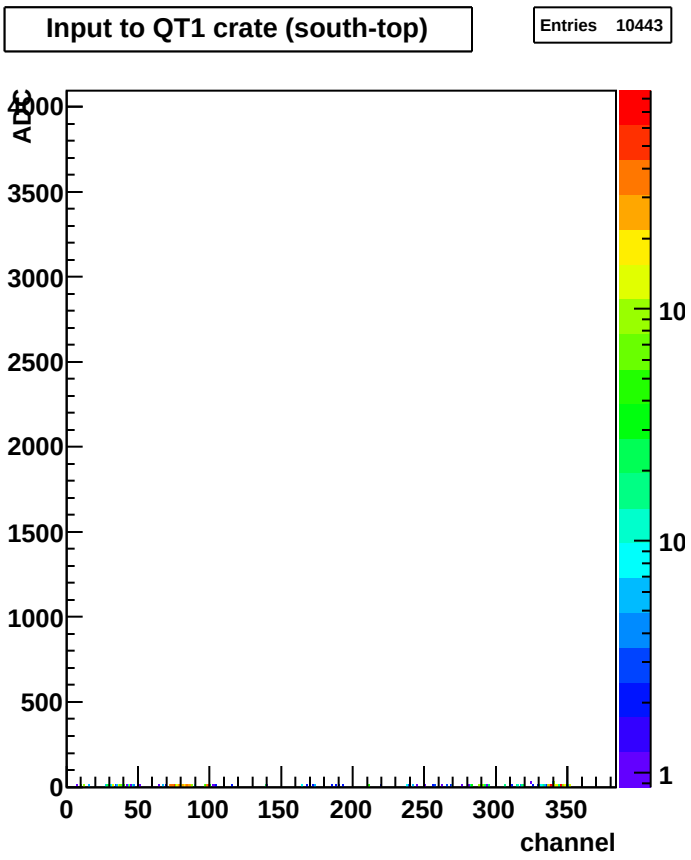

BBClarge-TAC-W
Entries 0
Mean 0
RMS 0

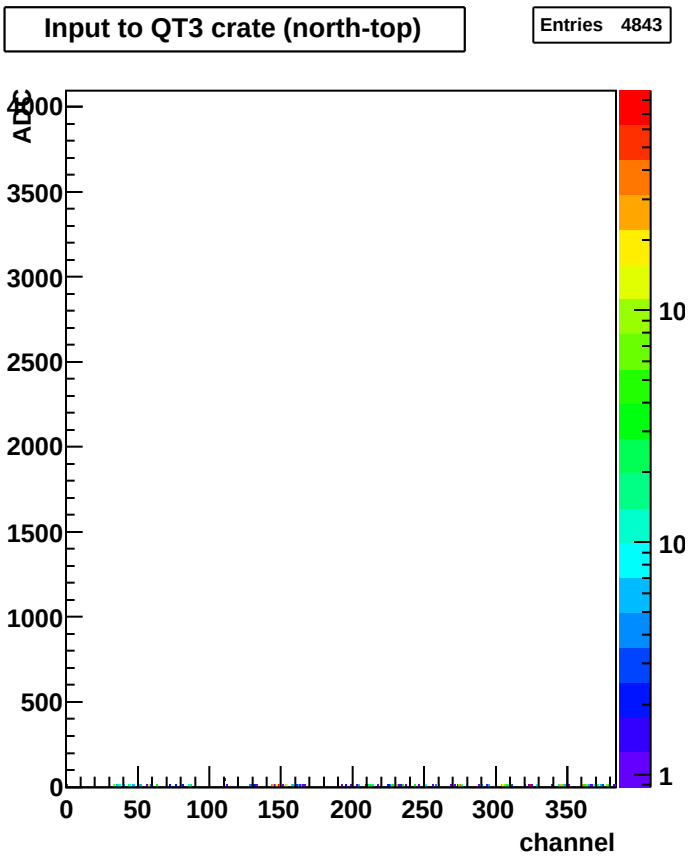

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 0
Mean 0
RMS 0

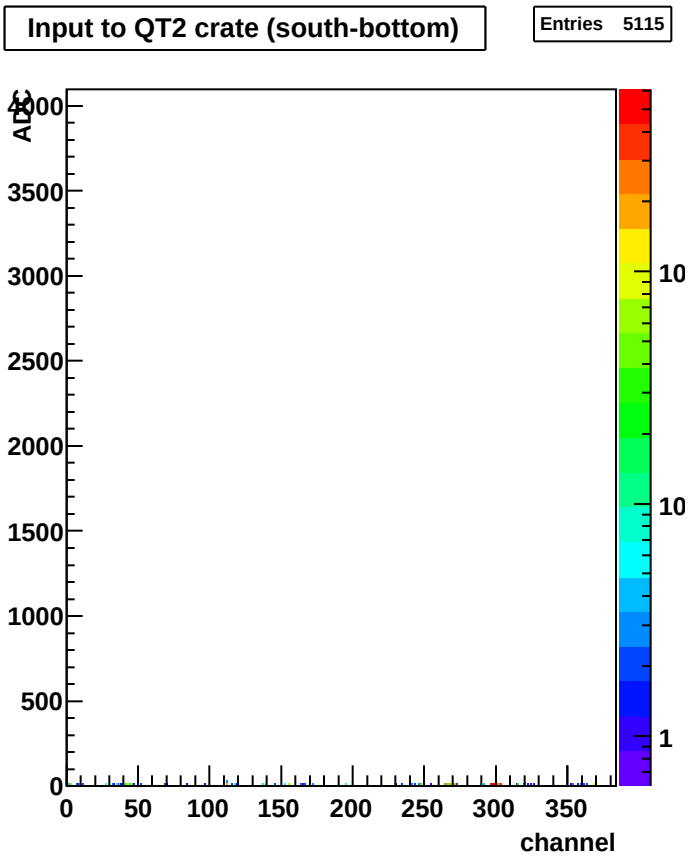

VPD-TAC-E
Entries 0
Mean 0
RMS 0

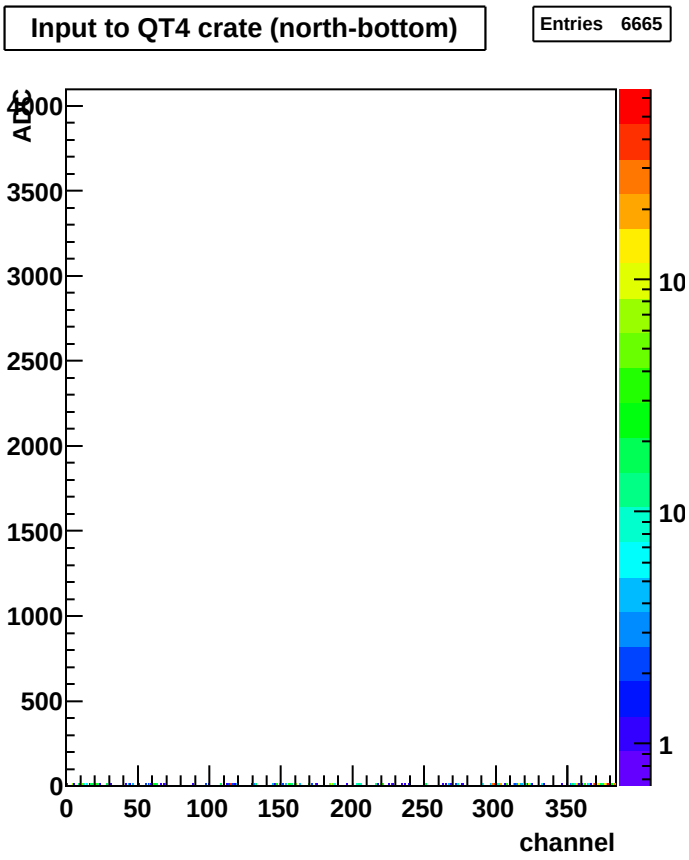

VPD-TAC-W
Entries 0
Mean 0
RMS 0

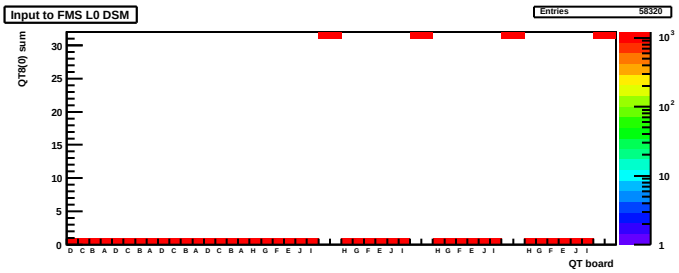

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 0
Mean 0
RMS 0

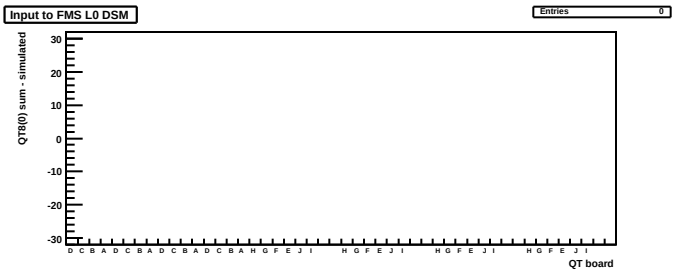

Input to QT1 crate (south-top)
Entries 10443
ADC
channel

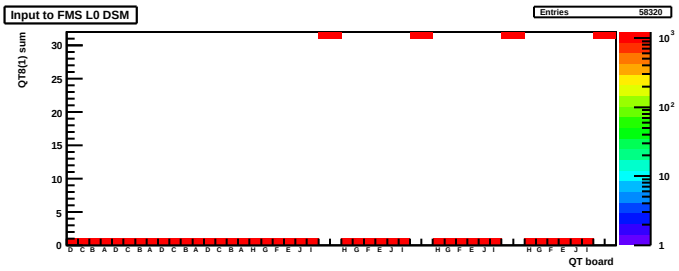

Input to QT3 crate (north-top)
Entries 4843
ADC
channel

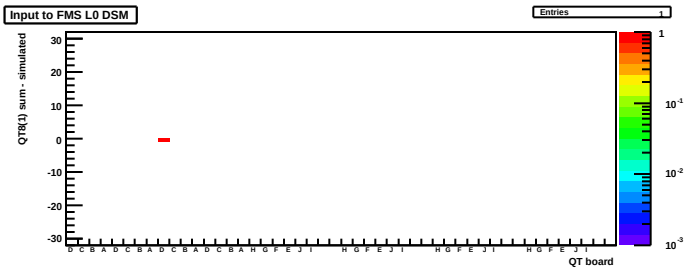

Input to QT2 crate (south-bottom)
Entries 5115
ADC
channel

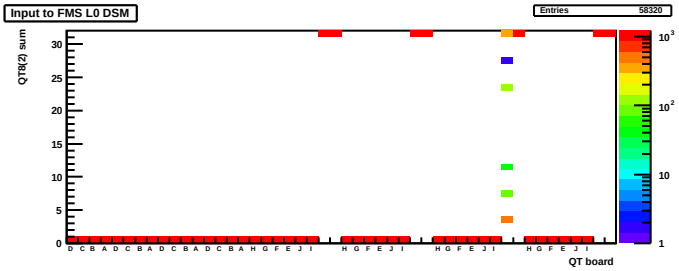

Input to QT4 crate (north-bottom)
Entries 6665
ADC
channel

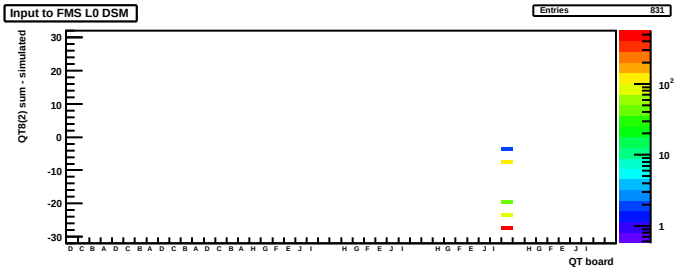

Input to FMS L0 DSM
Entries 58320
QT8(0) sum
QT board

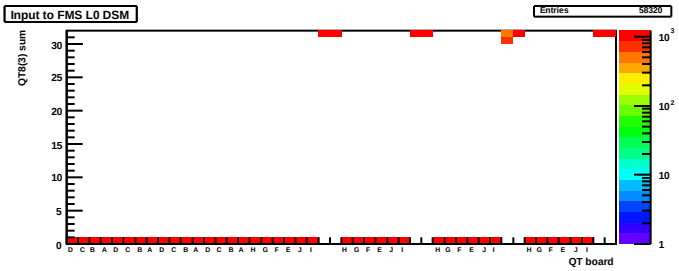

Input to FMS L0 DSM
Entries 0
QT8(0) sum - simulated
QT board

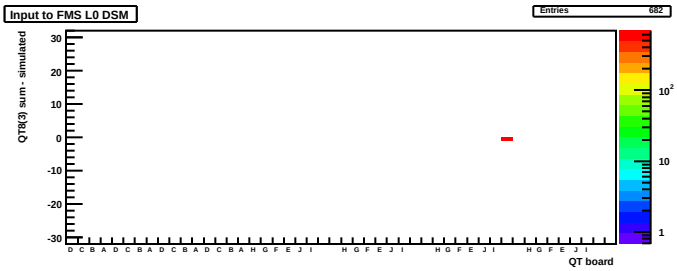

Input to FMS L0 DSM
Entries 58320
QT8(1) sum
QT board

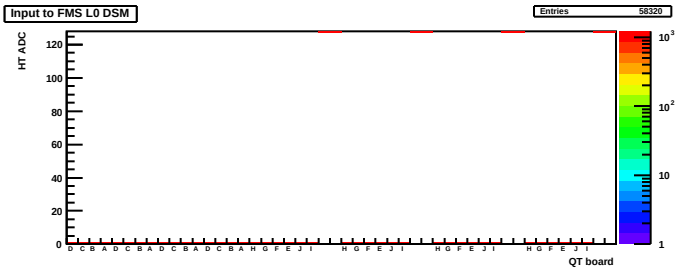

Input to FMS L0 DSM
Entries 1
QT8(1) sum - simulated
QT board

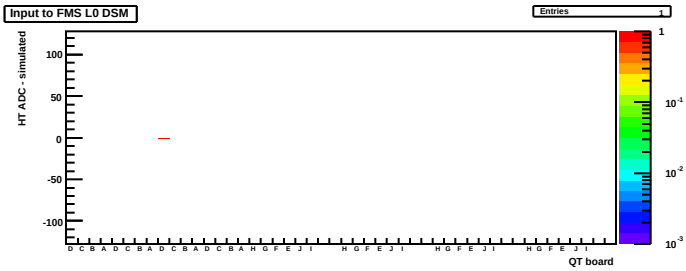

Input to FMS L0 DSM
Entries 58320
QT8(2) sum
QT board

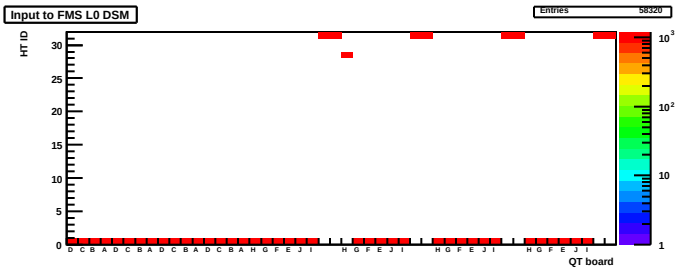

Input to FMS L0 DSM
Entries 831
QT8(2) sum - simulated
QT board

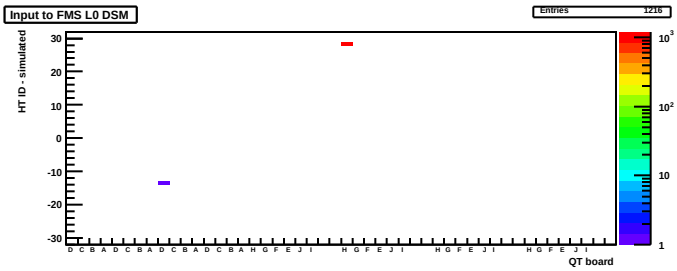

Input to FMS L0 DSM
Entries 58320
QT8(3) sum
QT board

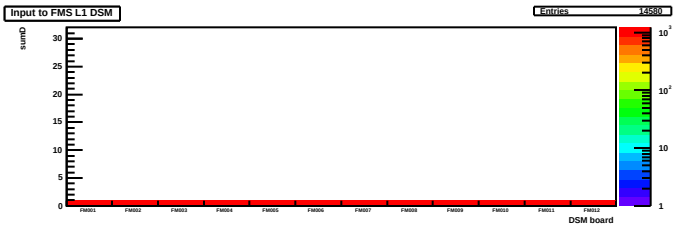

Input to FMS L0 DSM
Entries 682
QT8(3) sum - simulated
QT board

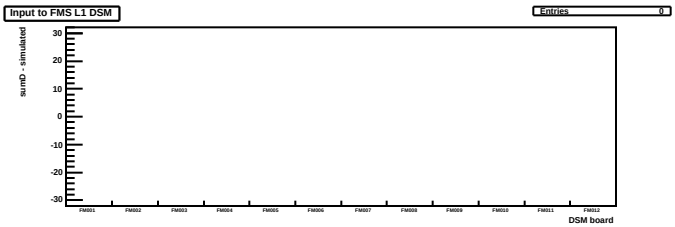

Input to FMS L0 DSM
Entries 58320
HT ADC
QT board

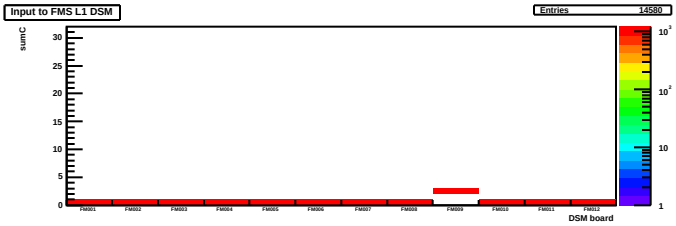

Input to FMS L0 DSM
Entries 1
HT ADC - simulated
QT board

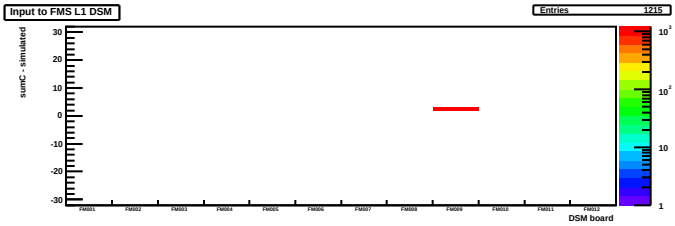

Input to FMS L0 DSM
Entries 58320
HT ID
QT board

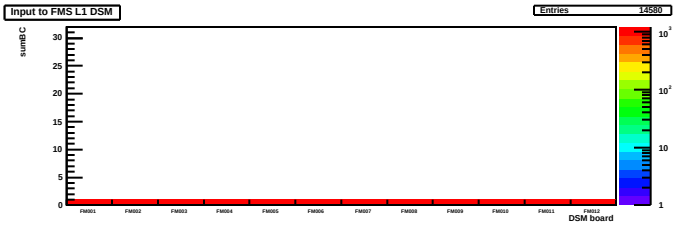

Input to FMS L0 DSM
Entries 1216
HT ID - simulated
QT board

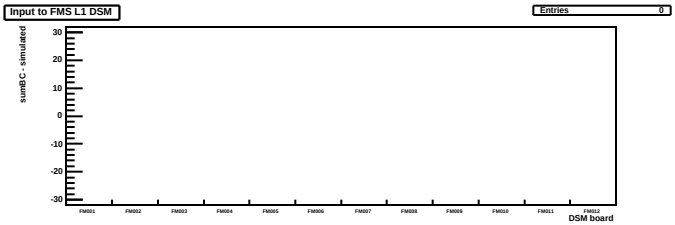

Input to FMS L1 DSM
Entries 14580
sumD
DSM board

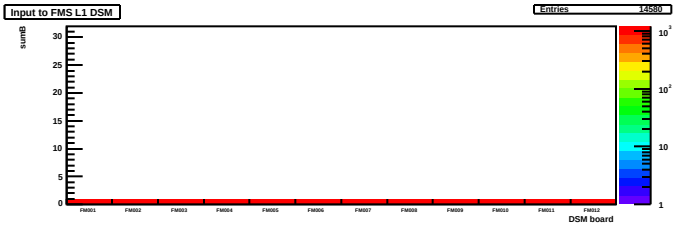

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

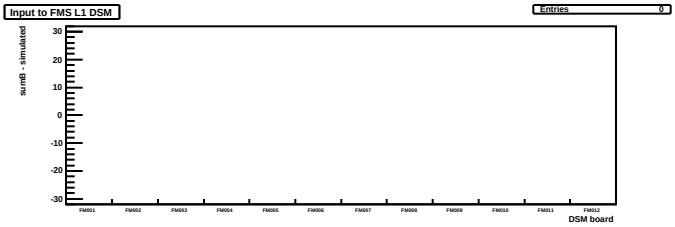

Input to FMS L1 DSM
Entries 14580
sumC
DSM board

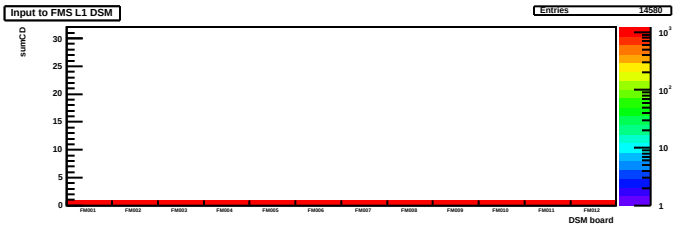

Input to FMS L1 DSM
Entries 1215
sumC - simulated
DSM board

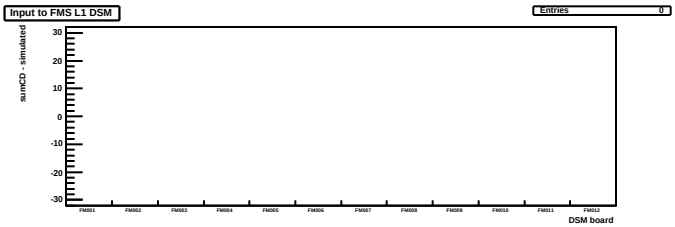

Input to FMS L1 DSM
Entries 14580
sumBC
DSM board

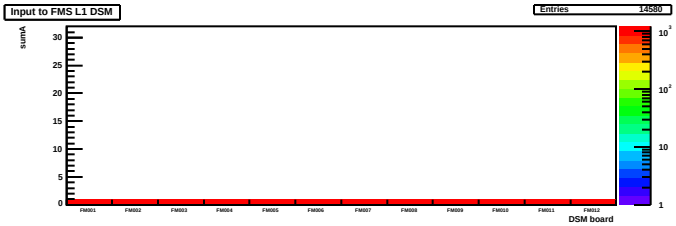

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

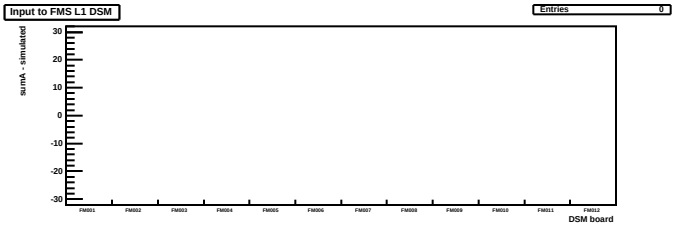

Input to FMS L1 DSM
Entries 14580
sumB
DSM board

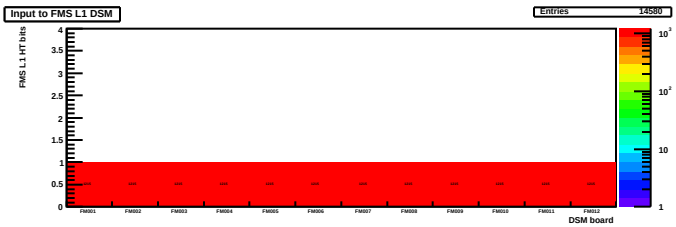

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

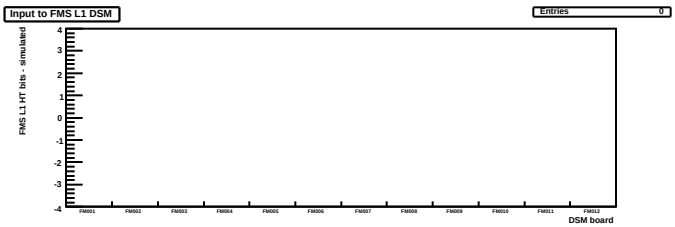

Input to FMS L1 DSM
Entries 14580
sumCD
DSM board

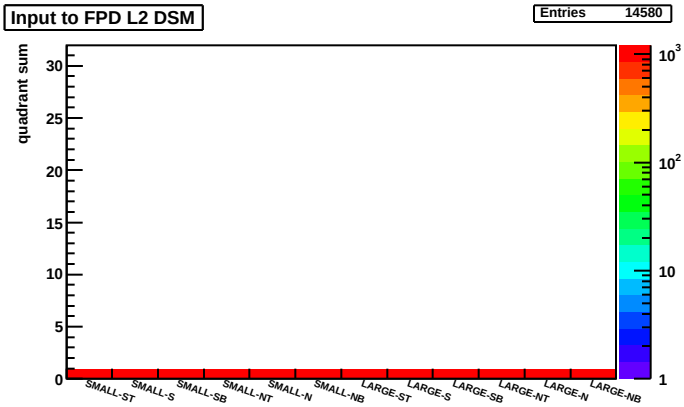

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

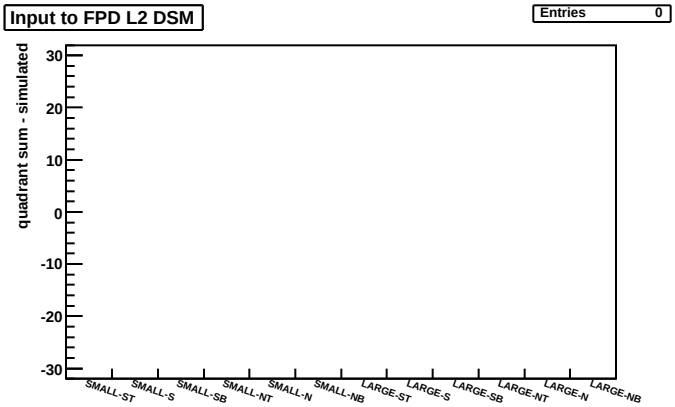

Input to FMS L1 DSM
Entries 14580
sumA
DSM board

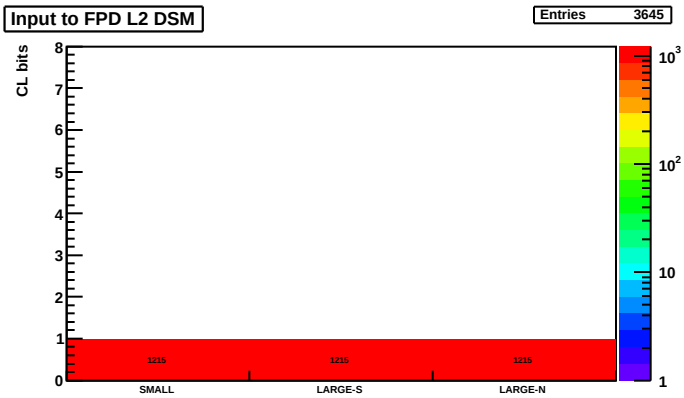

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

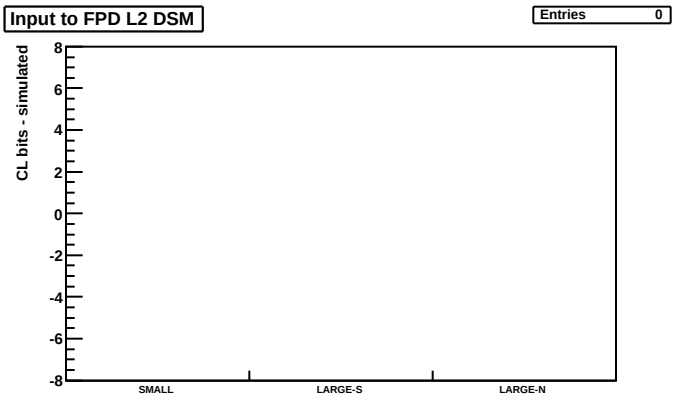

Input to FMS L1 DSM
Entries 14580
FMS L1 HT bits
DSM board

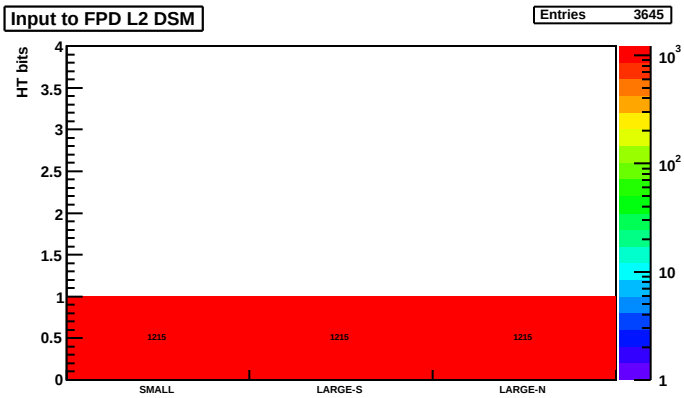

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

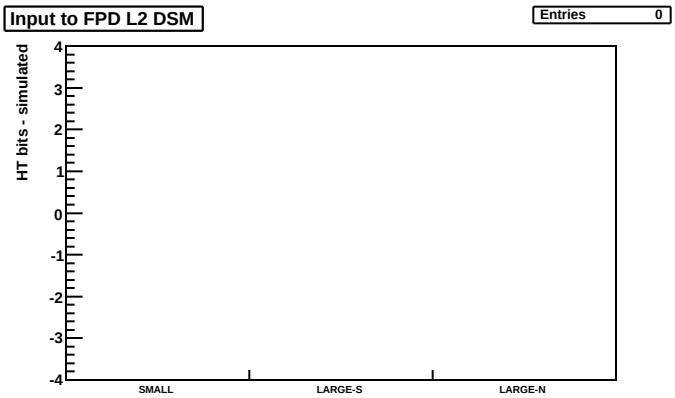

Input to FPD L2 DSM
Entries 14580
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

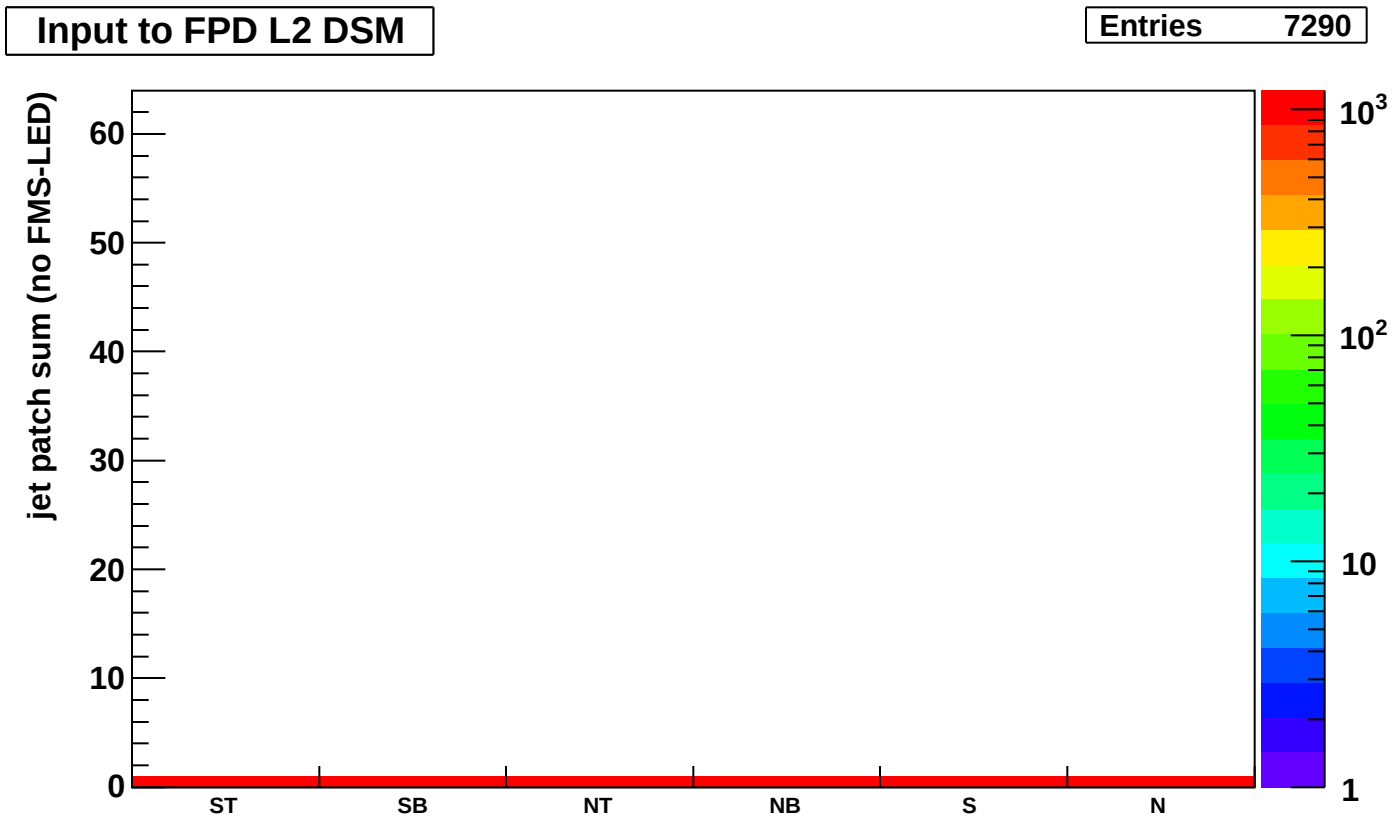

Input to FPD L2 DSM
Entries 0
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

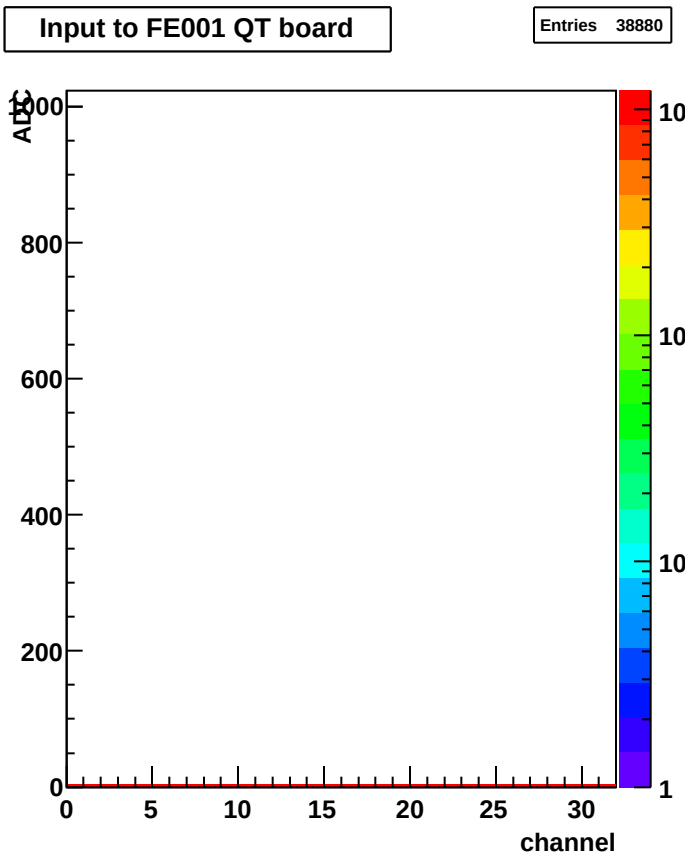

Input to FPD L2 DSM
Entries 3645
CL bits
1215
1215
1215
SMALL
LARGE-S
LARGE-N

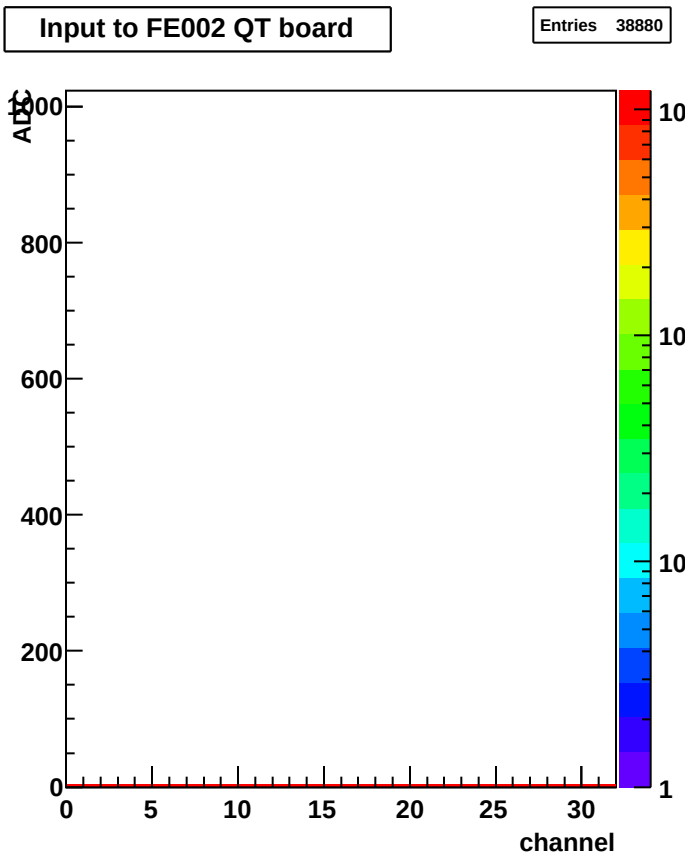

Input to FPD L2 DSM
Entries 0
CL bits - simulated
SMALL
LARGE-S
LARGE-N

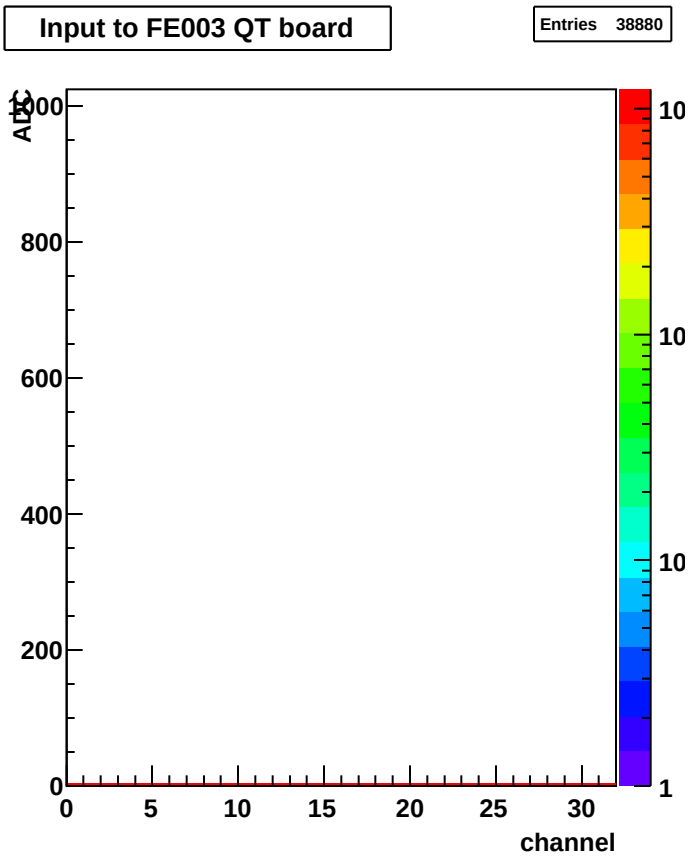

Input to FPD L2 DSM
Entries 3645
HT bits
1215
1215
1215
SMALL
LARGE-S
LARGE-N

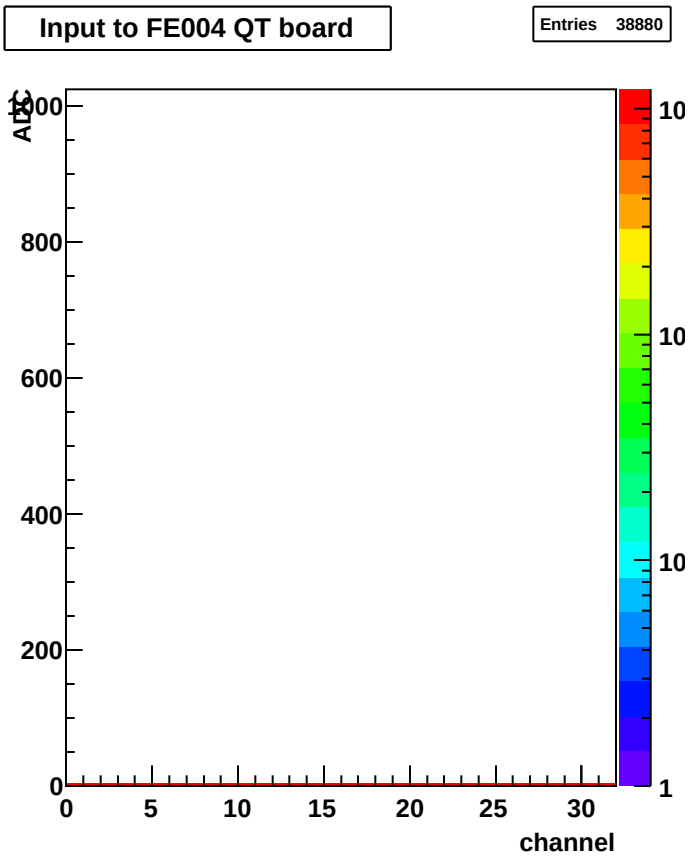

Input to FPD L2 DSM
Entries 0
HT bits - simulated
SMALL
LARGE-S
LARGE-N

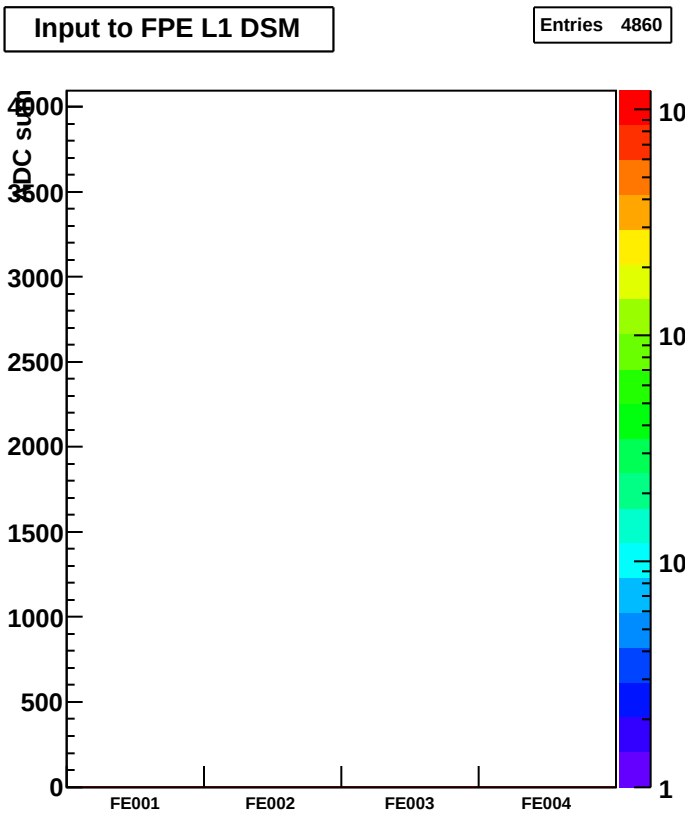

Input to FPD L2 DSM
Entries 7290
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3

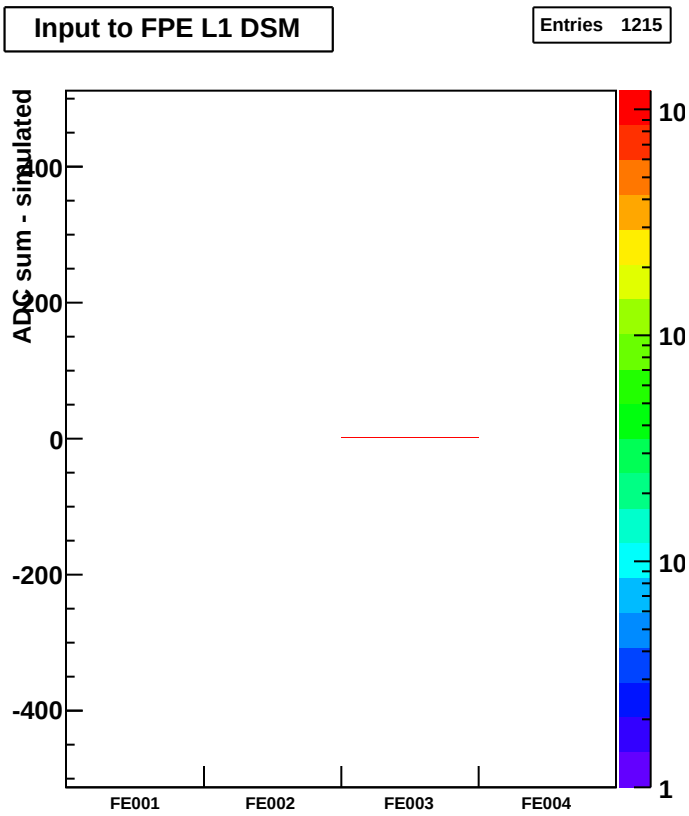

Input to FE001 QT board
Entries 38880
ADC
channel

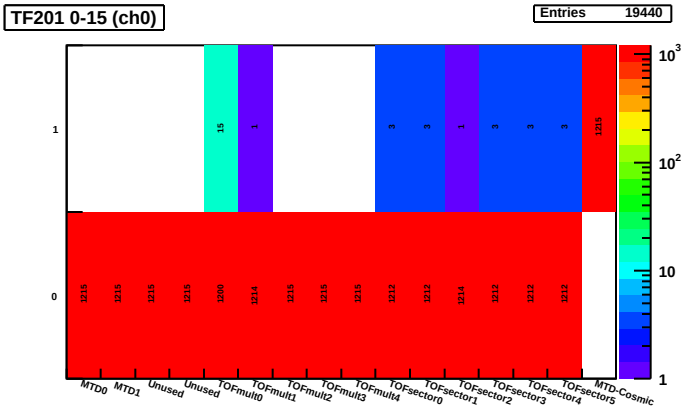

Input to FE002 QT board
Entries 38880
ADC
channel

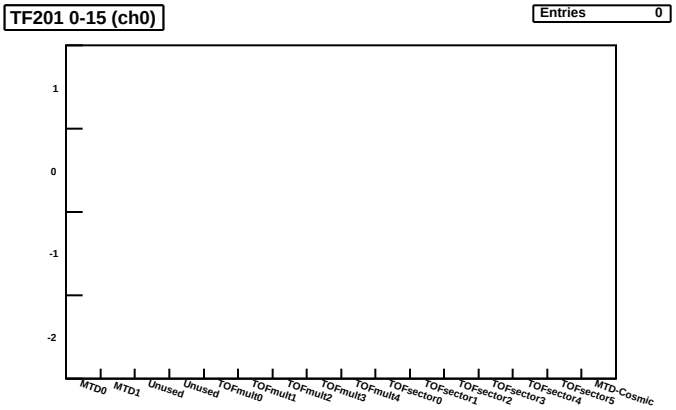

Input to FE003 QT board
Entries 38880
ADC
channel

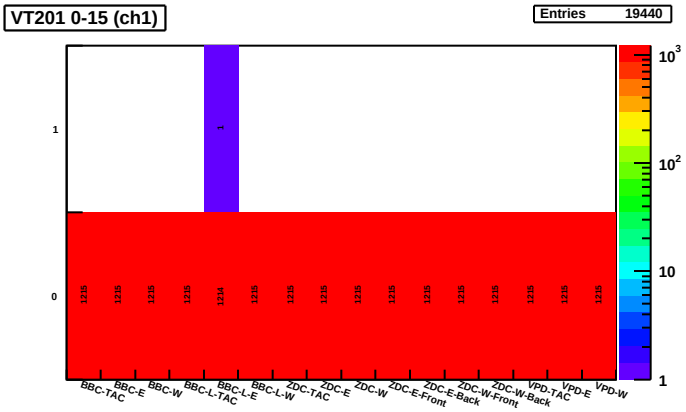

Input to FE004 QT board
Entries 38880
ADC
channel

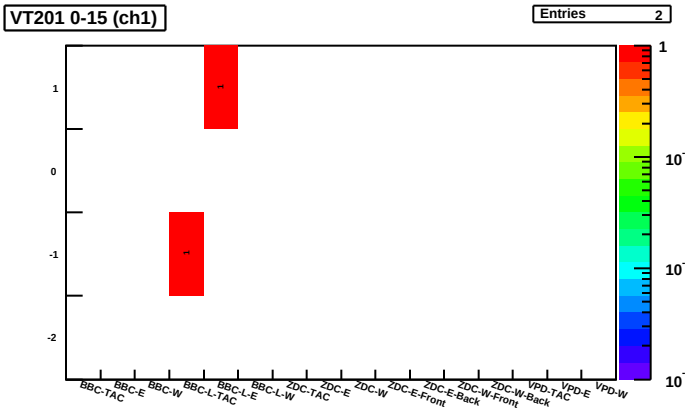

Input to FPE L1 DSM
Entries 4860
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
1

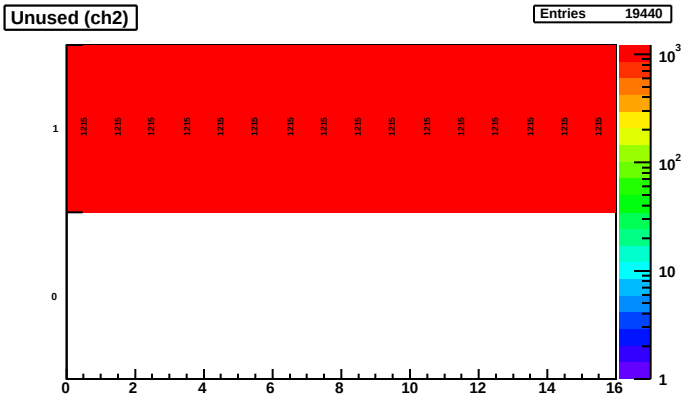

Input to FPE L1 DSM
Entries 1215
ADC sum - simulated
0
-200
-400
FE001
FE002
FE003
FE004
10
10
10
1

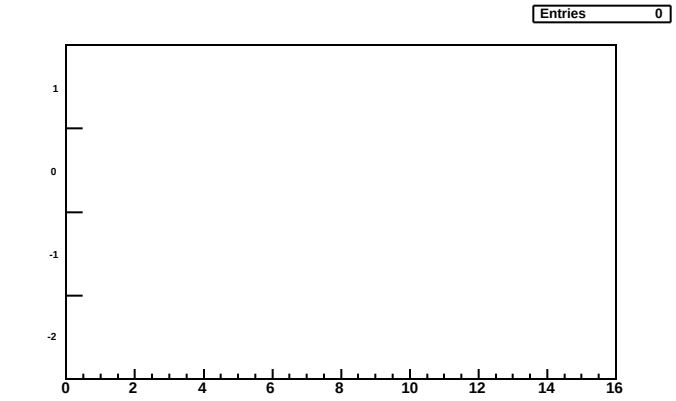

TF201 0-15 (ch0)
Entries 19440
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

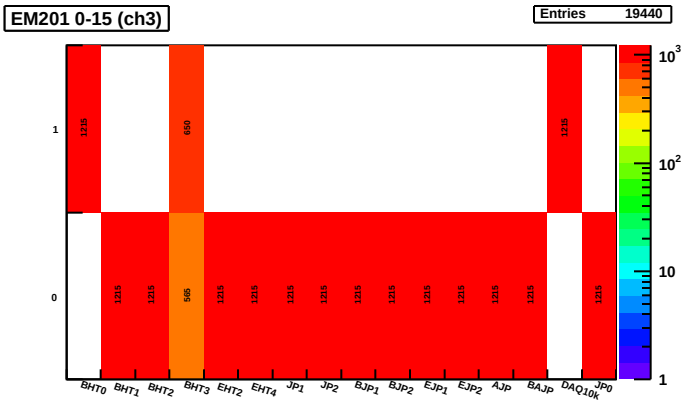

TF201 0-15 (ch0)
Entries 0
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

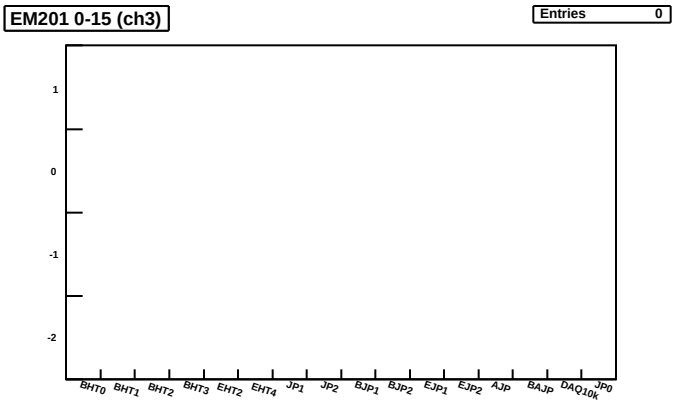

VT201 0-15 (ch1)
Entries 19440
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

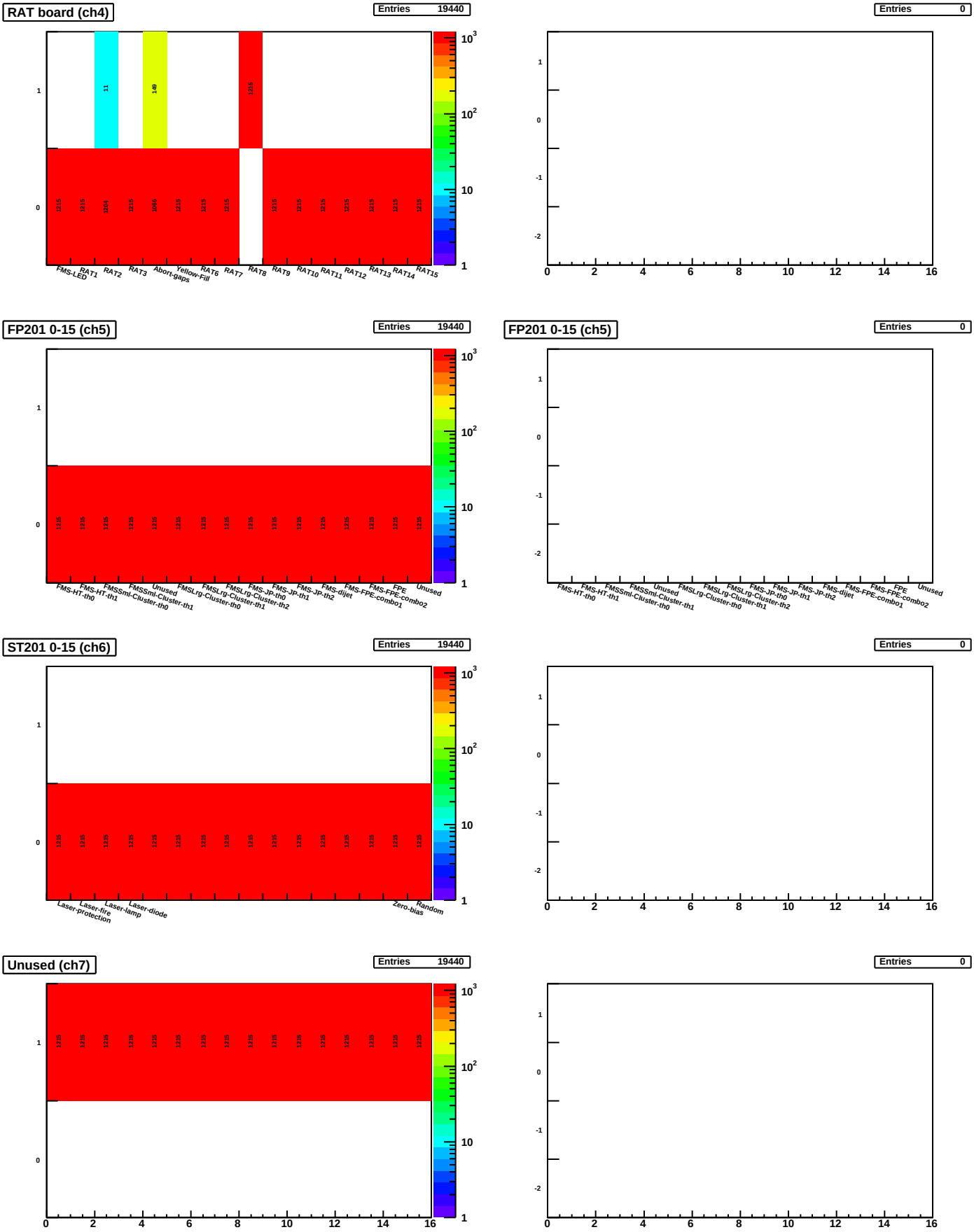

VT201 0-15 (ch1)
Entries 2
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 19440


Entries 0


EM201 0-15 (ch3)
Entries 19440
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0


EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0


RAT board (ch4)
Entries 19440
Entries 0
FP201 0-15 (ch5)
Entries 19440
FP201 0-15 (ch5)
Entries 0
ST201 0-15 (ch6)
Entries 19440
Entries 0
Unused (ch7)
Entries 19440
Entries 0
FMS-LED
RAT1
RAT2
RAT3
Abort-gaps
Yellow-Fill
RAT6
RAT7
RAT8
RAT9
RAT10
RAT11
RAT12
RAT13
RAT14
RAT15
FMS-HT-th0
FMS-HT-th1
FMSSml-Cluster-th0
FMSSml-Cluster-th1
Unused
FMSLrg-Cluster-th0
FMSLrg-Cluster-th1
FMS-JP-th0
FMS-JP-th1
FMS-JP-th2
FMS-diJet
FMS-FPE-combo1
FPE
FMS-FPE-combo2
Unused
Laser-protection
Laser-fire
Laser-lamp
Laser-diode
Zero-bias
Random