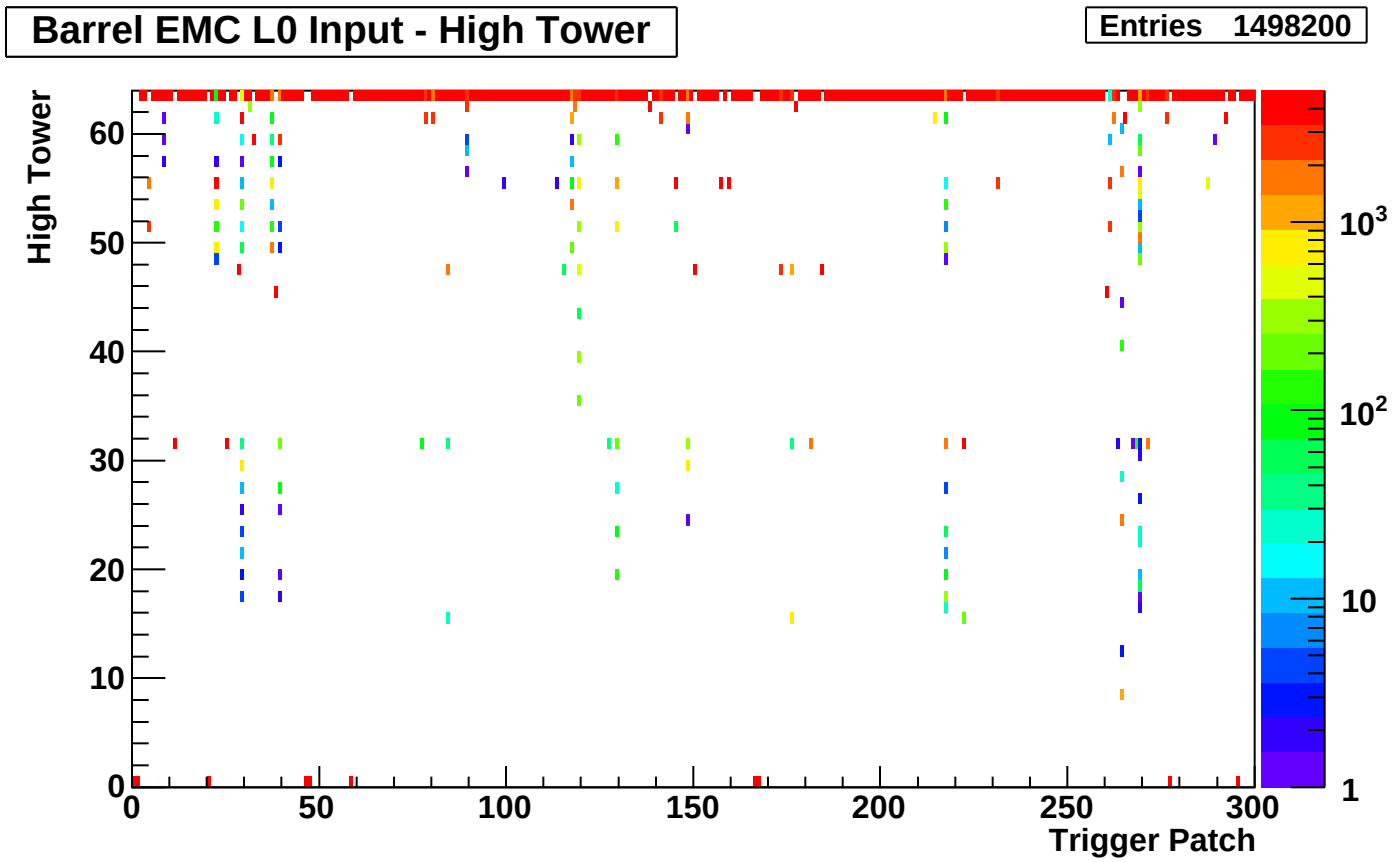
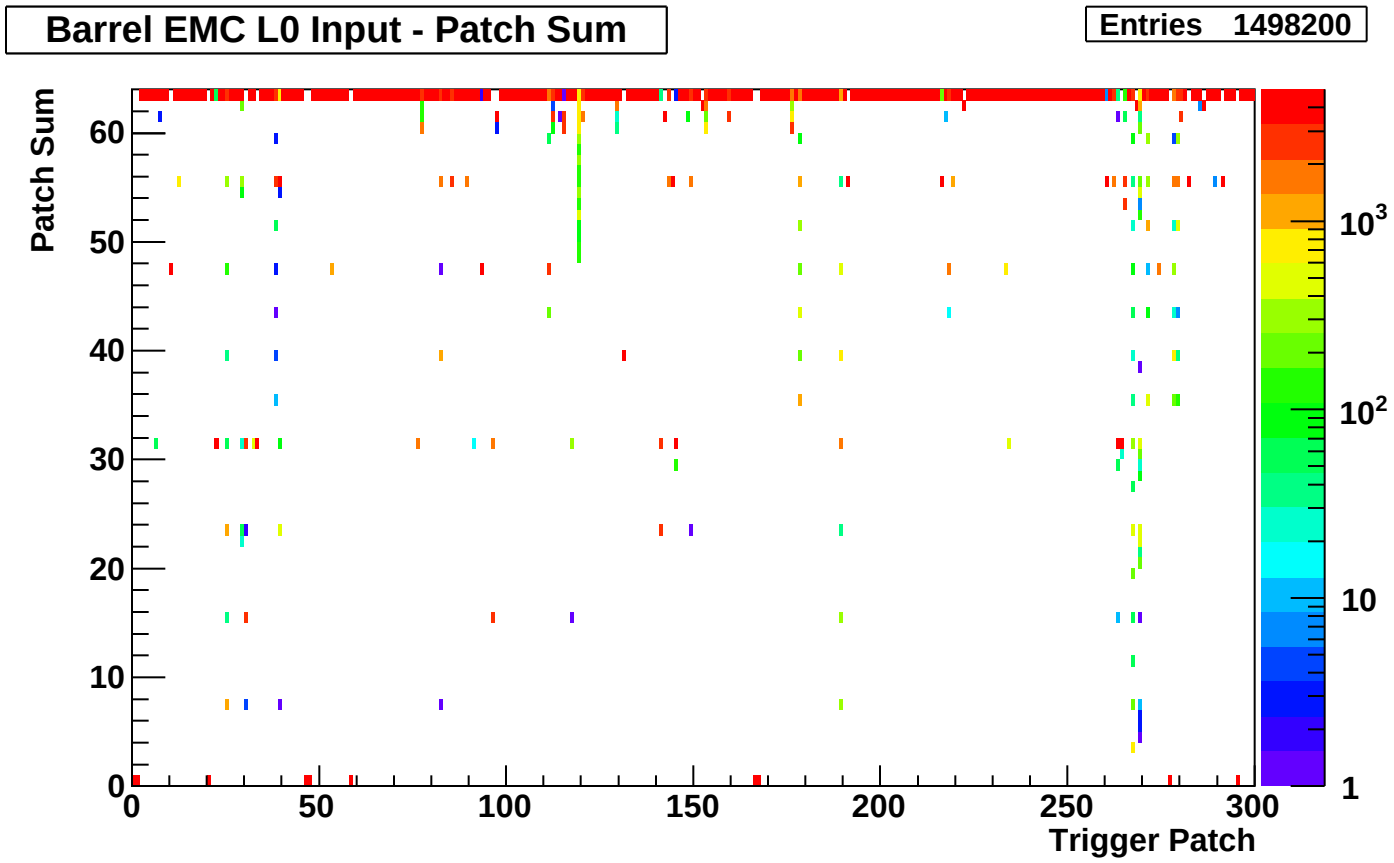
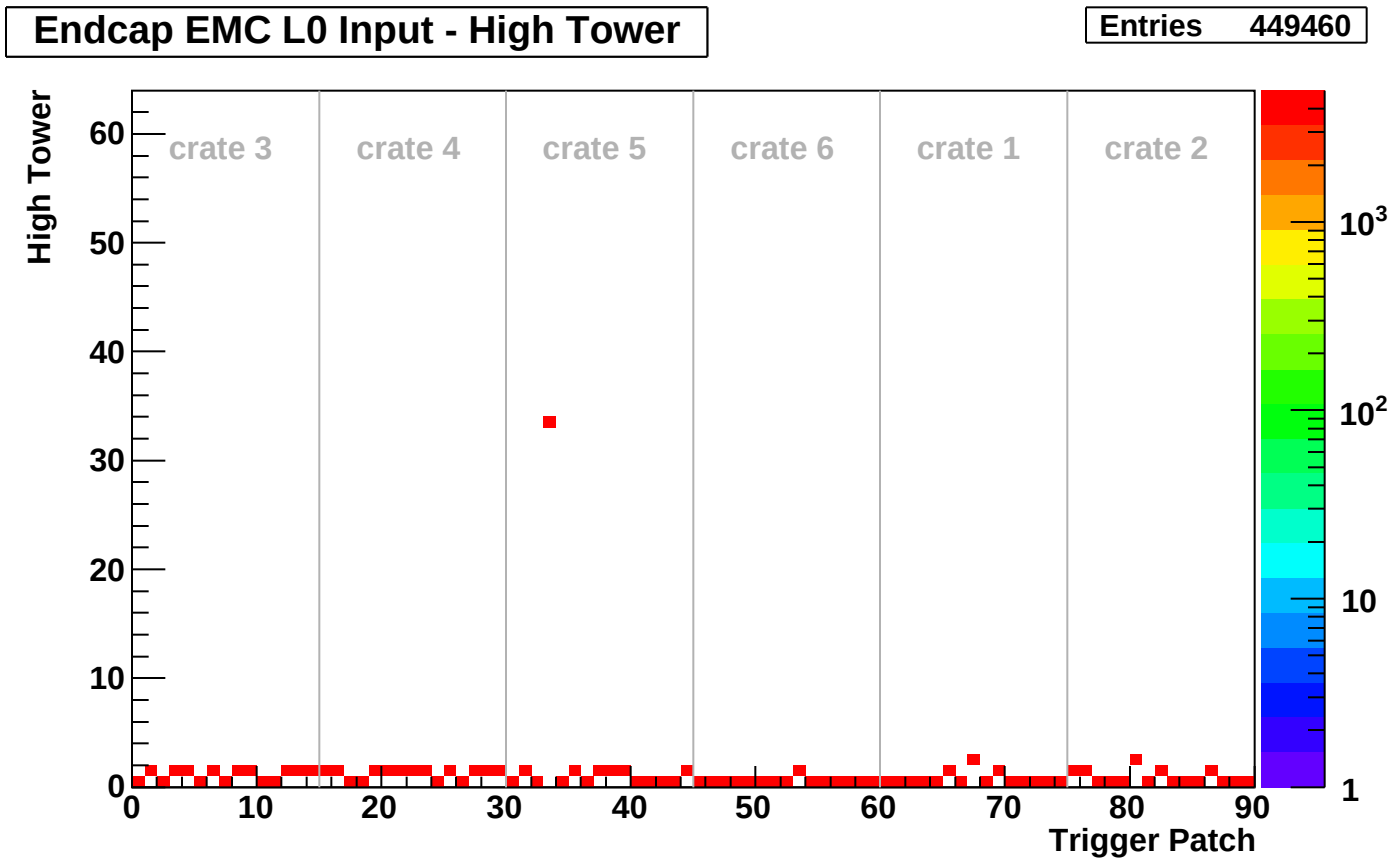
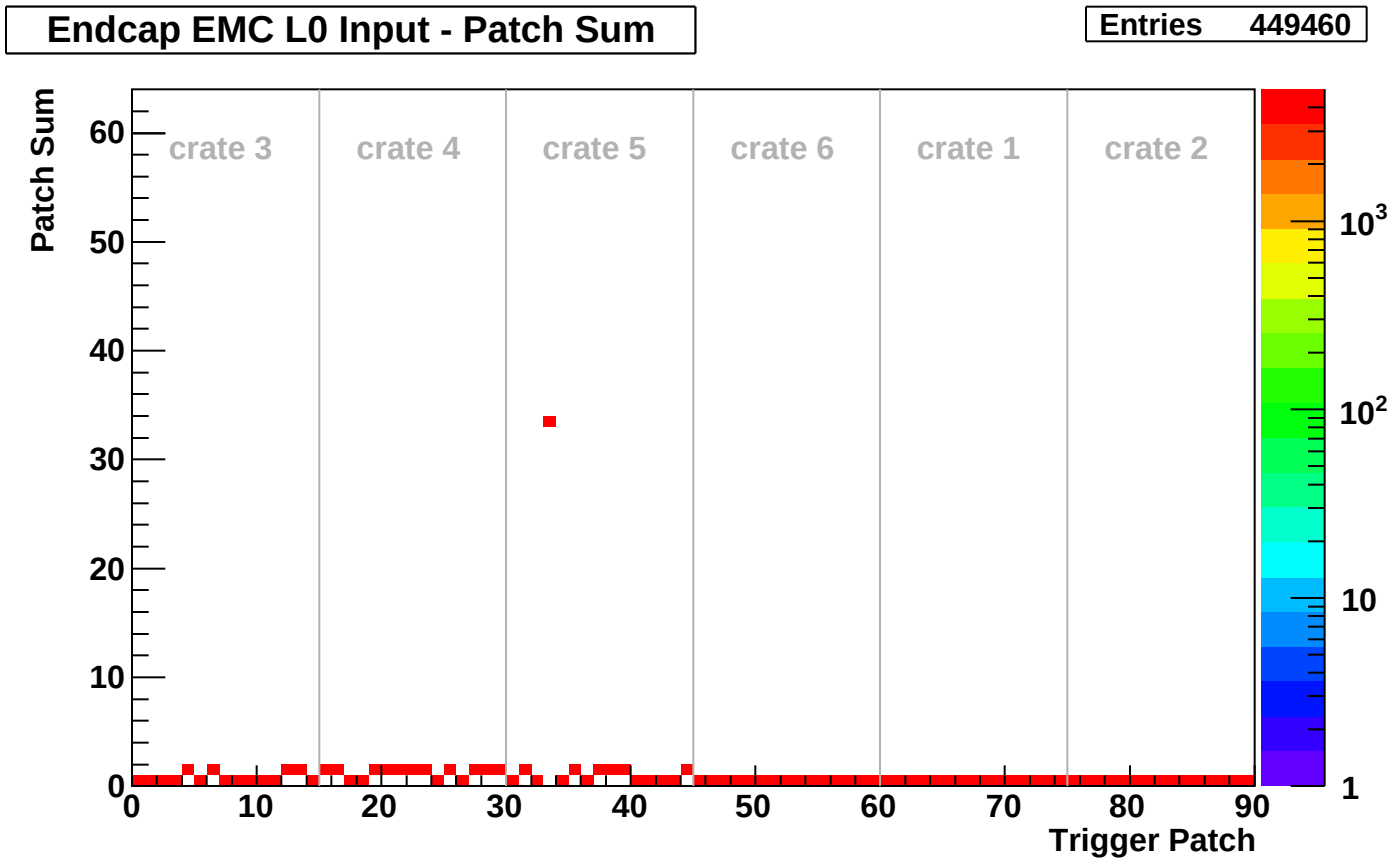
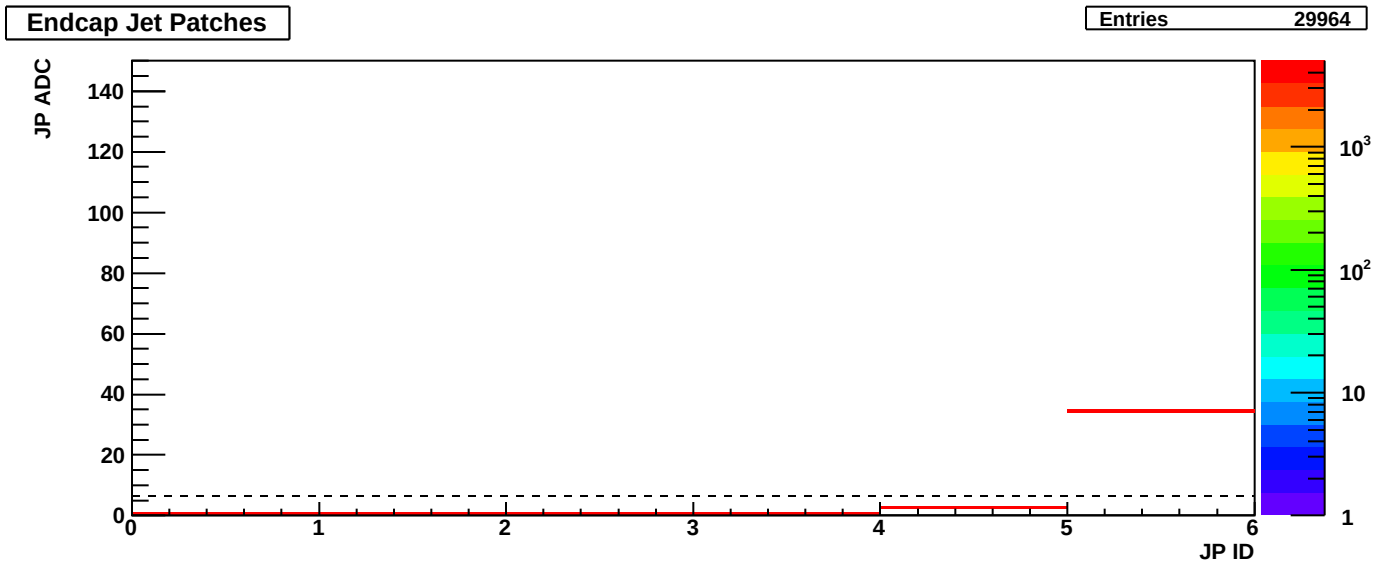
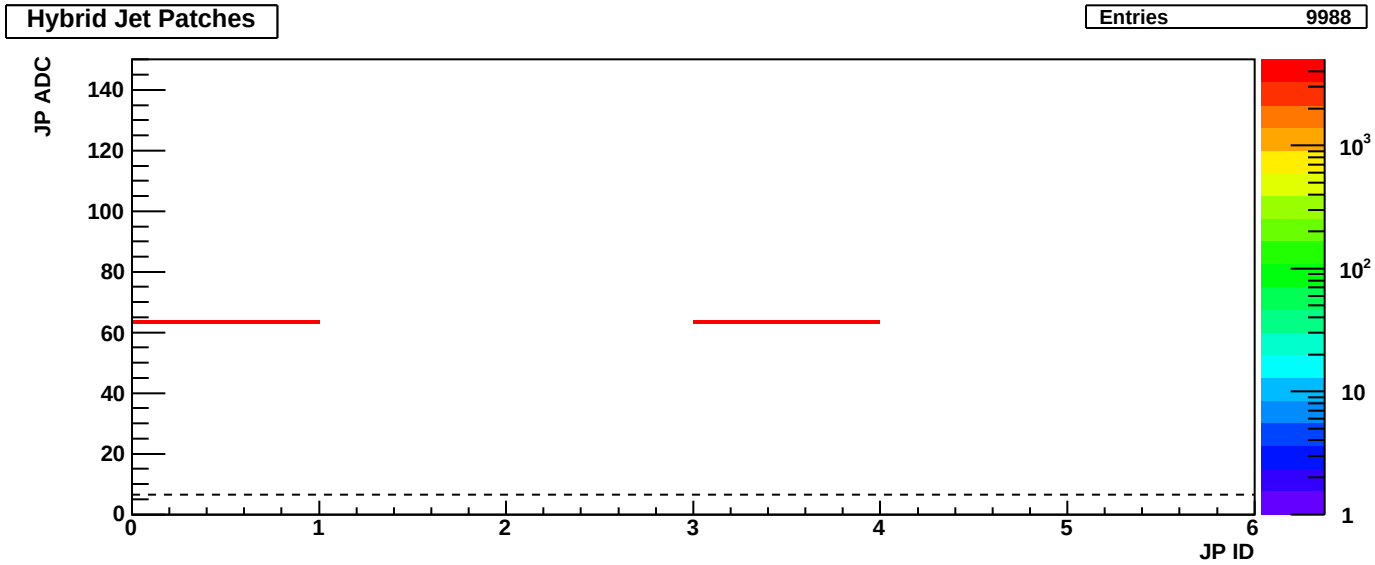

Barrel EMC L0 Input - High Tower
Entries 1498200
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3

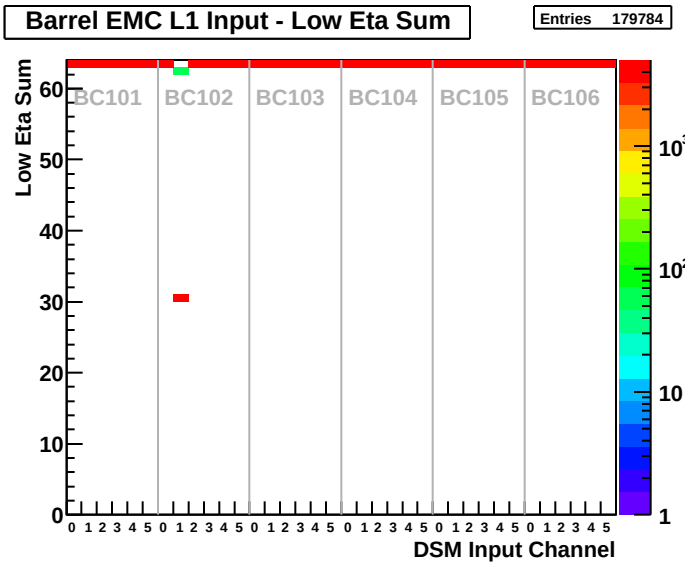

Barrel EMC L0 Input - Patch Sum
Entries 1498200
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3

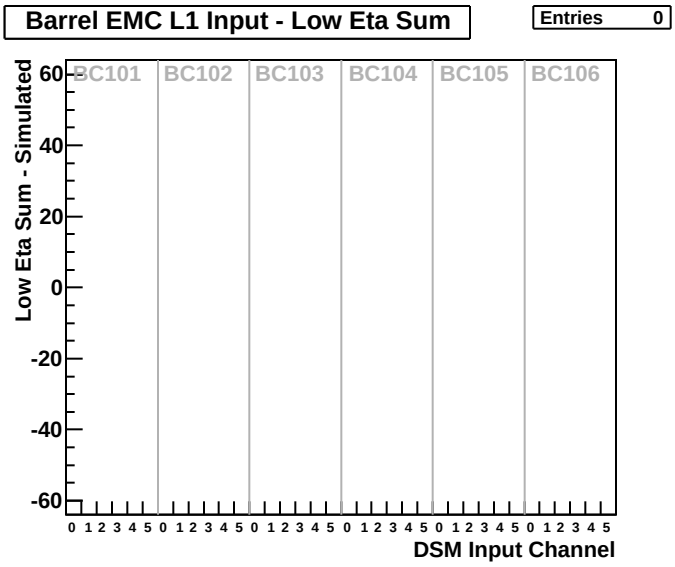

Endcap EMC L0 Input - High Tower
Entries 449460
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

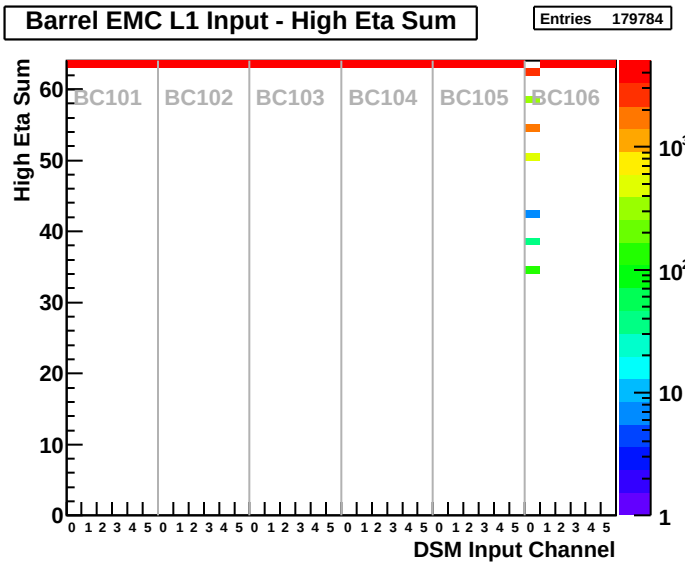

Endcap EMC L0 Input - Patch Sum
Entries 449460
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

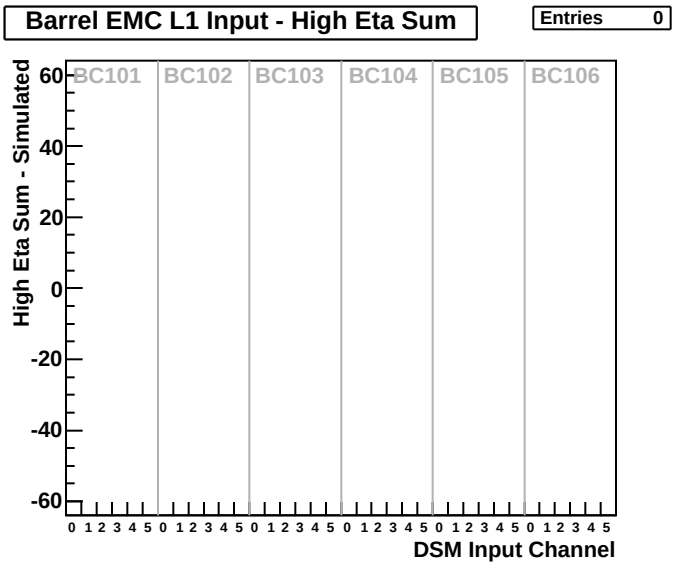

Endcap Jet Patches
Entries 29964
JP ADC
JP ID

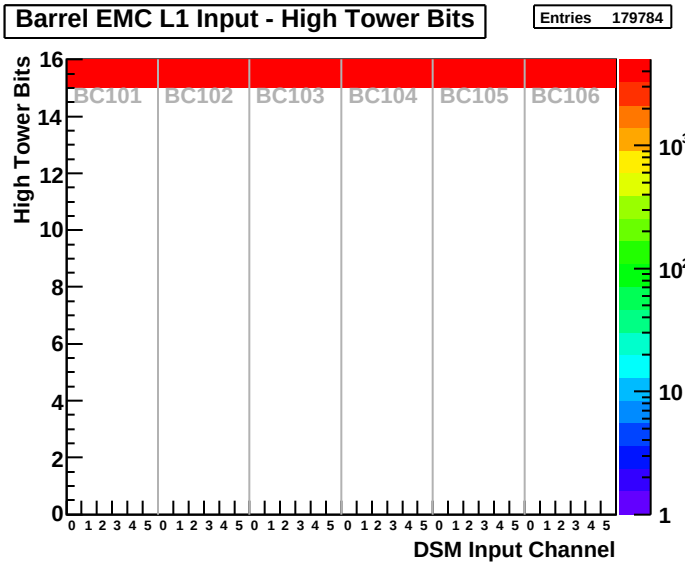

Hybrid Jet Patches
Entries 9988
JP ADC
JP ID

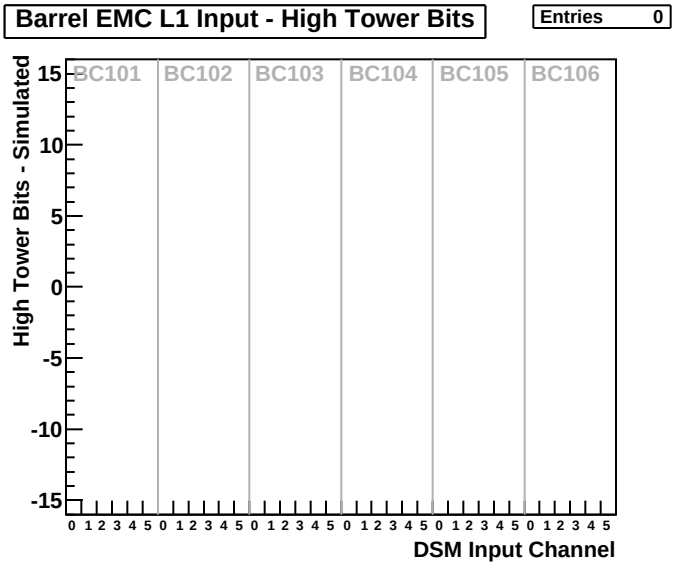

Barrel EMC L1 Input - Low Eta Sum
Entries 179784
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

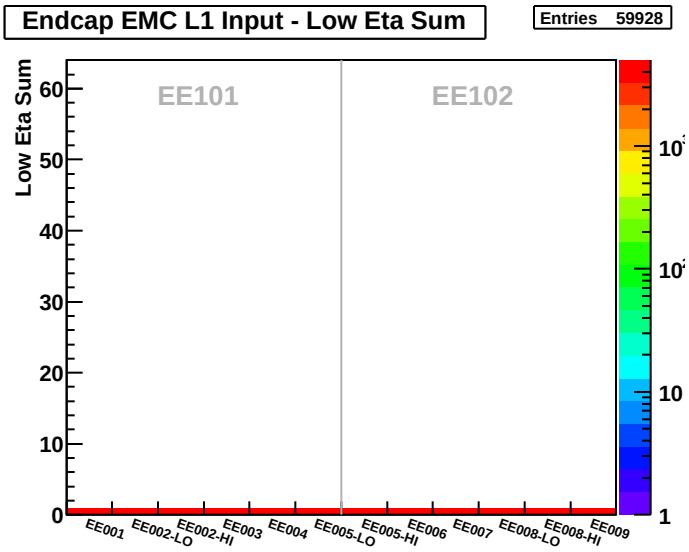

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

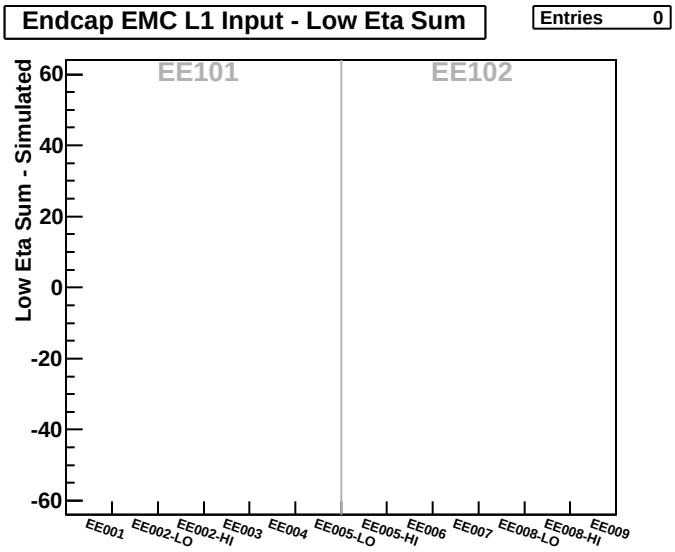

Barrel EMC L1 Input - High Eta Sum
Entries 179784
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

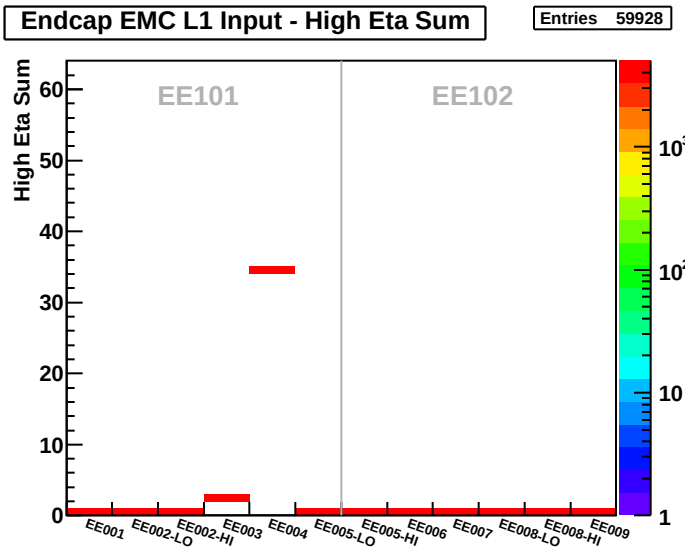

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

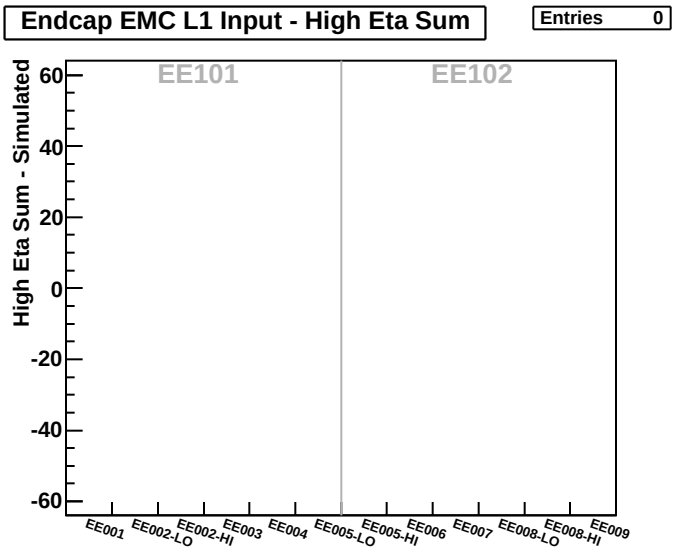

Barrel EMC L1 Input - High Tower Bits
Entries 179784
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

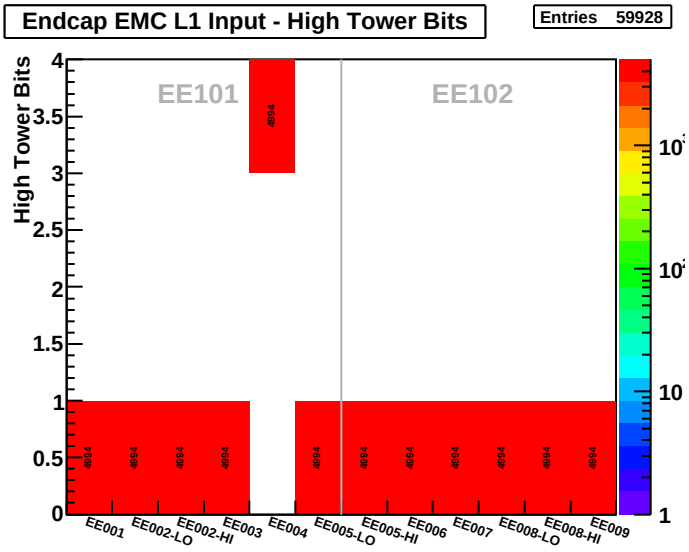

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

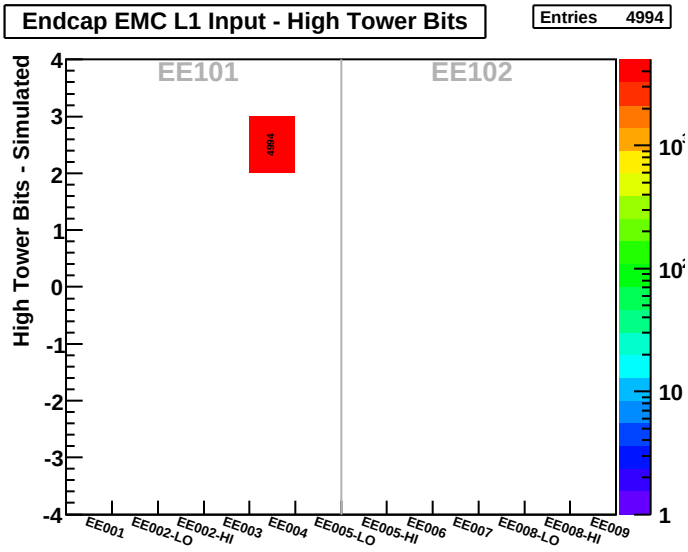

Endcap EMC L1 Input - Low Eta Sum
Entries 59928
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

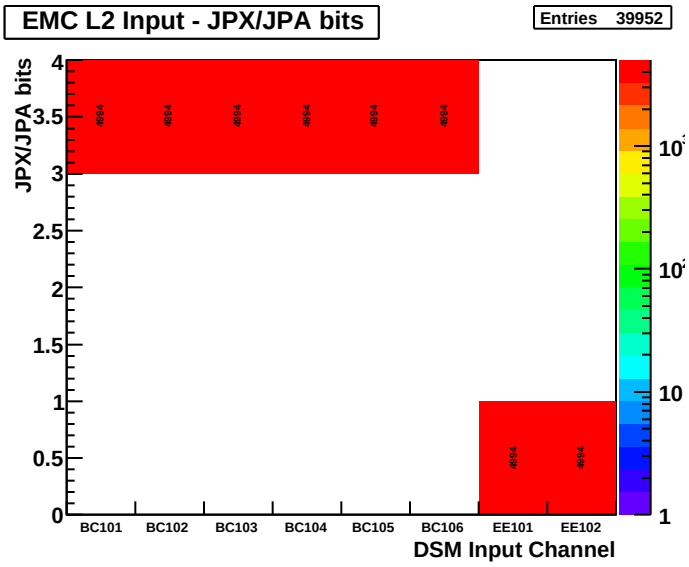

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

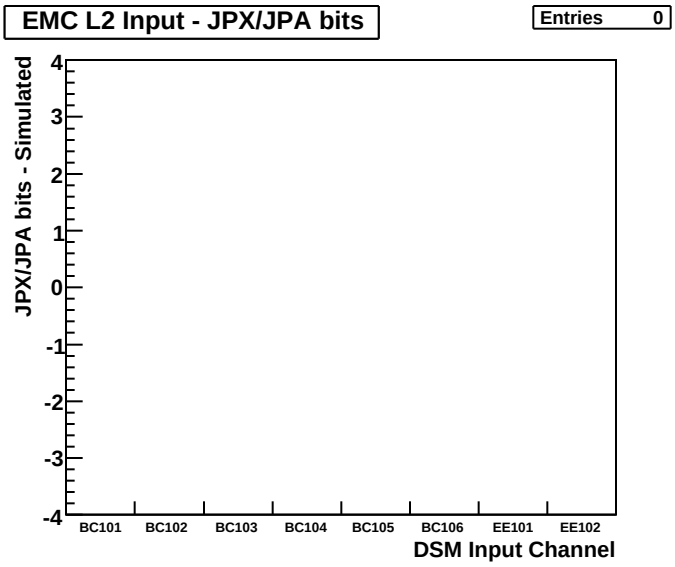

Endcap EMC L1 Input - High Eta Sum
Entries 59928
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

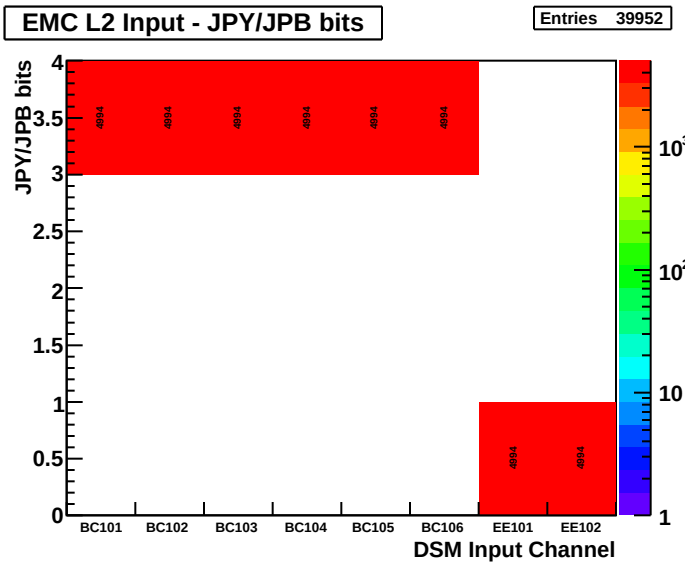

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

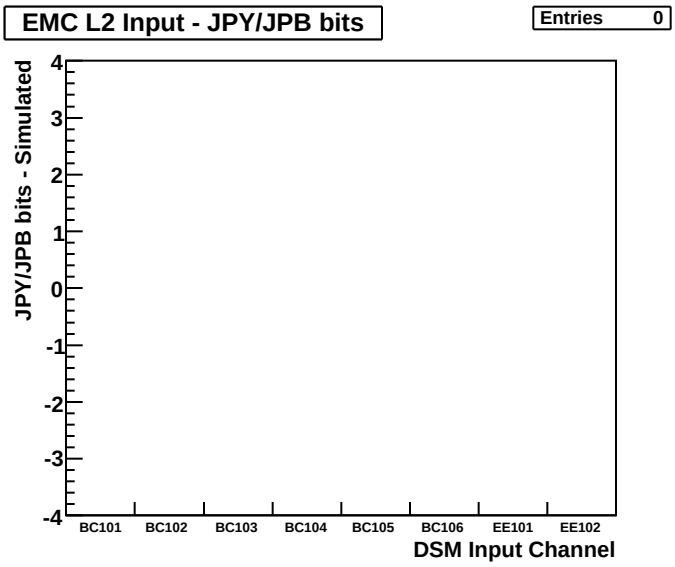

Endcap EMC L1 Input - High Tower Bits
Entries 59928
High Tower Bits
EE101
EE102
4994
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

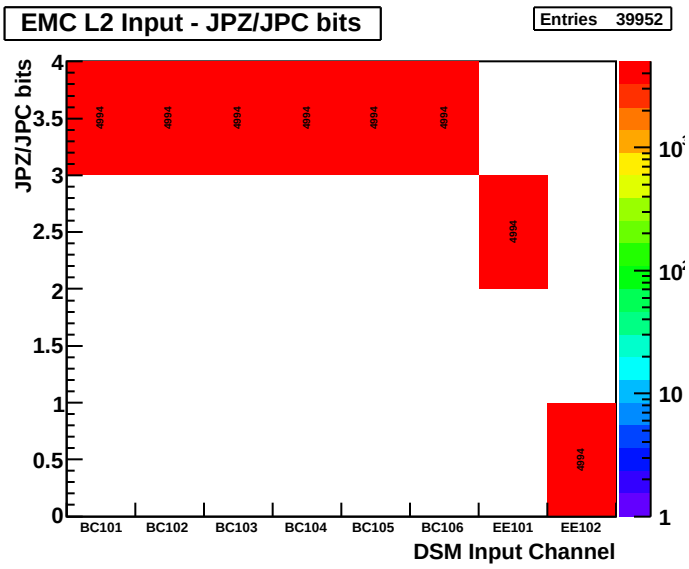

Endcap EMC L1 Input - High Tower Bits
Entries 4994
High Tower Bits - Simulated
EE101
EE102
4994
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

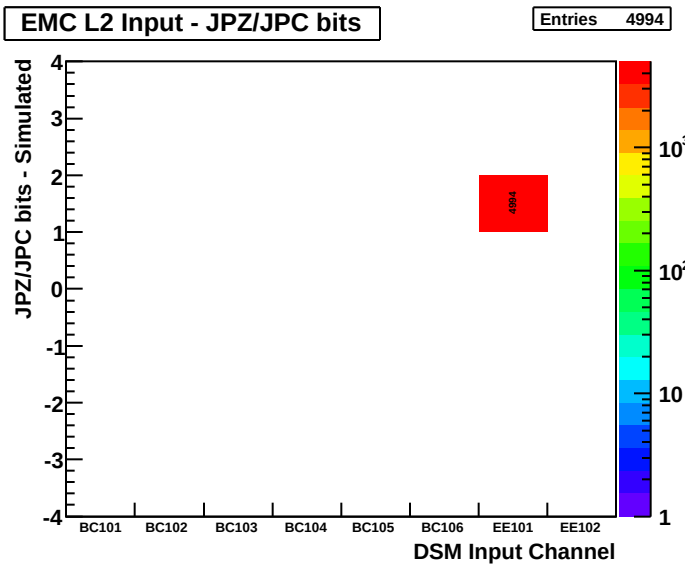

EMC L2 Input - JPX/JPA bits
Entries 39952
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
4994

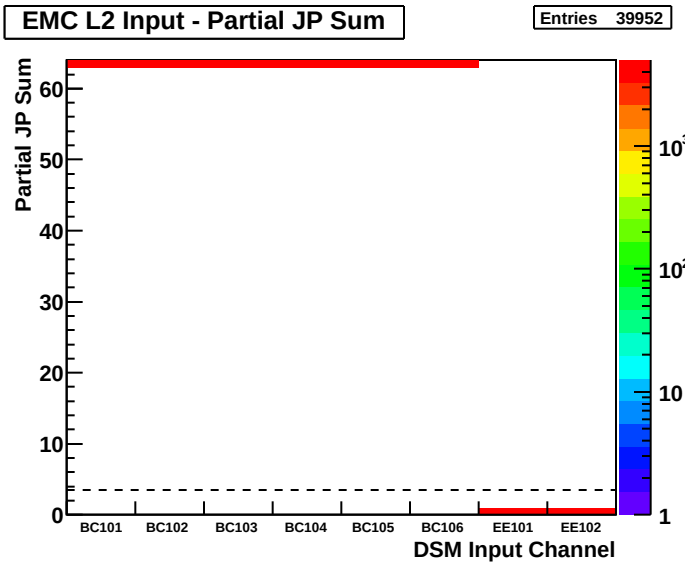

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

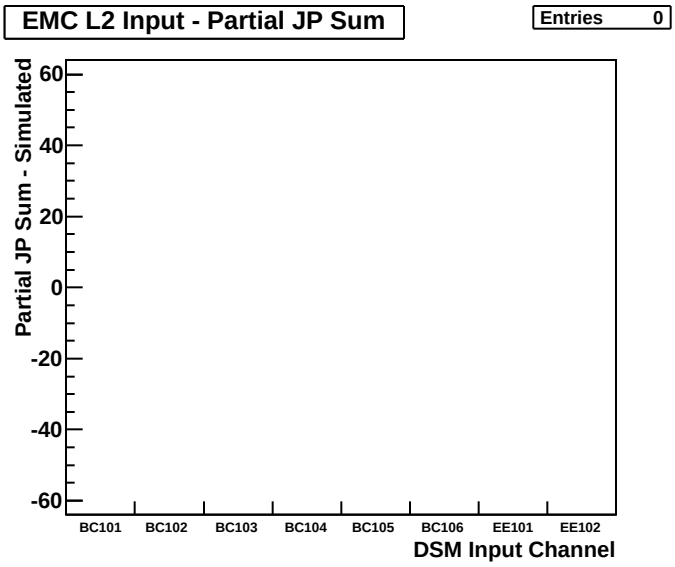

EMC L2 Input - JPY/JPB bits
Entries 39952
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
4994

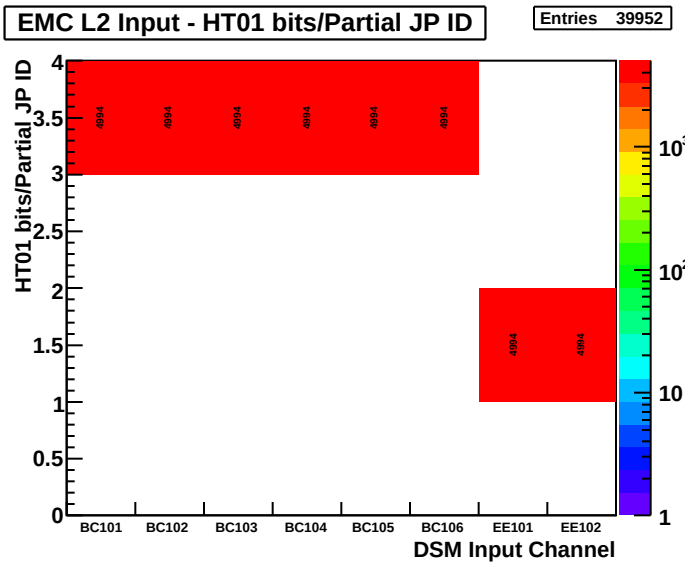

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

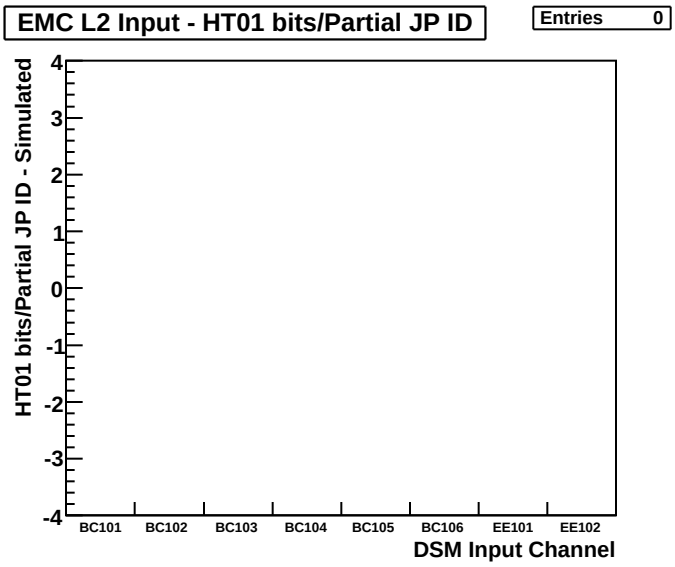

EMC L2 Input - JPZ/JPC bits
Entries 39952
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
4994

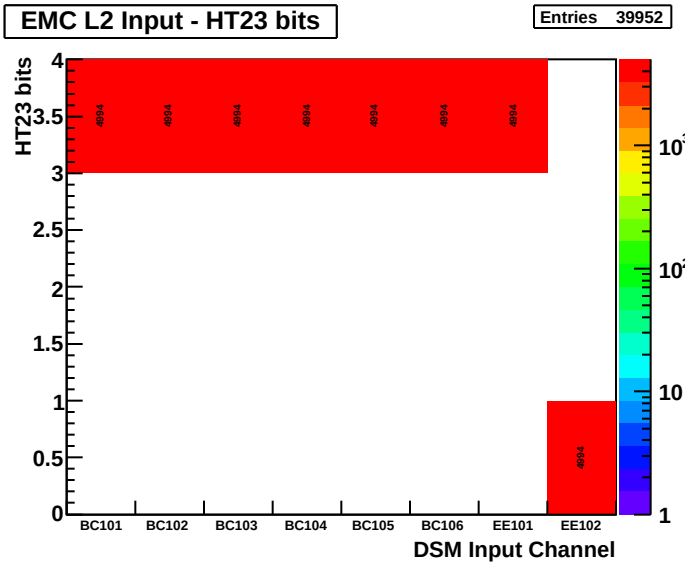

EMC L2 Input - JPZ/JPC bits
Entries 4994
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
4994

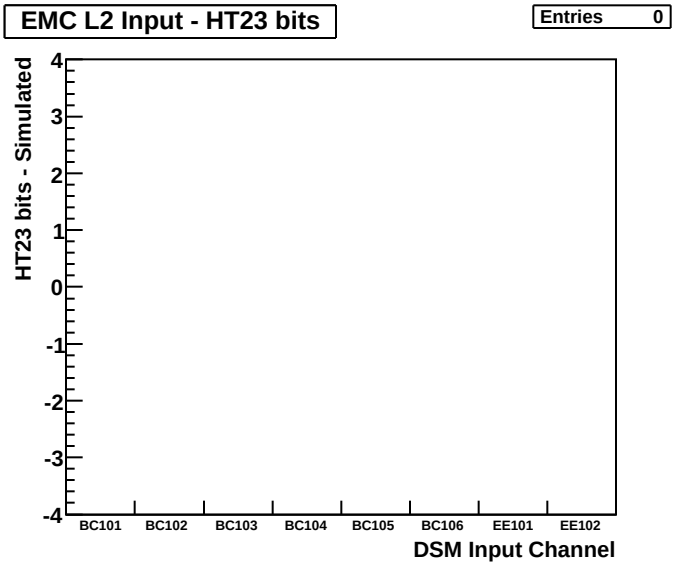

EMC L2 Input - Partial JP Sum
Entries 39952
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

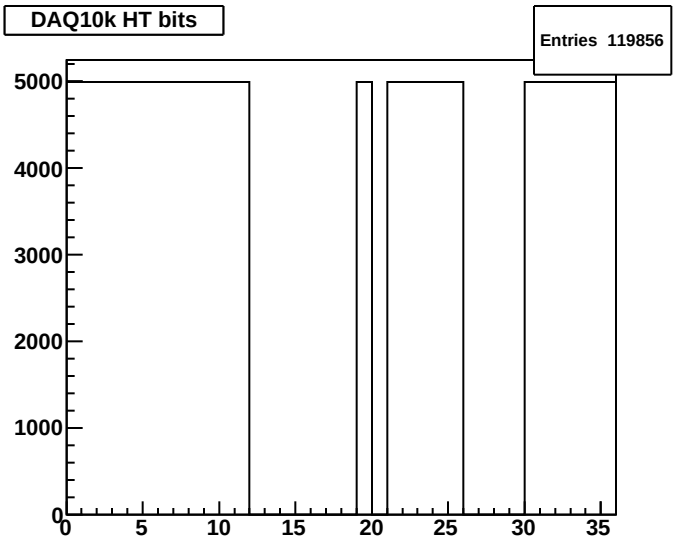

EMC L2 Input - Partial JP Sum
Entries 0
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

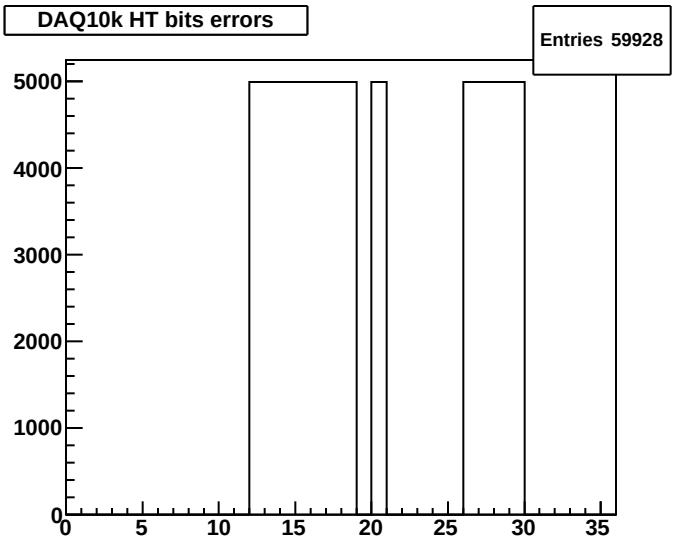

EMC L2 Input - HT01 bits/Partial JP ID
Entries 39952
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

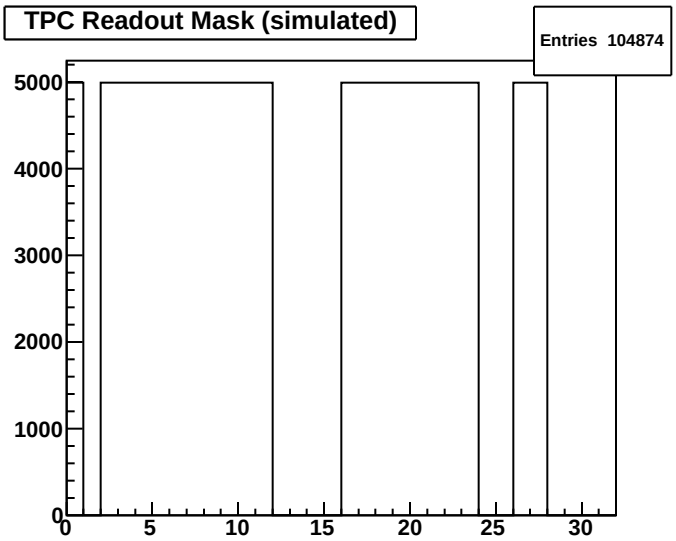

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

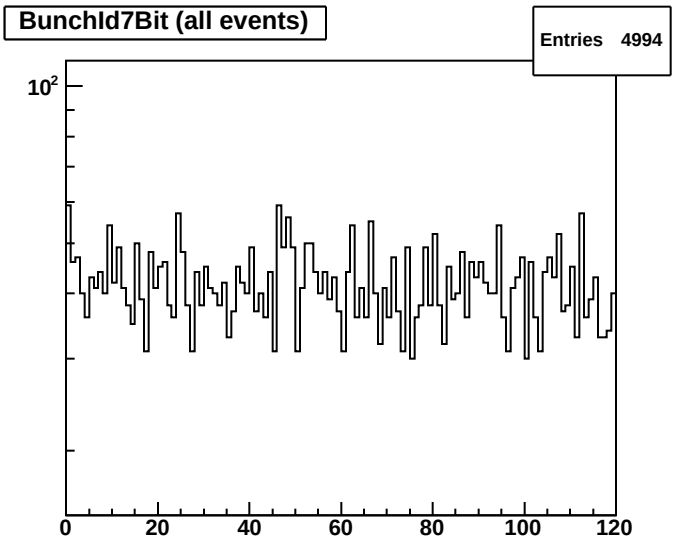

EMC L2 Input - HT23 bits
Entries 39952
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

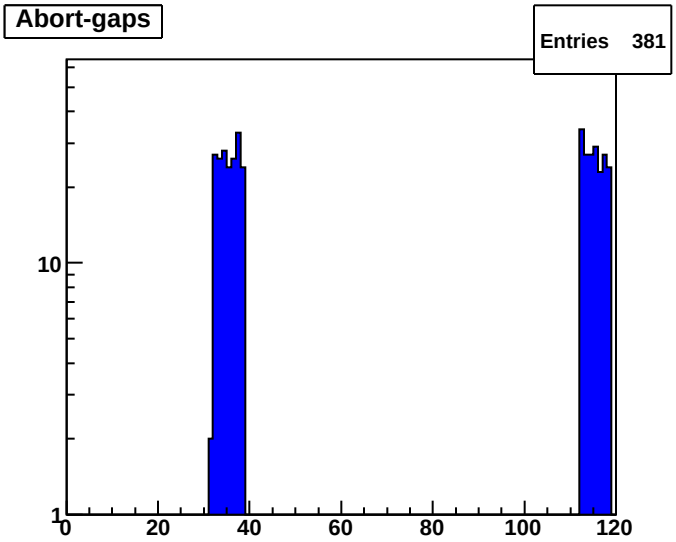

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

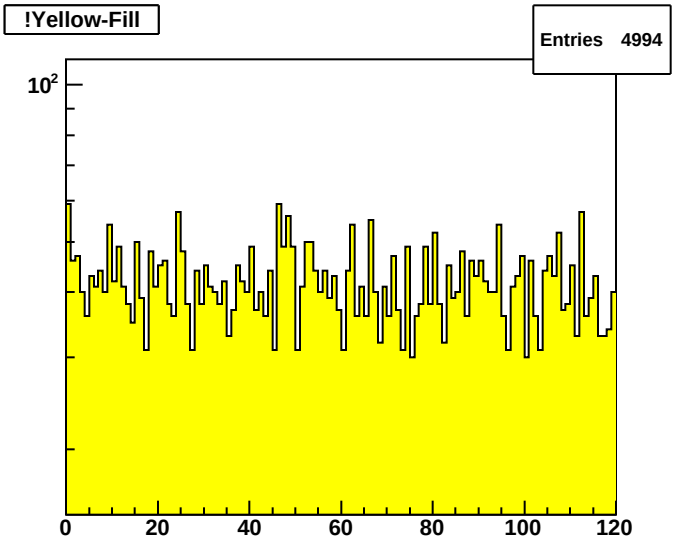

DAQ10k HT bits
Entries 119856
5000
4000
3000
2000
1000
0
0 5 10 15 20 25 30 35

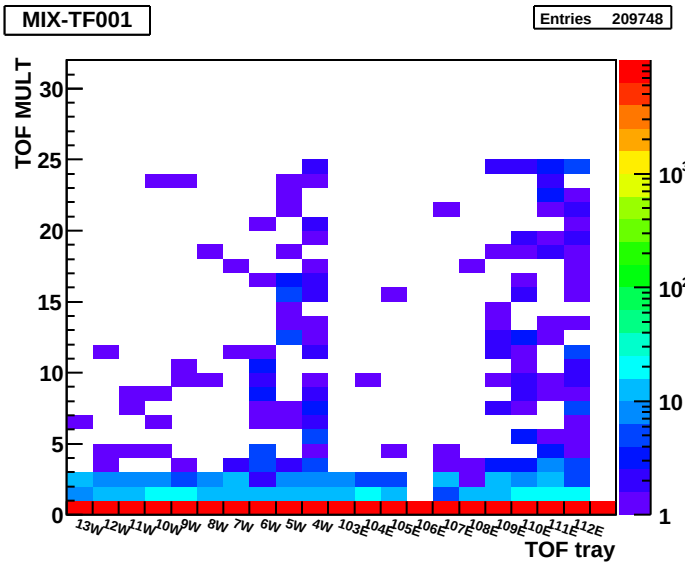

DAQ10k HT bits errors
Entries 59928
5000
4000
3000
2000
1000
0
0 5 10 15 20 25 30 35

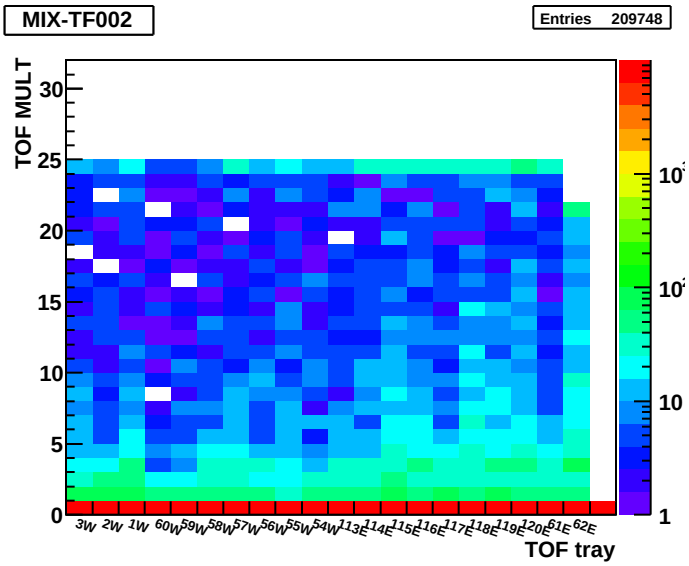

TPC Readout Mask (simulated)
Entries 104874
5000
4000
3000
2000
1000
0
0 5 10 15 20 25 30

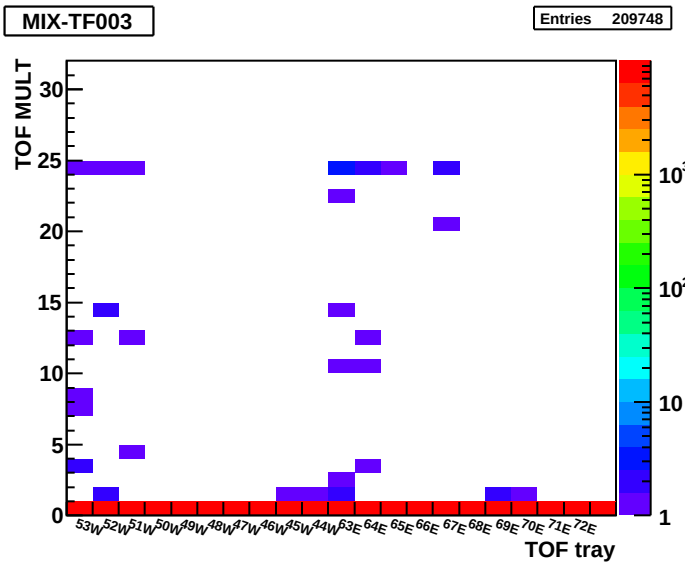

BunchId7Bit (all events)
Entries 4994
10^2
0 20 40 60 80 100 120

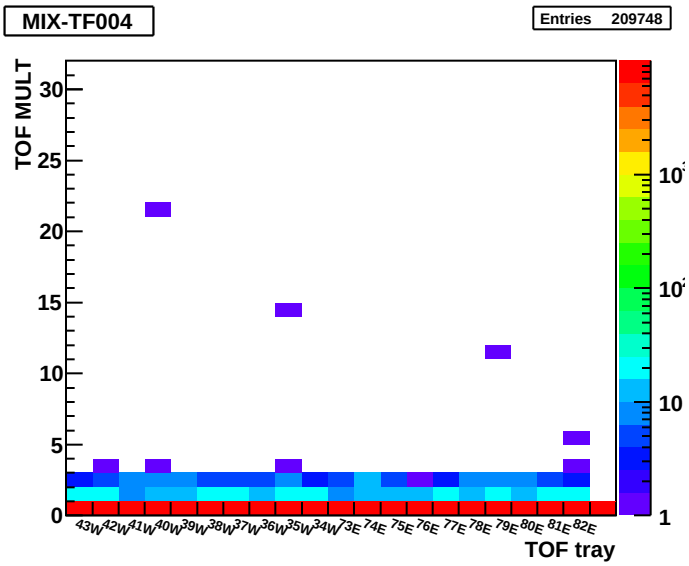

Abort-gaps
Entries 381
10
1
0 20 40 60 80 100 120

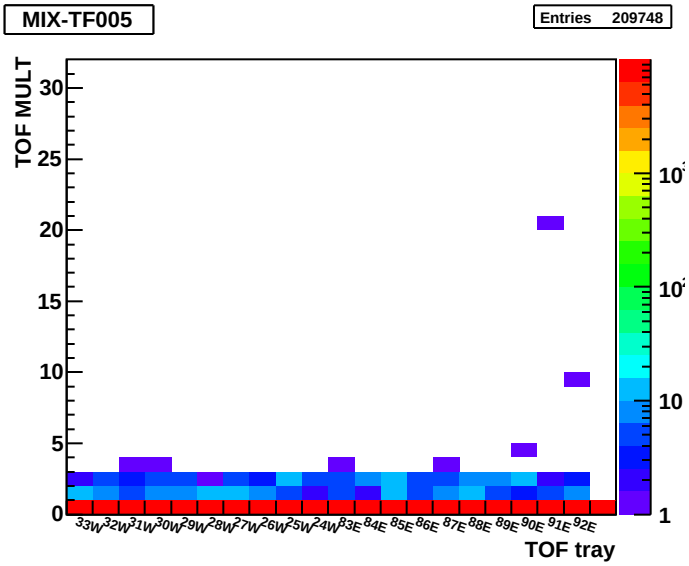

!Yellow-Fill
Entries 4994
10^2
0 20 40 60 80 100 120

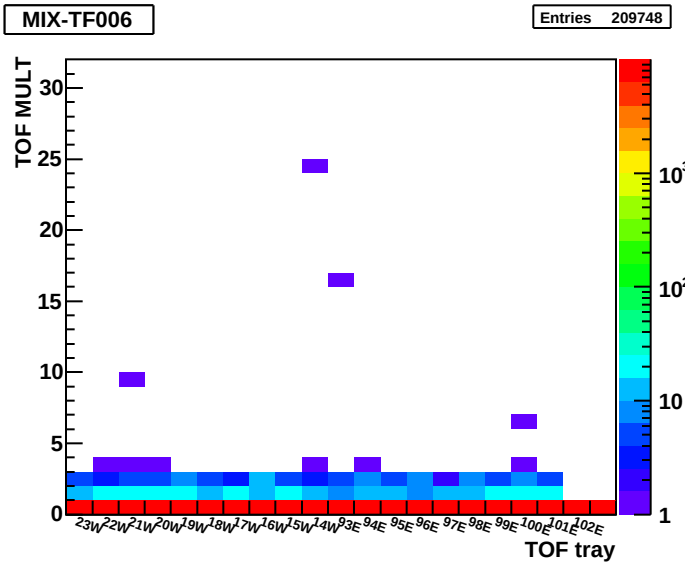

MIX-TF001
Entries 209748
TOF MULT
TOF tray

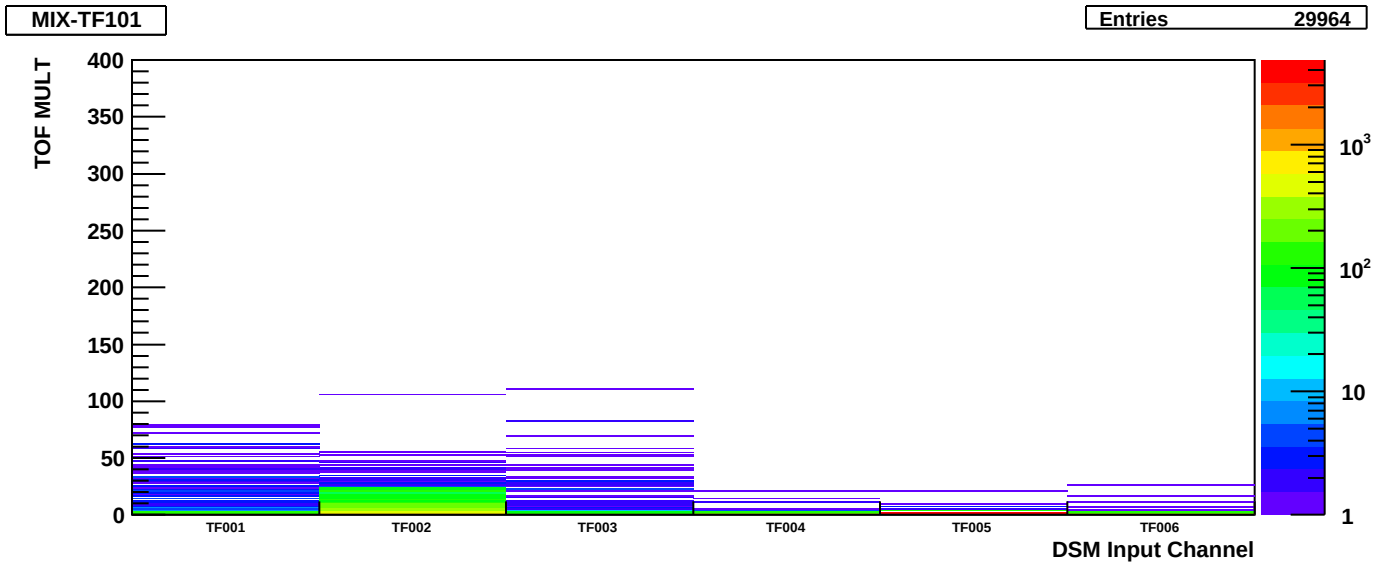

MIX-TF002
Entries 209748
TOF MULT
TOF tray

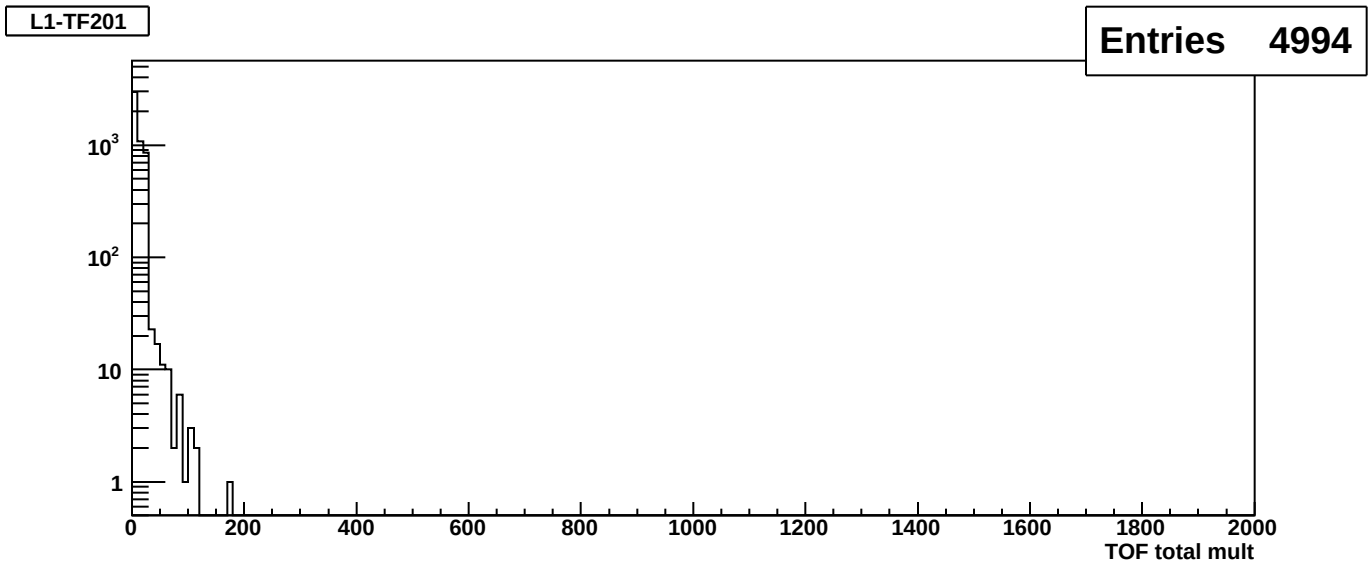

MIX-TF003
Entries 209748
TOF MULT
TOF tray

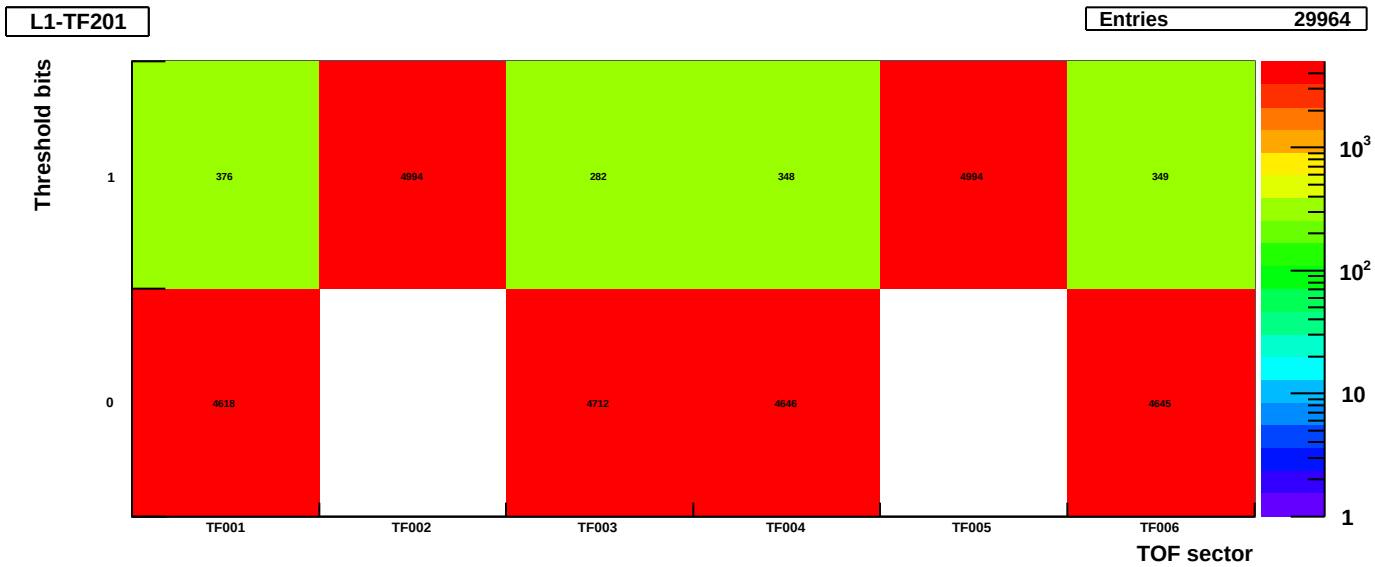

MIX-TF004
Entries 209748
TOF MULT
TOF tray

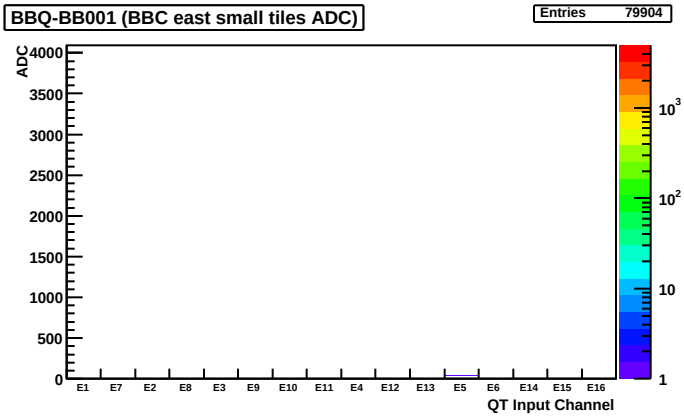

MIX-TF005
Entries 209748
TOF MULT
TOF tray

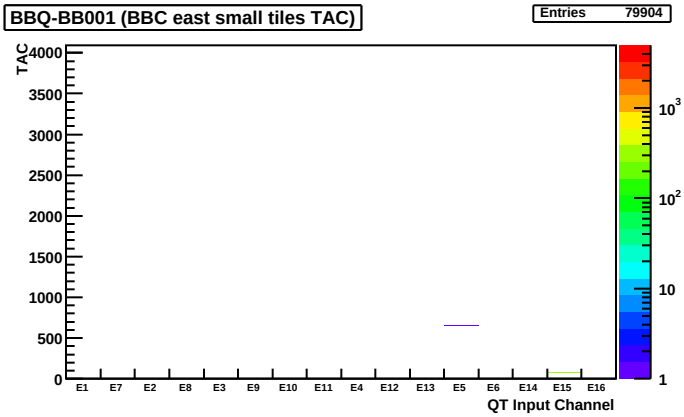

MIX-TF006
Entries 209748
TOF MULT
TOF tray

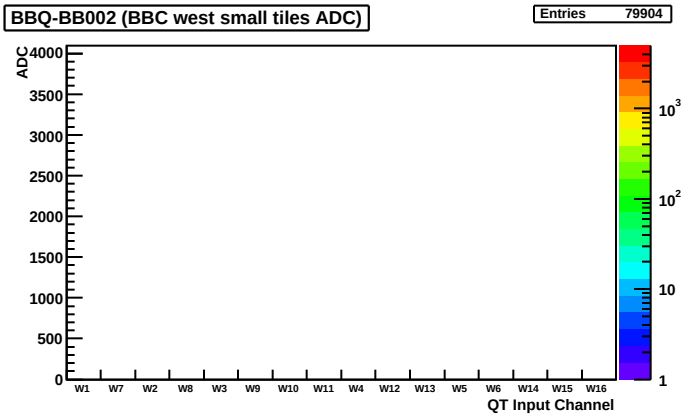

MIX-TF101
Entries 29964
TOF MULT
400
350
300
250
200
150
100
50
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3
10^2
10
1

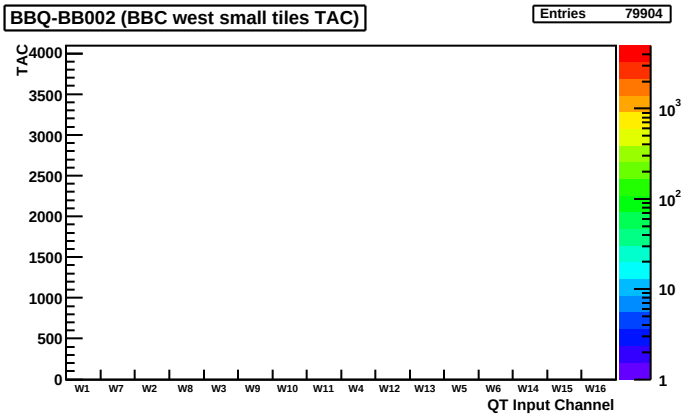

L1-TF201
Entries 4994
10^3
10^2
10
1
0
200
400
600
800
1000
1200
1400
1600
1800
2000
TOF total mult

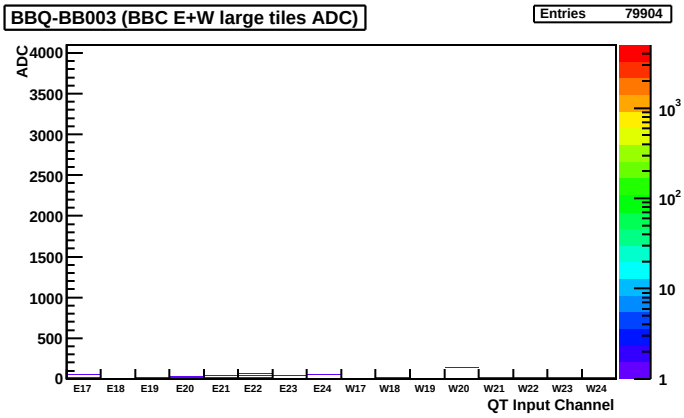

L1-TF201
Entries 29964
Threshold bits
1
0
376
4994
282
348
4994
349
4618
4712
4646
4645
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^3
10^2
10
1

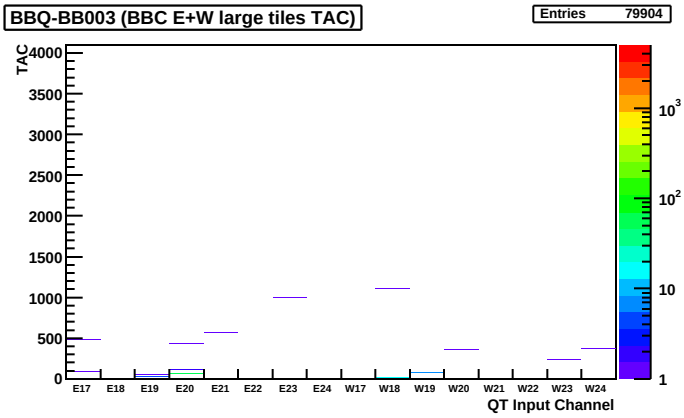

BBQ-BB001 (BBC east small tiles ADC)
Entries 79904
ADC
QT Input Channel

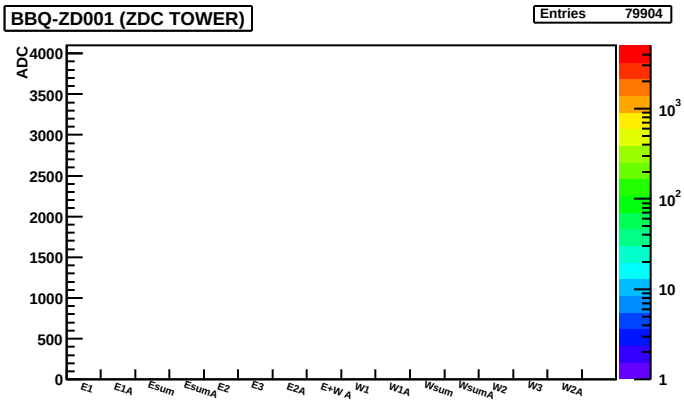

BBQ-BB001 (BBC east small tiles TAC)
Entries 79904
TAC
QT Input Channel

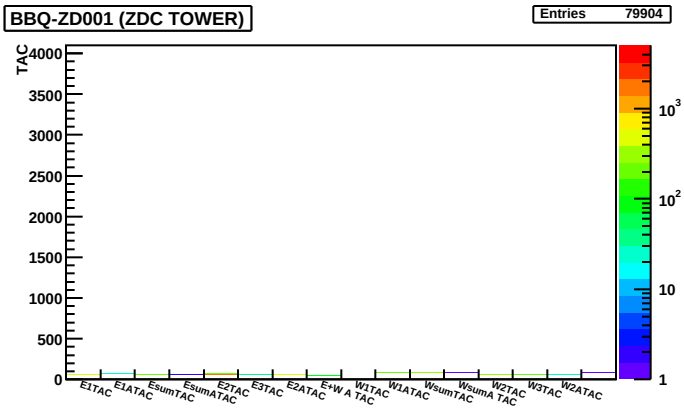

BBQ-BB002 (BBC west small tiles ADC)
Entries 79904
ADC
QT Input Channel

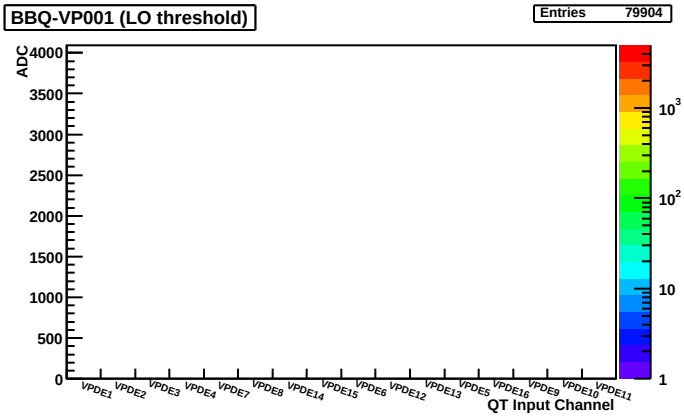

BBQ-BB002 (BBC west small tiles TAC)
Entries 79904
TAC
QT Input Channel

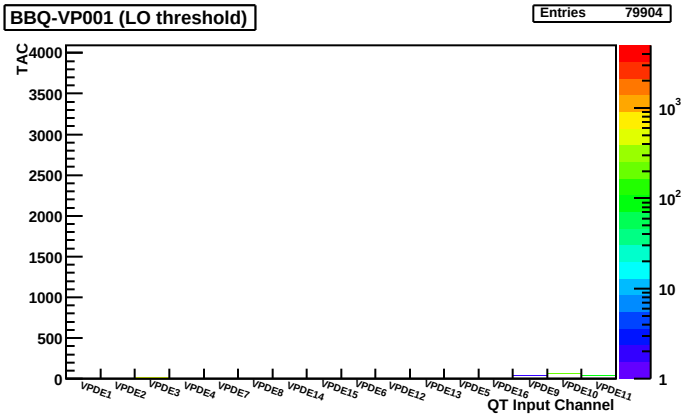

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 79904
ADC
QT Input Channel

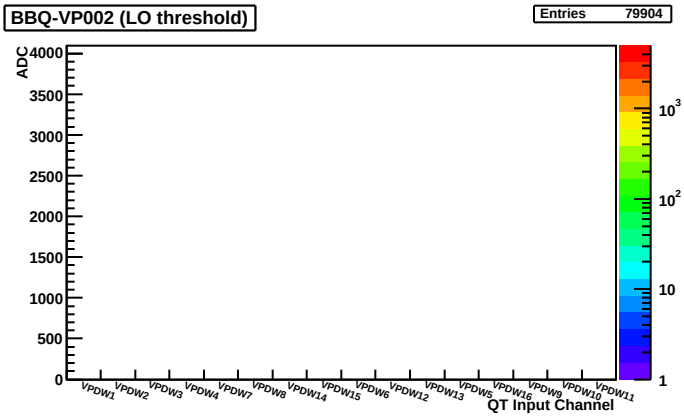

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 79904
TAC
QT Input Channel

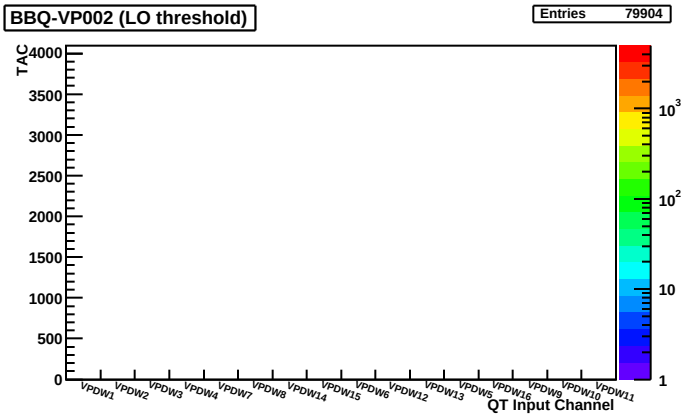

BBQ-ZD001 (ZDC TOWER)
Entries 79904
ADC

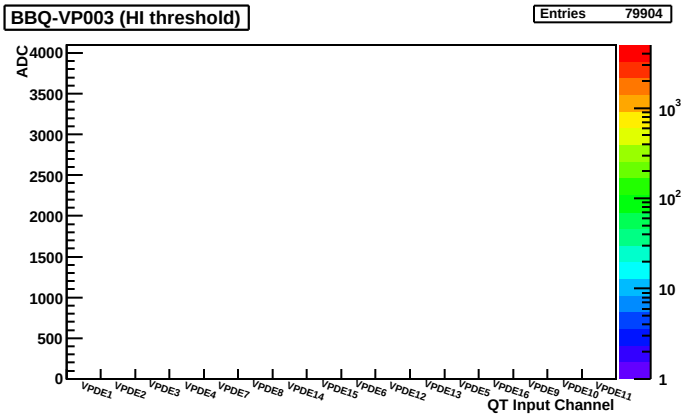

BBQ-ZD001 (ZDC TOWER)
Entries 79904
TAC

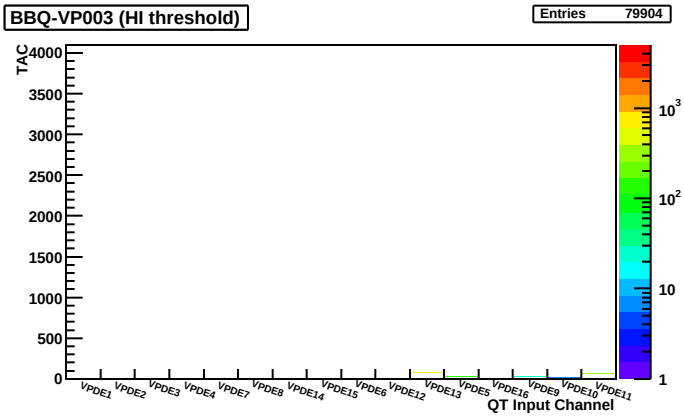

BBQ-VP001 (LO threshold)
Entries 79904
ADC
QT Input Channel

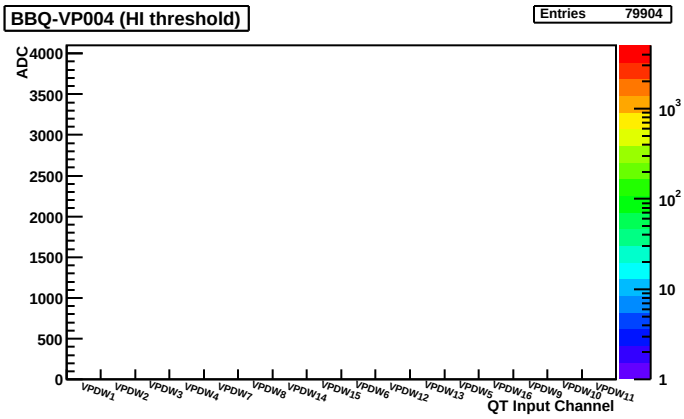

BBQ-VP001 (LO threshold)
Entries 79904
TAC
QT Input Channel

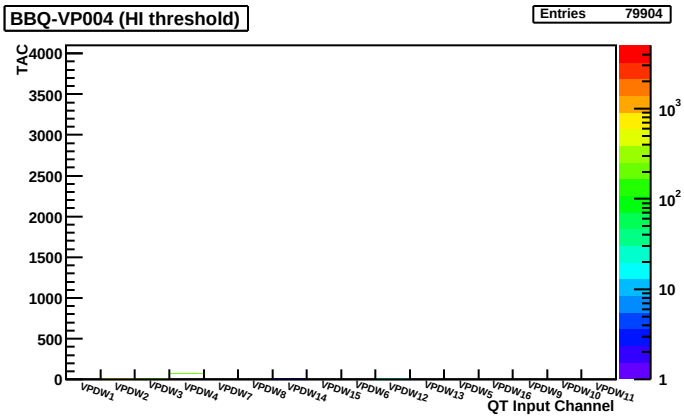

BBQ-VP002 (LO threshold)
Entries 79904
ADC
QT Input Channel

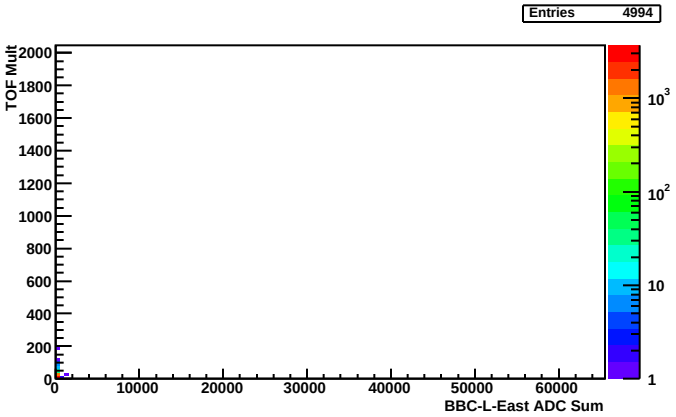

BBQ-VP002 (LO threshold)
Entries 79904
TAC
QT Input Channel

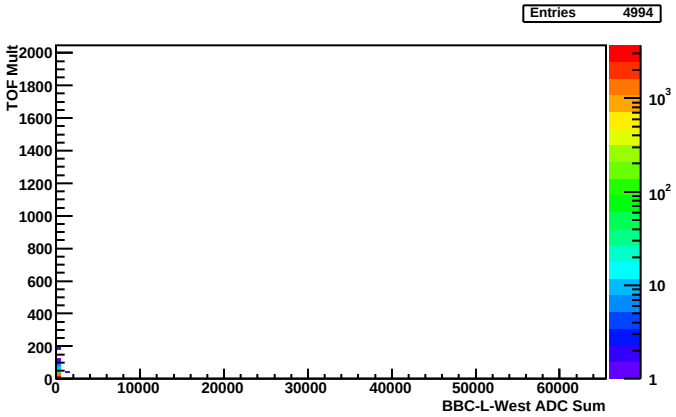

BBQ-VP003 (HI threshold)
Entries 79904
ADC
QT Input Channel

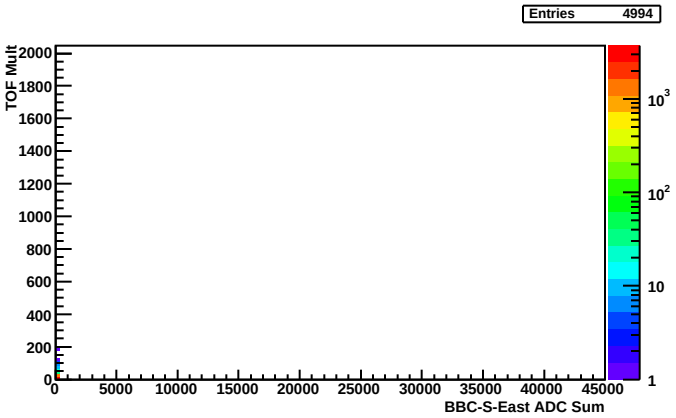

BBQ-VP003 (HI threshold)
Entries 79904
TAC
QT Input Channel

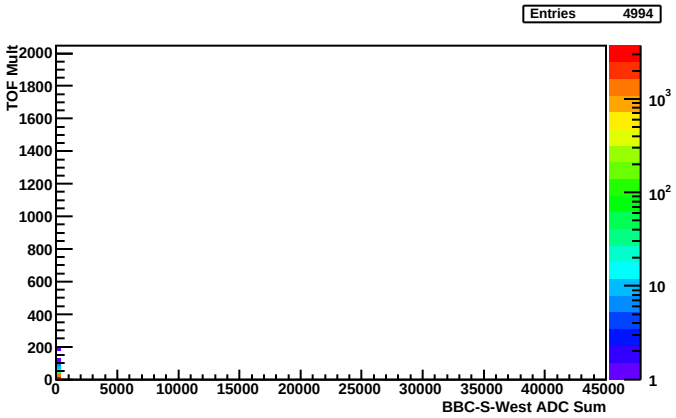

BBQ-VP004 (HI threshold)
Entries 79904
ADC
QT Input Channel

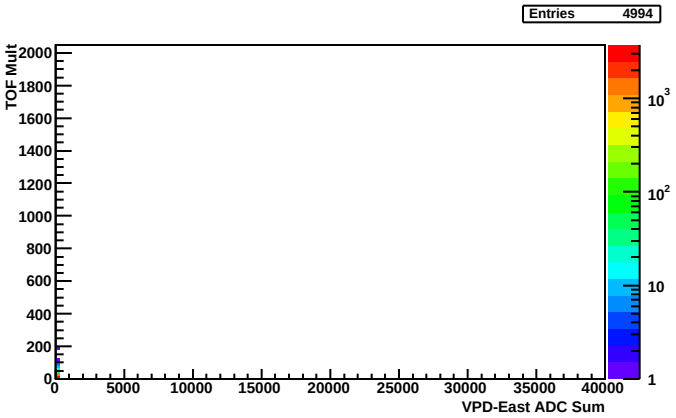

BBQ-VP004 (HI threshold)
Entries 79904
TAC
QT Input Channel

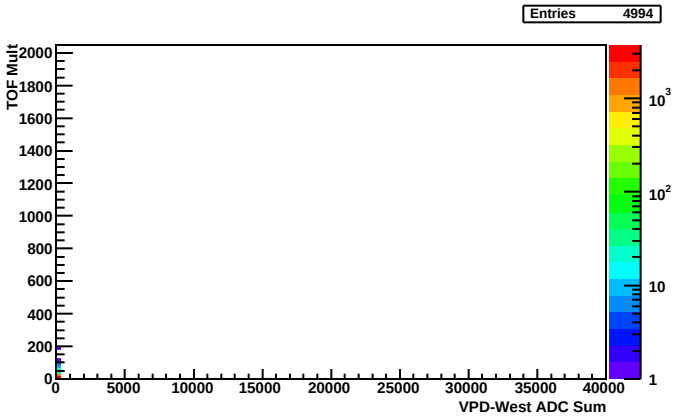

Entries 4994
TOF Mult
BBC-L-East ADC Sum

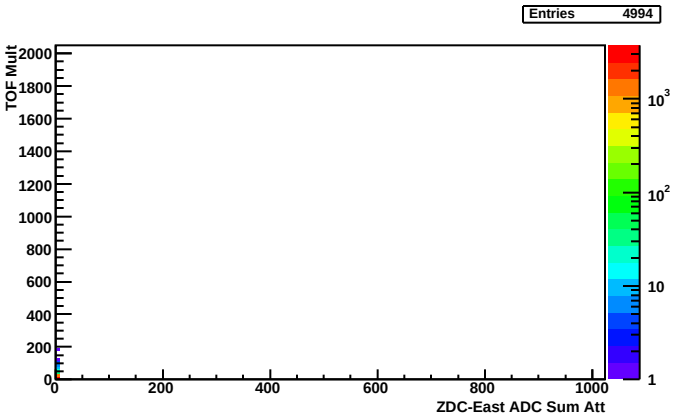

Entries 4994
TOF Mult
BBC-L-West ADC Sum

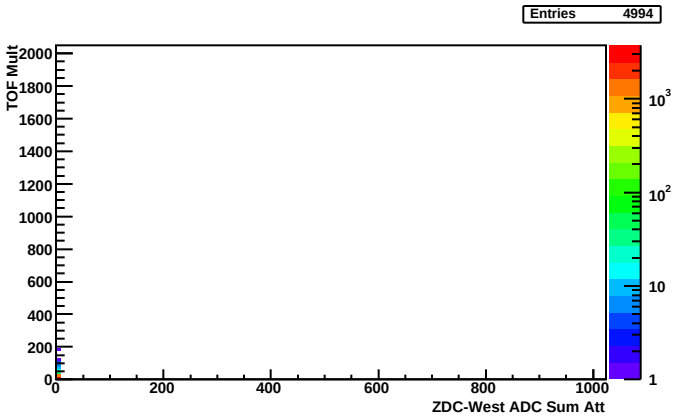

Entries 4994
TOF Mult
BBC-S-East ADC Sum

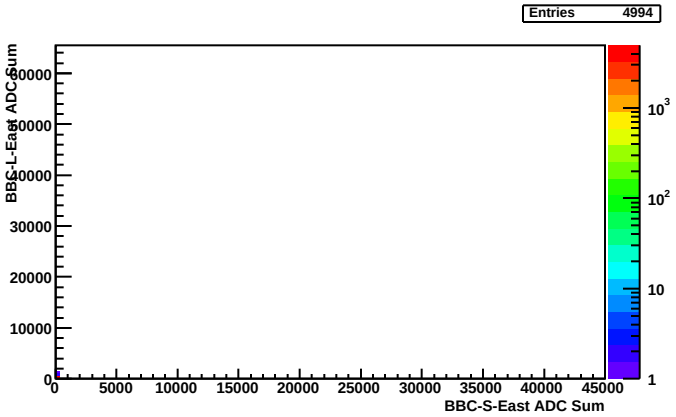

Entries 4994
TOF Mult
BBC-S-West ADC Sum

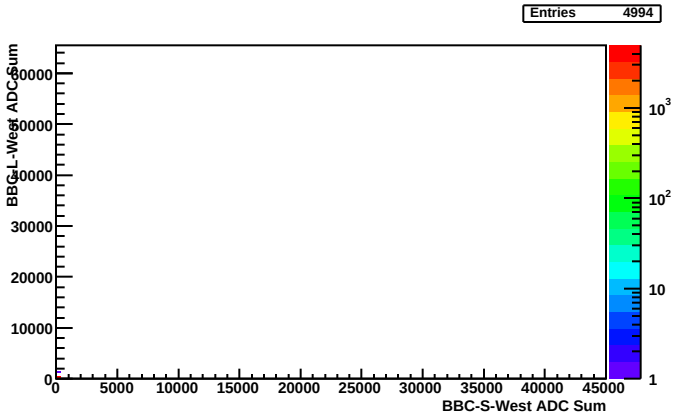

Entries 4994
TOF Mult
VPD-East ADC Sum

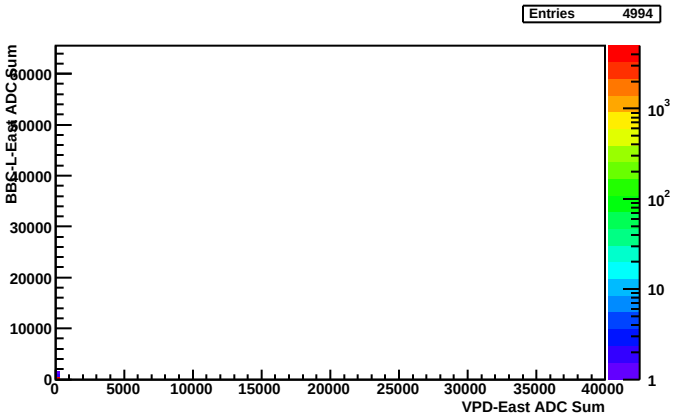

Entries 4994
TOF Mult
VPD-West ADC Sum

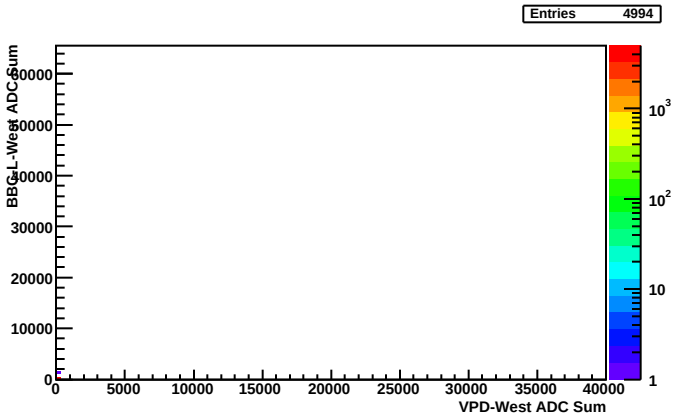

Entries 4994
TOF Mult
ZDC-East ADC Sum Att

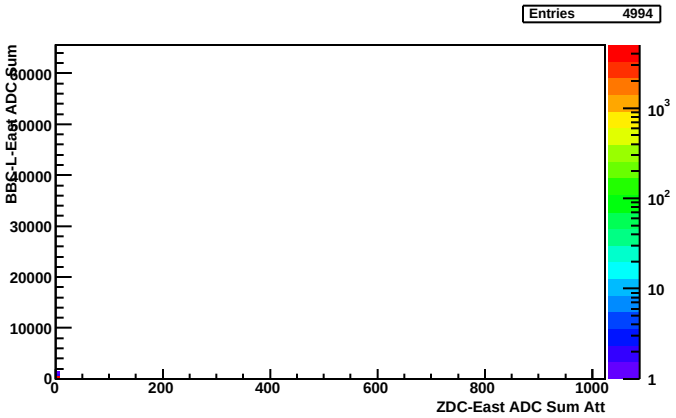

Entries 4994
TOF Mult
ZDC-West ADC Sum Att

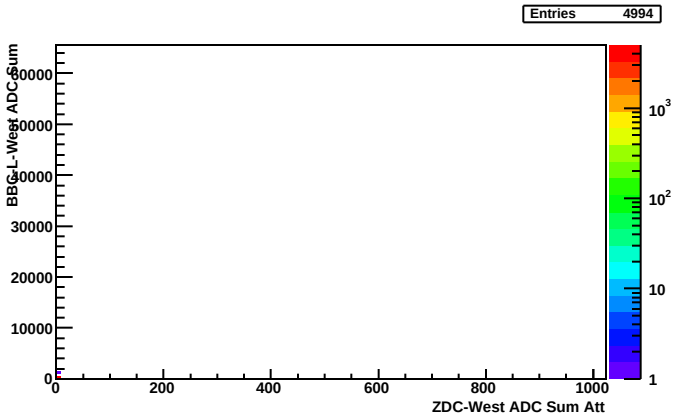

Entries 4994
BBC-L-East ADC Sum
BBC-S-East ADC Sum

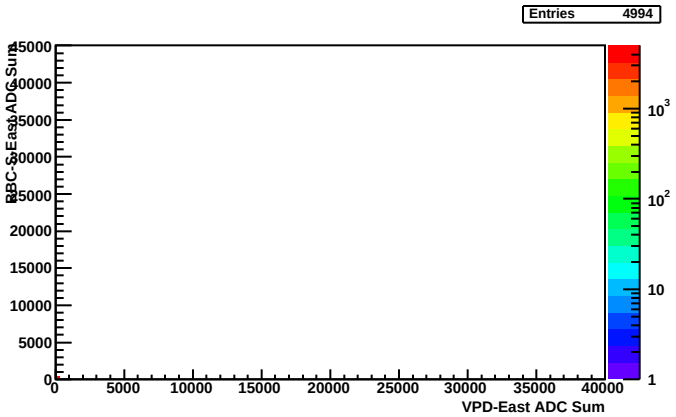

Entries 4994
BBC-L-West ADC Sum
BBC-S-West ADC Sum

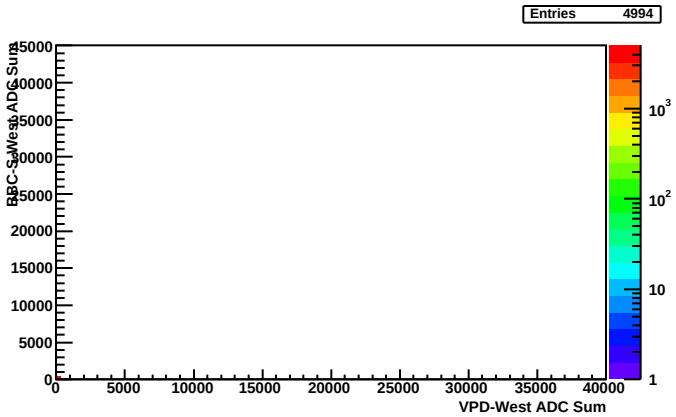

Entries 4994
BBC-L-East ADC Sum
VPD-East ADC Sum

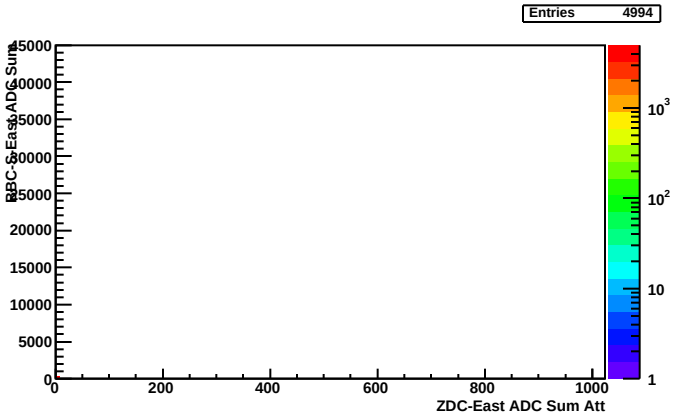

Entries 4994
BBC-L-West ADC Sum
VPD-West ADC Sum

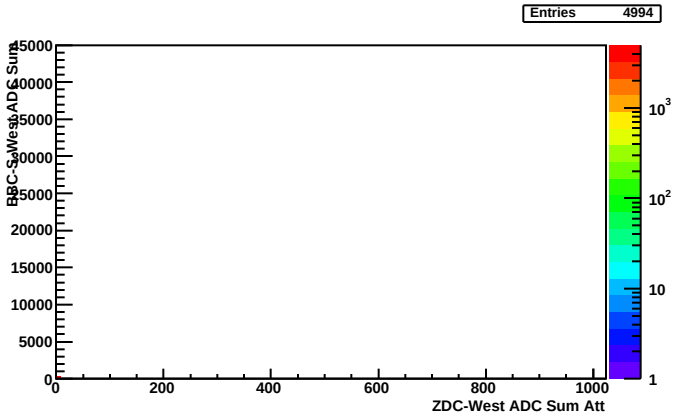

Entries 4994
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 4994
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 4994
BBC-S-East ADC Sum
VPD-East ADC Sum


Entries 4994
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 4994
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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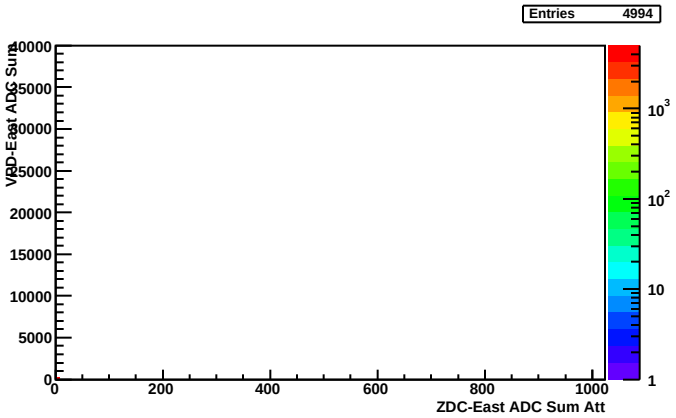
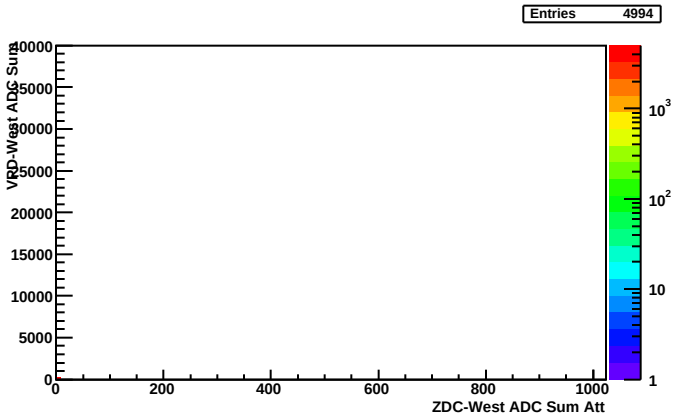
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 4994
VPD-East ADC Sum
ZDC-East ADC Sum Att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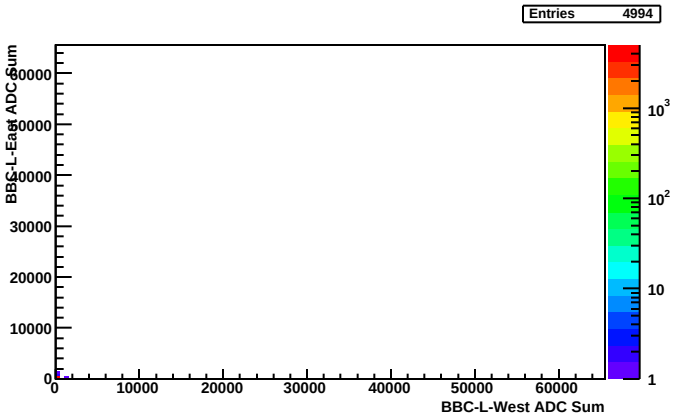
VPD-West ADC Sum
ZDC-West ADC Sum Att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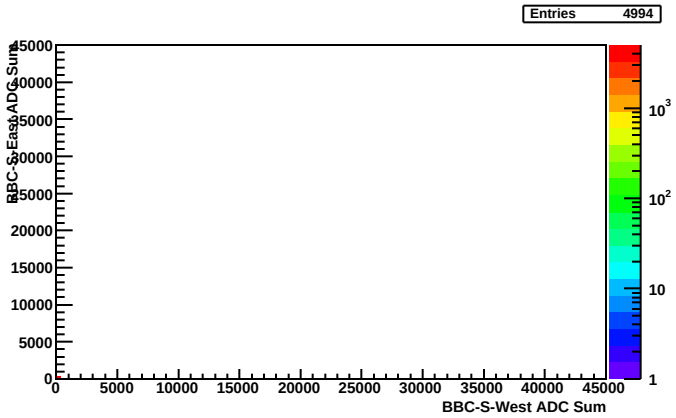
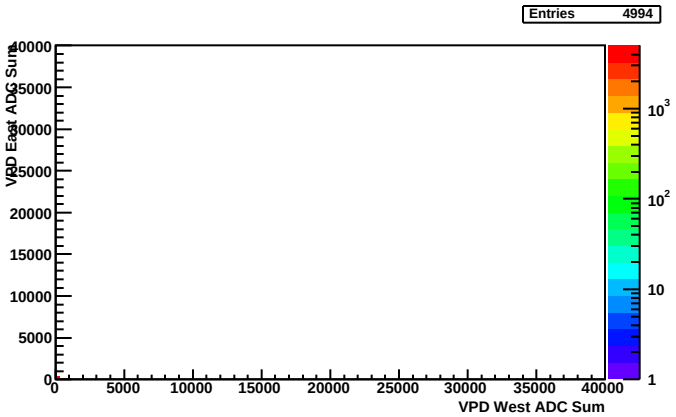
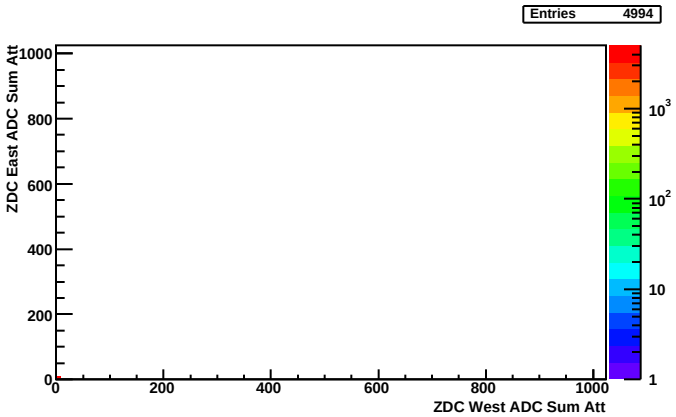
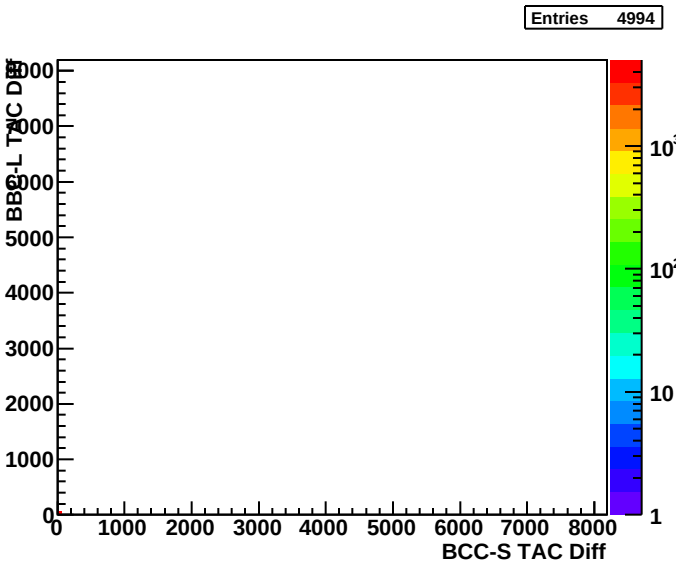
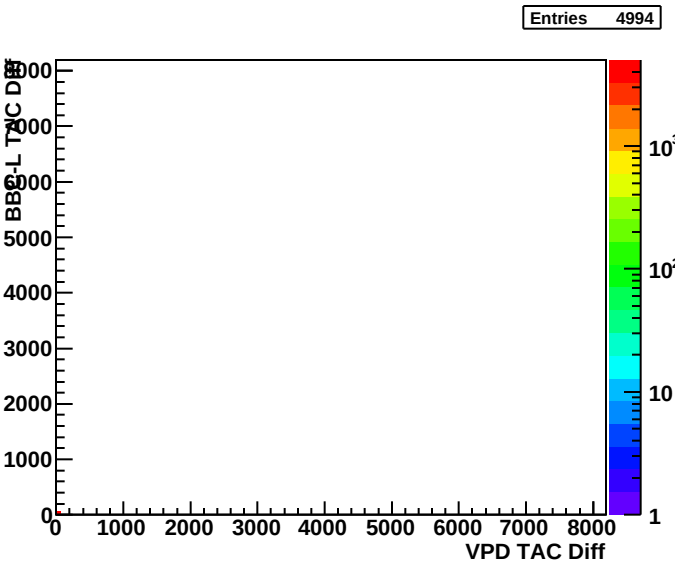
BBC-L-East ADC Sum
BBC-L-West ADC Sum

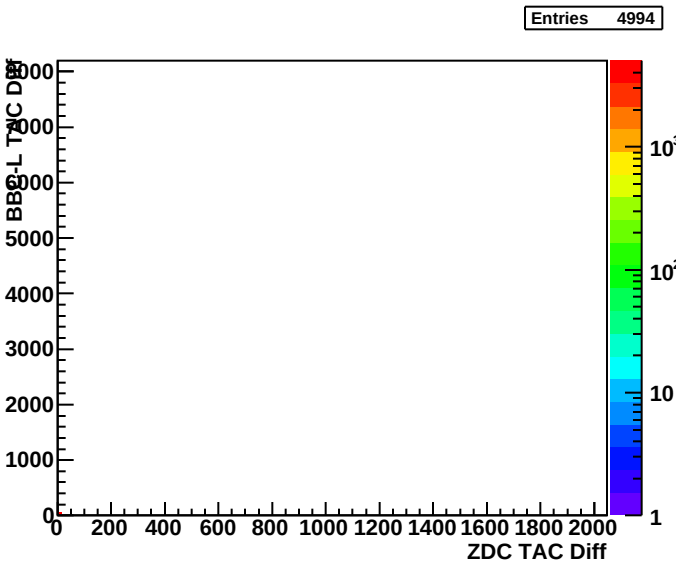

Entries 4994
BBC-S-East ADC Sum
BBC-S-West ADC Sum

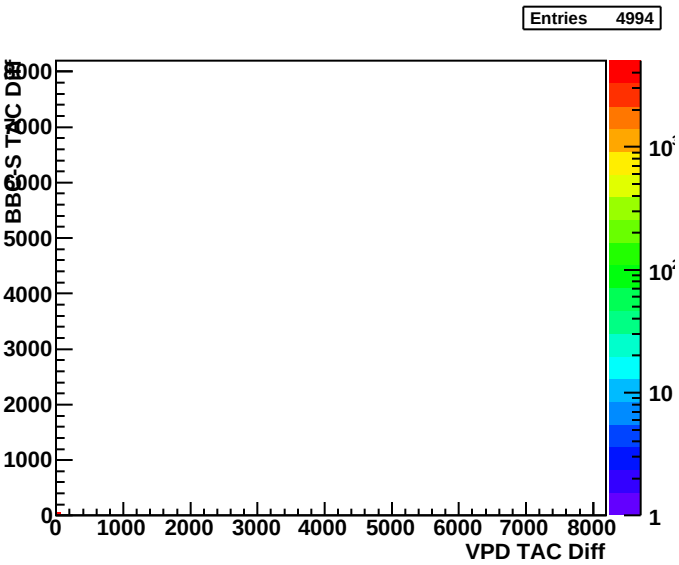

Entries 4994
VPD East ADC Sum
VPD West ADC Sum

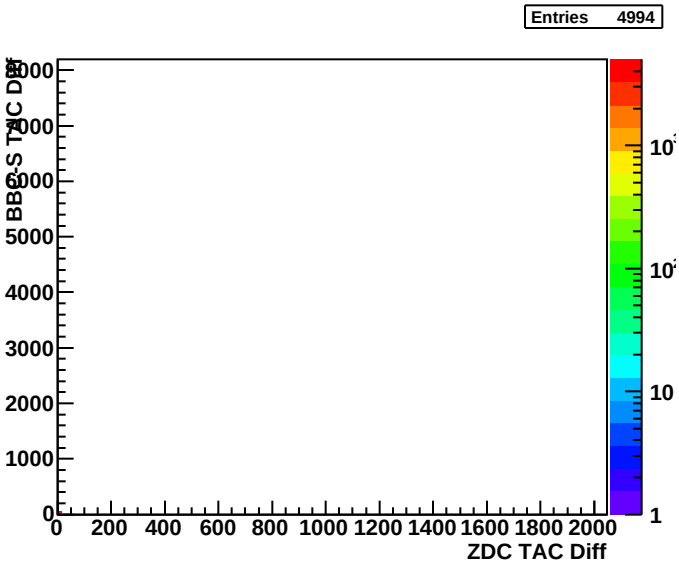

Entries 4994
ZDC East ADC Sum Att
ZDC West ADC Sum Att

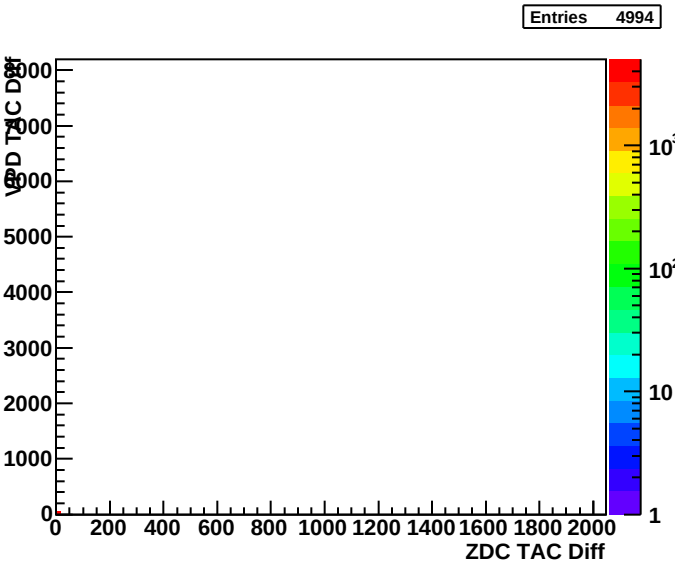

Entries 4994
BBC-L TAC Diff
BCC-S TAC Diff

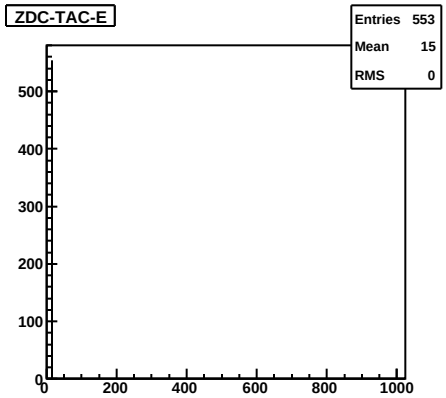

Entries 4994
BBC-L TAC Diff
VPD TAC Diff

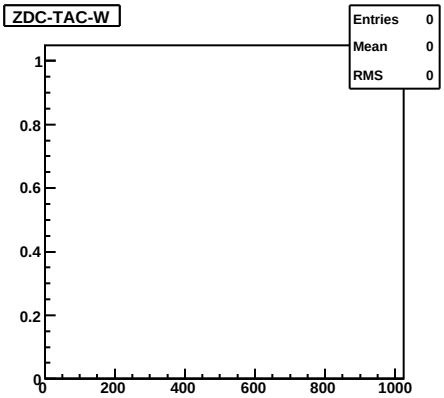

Entries 4994
BBC-L TAC Diff
ZDC TAC Diff

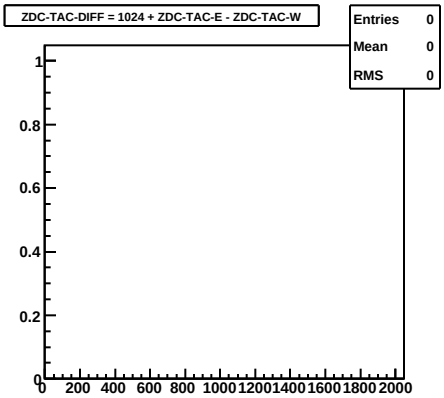

Entries 4994
BBC-S TAC Diff
VPD TAC Diff

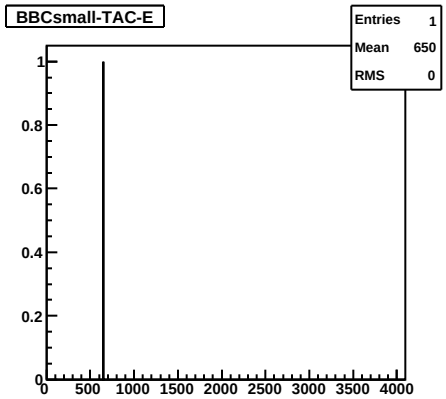

Entries 4994
BBC-S TAC Diff
ZDC TAC Diff

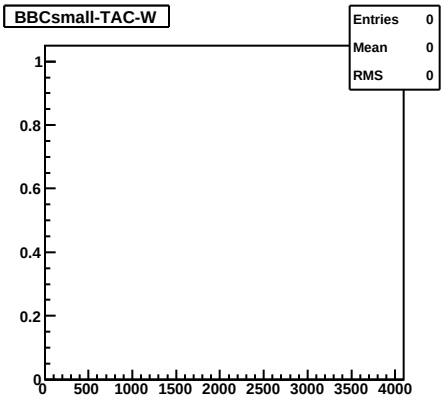

Entries 4994
VPD TAC Diff
ZDC TAC Diff

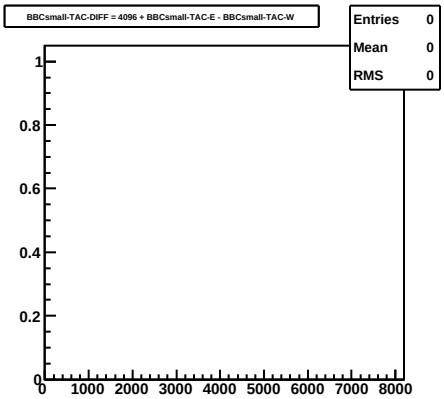

ZDC-TAC-E
Entries 553
Mean 15
RMS 0

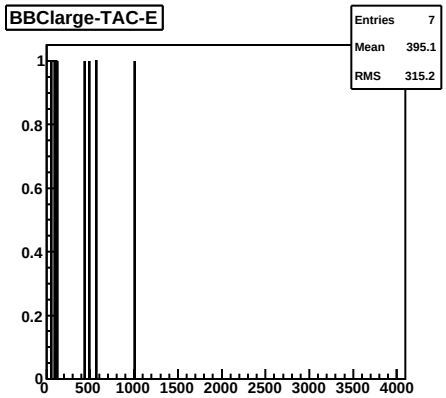

ZDC-TAC-W
Entries 0
Mean 0
RMS 0

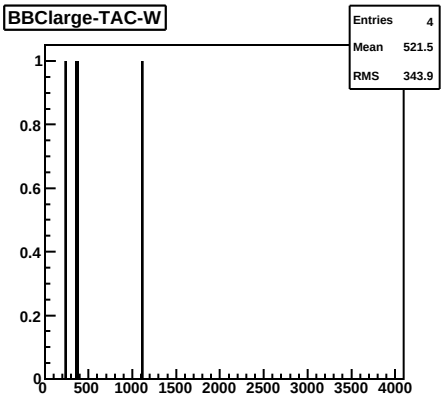

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 0
Mean 0
RMS 0

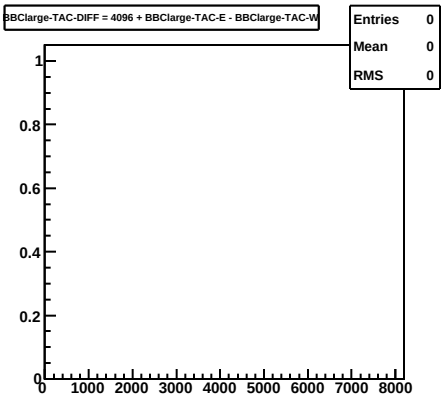

BBCsmall-TAC-E
Entries 1
Mean 650
RMS 0

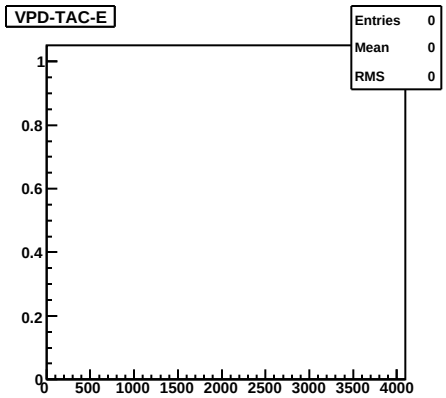

BBCsmall-TAC-W
Entries 0
Mean 0
RMS 0

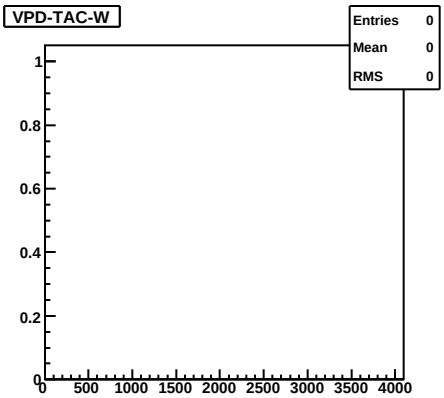

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 0
Mean 0
RMS 0

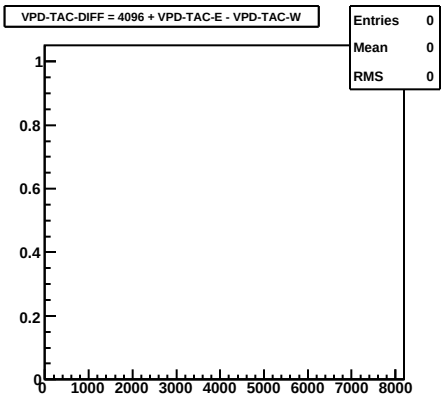

BBClarge-TAC-E
Entries 7
Mean 395.1
RMS 315.2

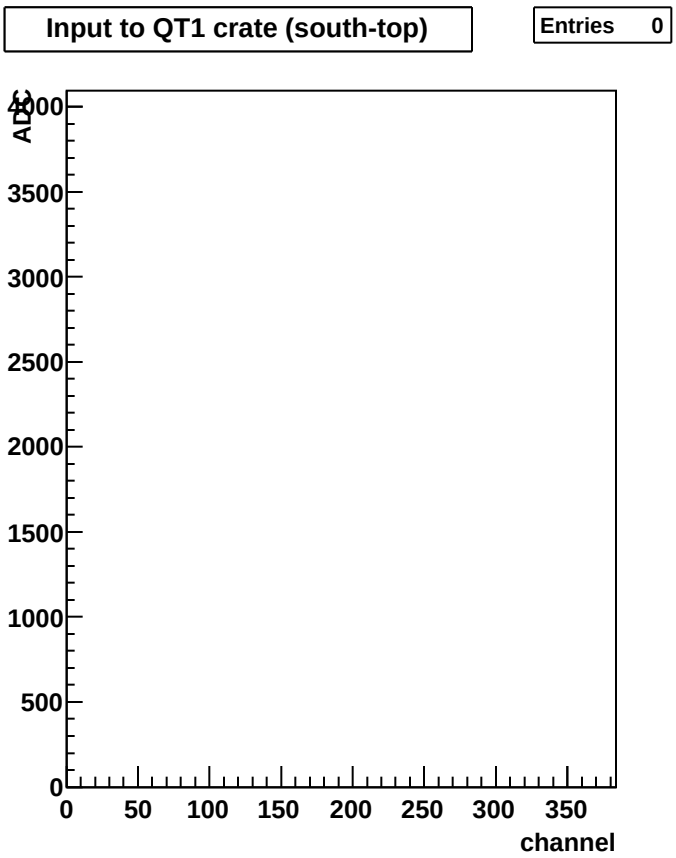

BBClarge-TAC-W
Entries 4
Mean 521.5
RMS 343.9

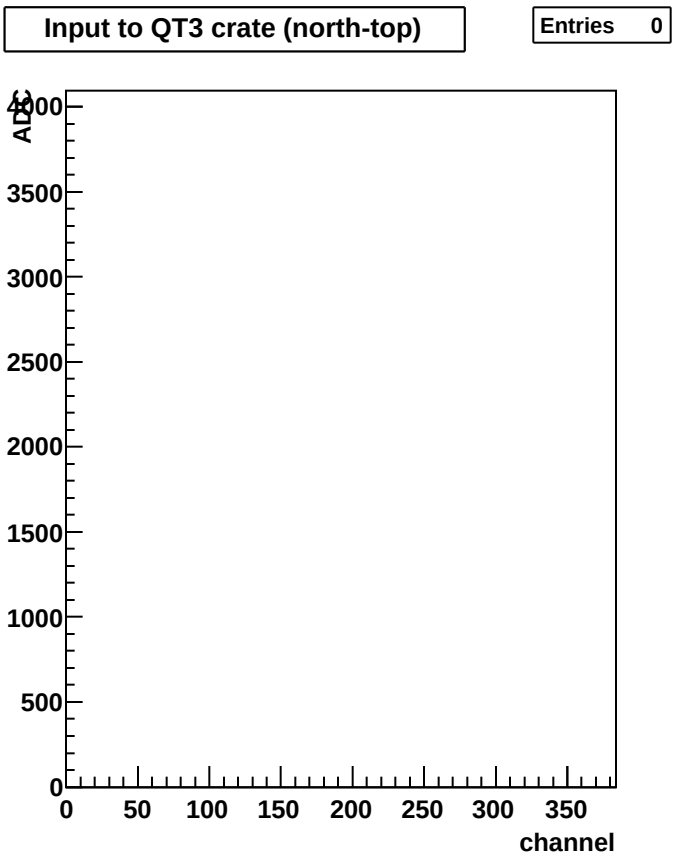

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 0
Mean 0
RMS 0

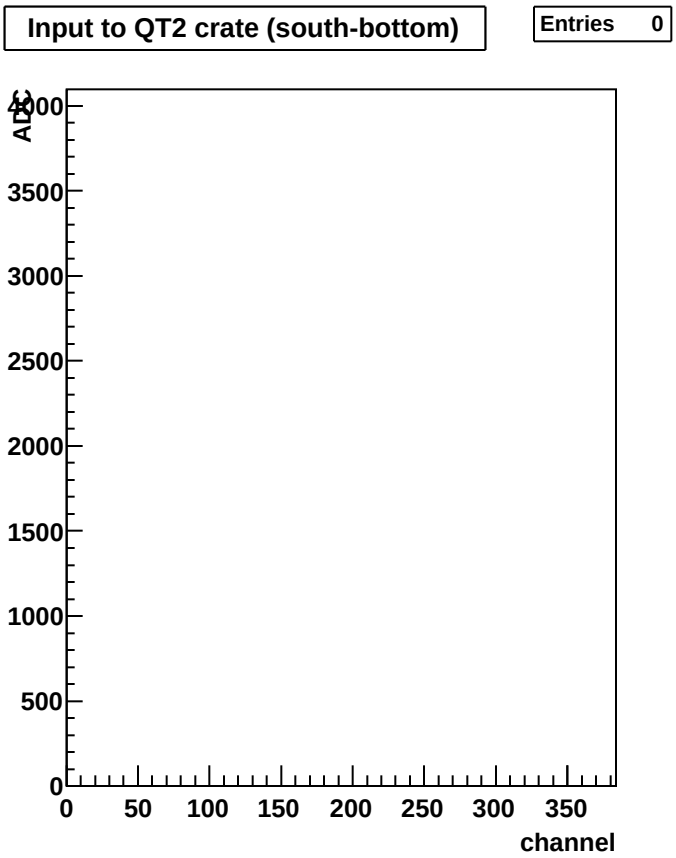

VPD-TAC-E
Entries 0
Mean 0
RMS 0

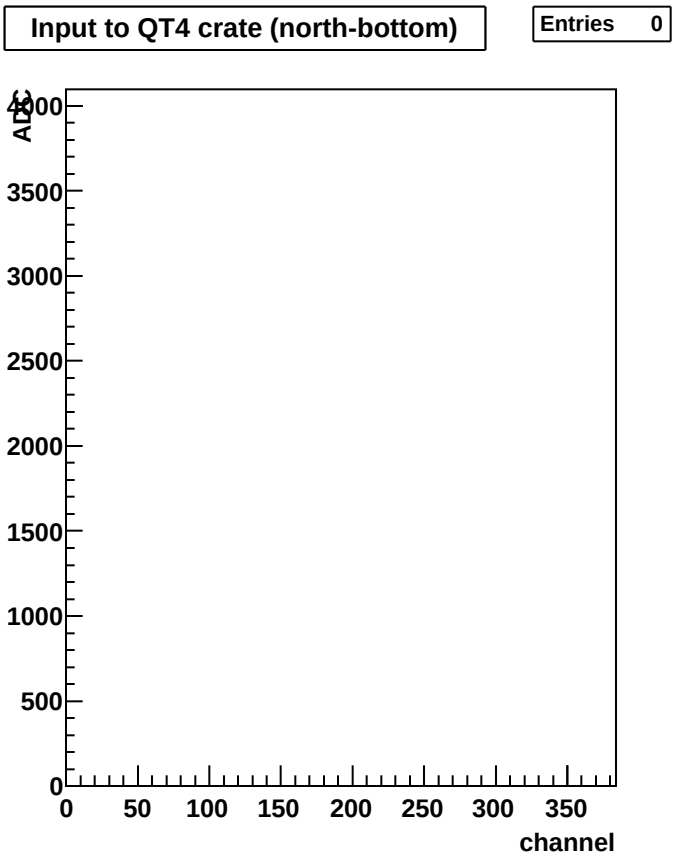

VPD-TAC-W
Entries 0
Mean 0
RMS 0

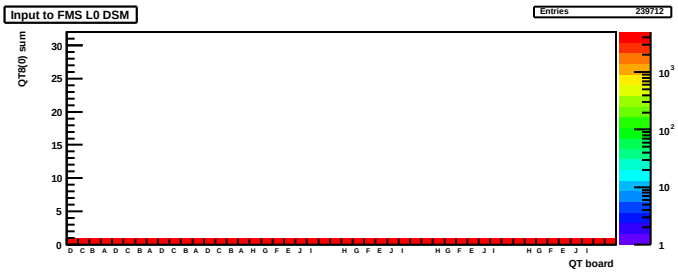

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 0
Mean 0
RMS 0

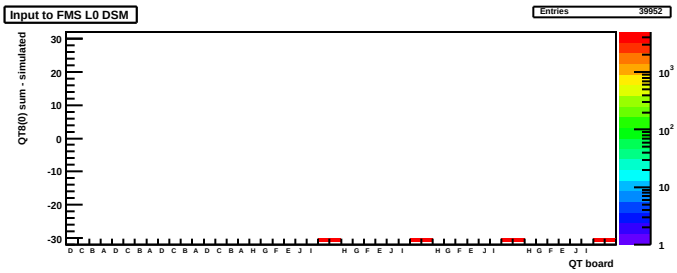

Input to QT1 crate (south-top)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

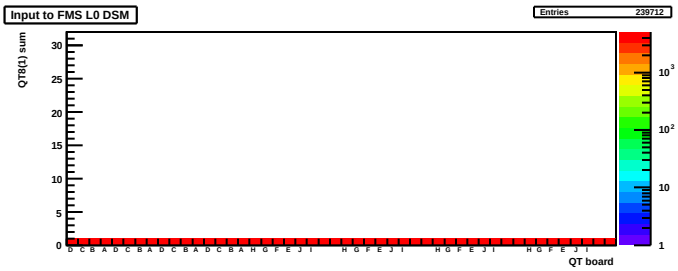

Input to QT3 crate (north-top)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

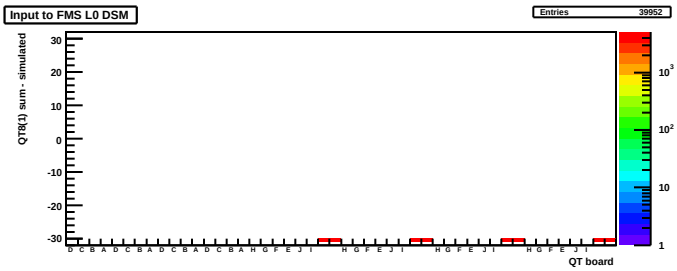

Input to QT2 crate (south-bottom)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

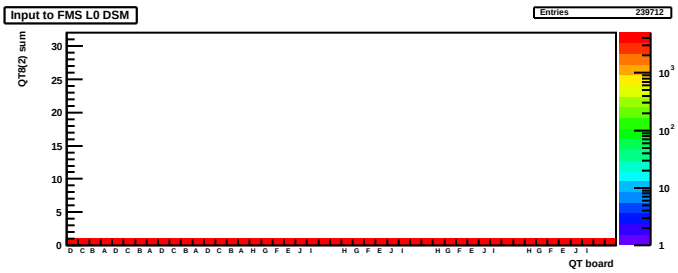

Input to QT4 crate (north-bottom)
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

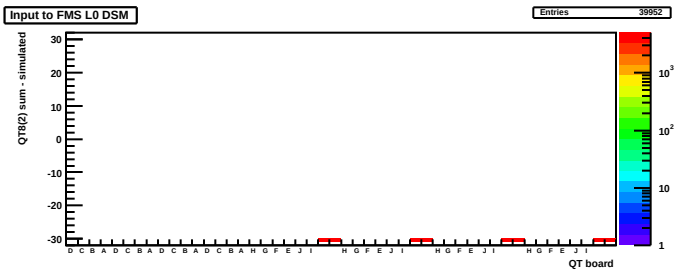

Input to FMS L0 DSM
Entries 239712
QT8(0) sum
QT board

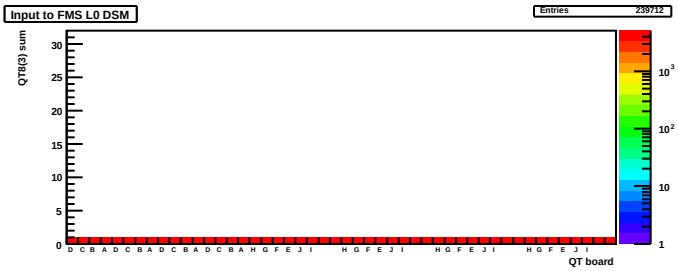

Input to FMS L0 DSM
Entries 39952
QT8(0) sum - simulated
QT board

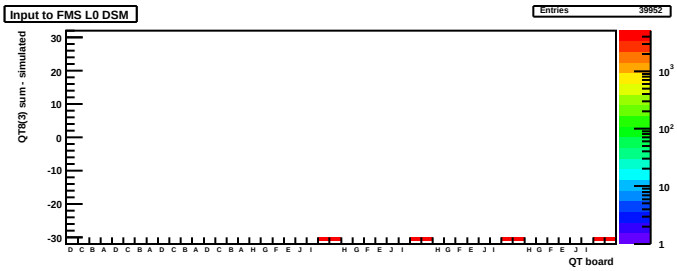

Input to FMS L0 DSM
Entries 239712
QT8(1) sum
QT board

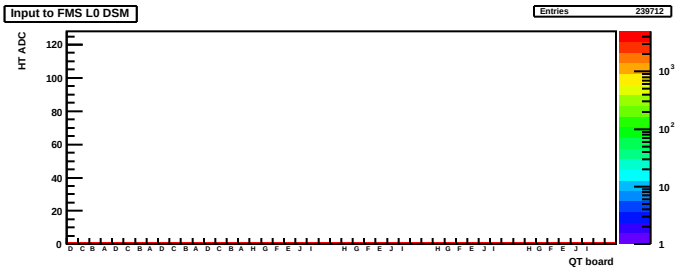

Input to FMS L0 DSM
Entries 39952
QT8(1) sum - simulated
QT board

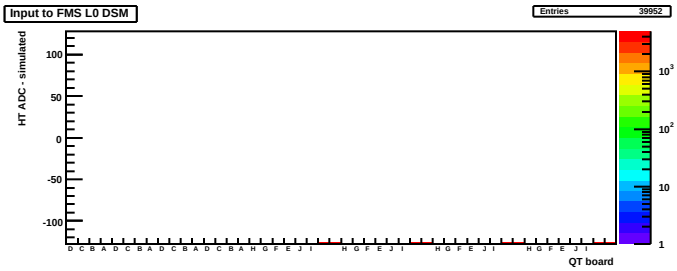

Input to FMS L0 DSM
Entries 239712
QT8(2) sum
QT board

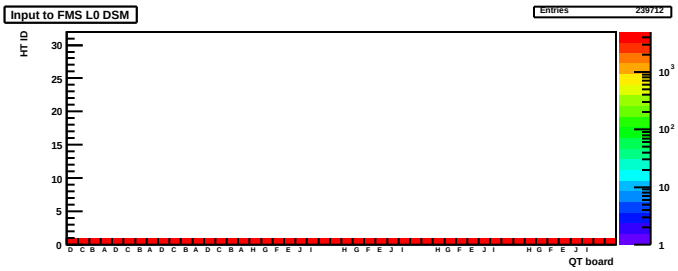

Input to FMS L0 DSM
Entries 39952
QT8(2) sum - simulated
QT board

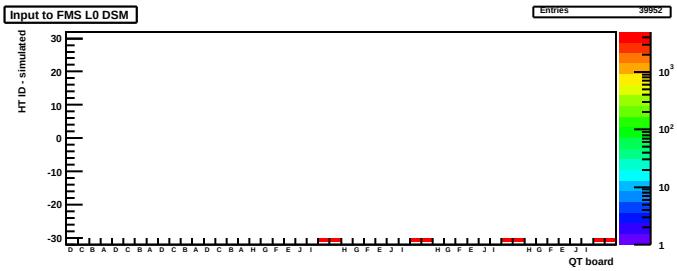

Input to FMS L0 DSM
Entries 239712
QT8(3) sum
QT board

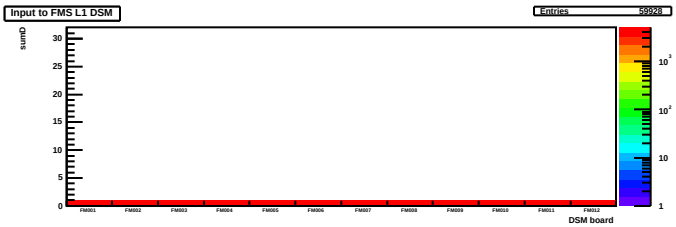

Input to FMS L0 DSM
Entries 39952
QT8(3) sum - simulated
QT board

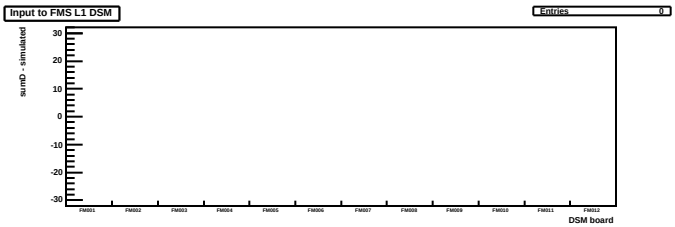

Input to FMS L0 DSM
Entries 239712
HT ADC
QT board

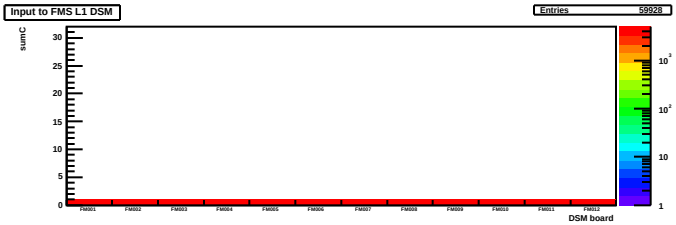

Input to FMS L0 DSM
Entries 39952
HT ADC - simulated
QT board

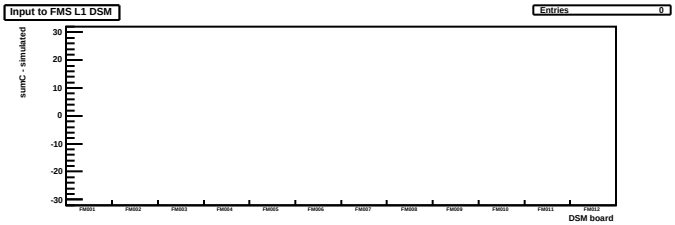

Input to FMS L0 DSM
Entries 239712
HT ID
QT board

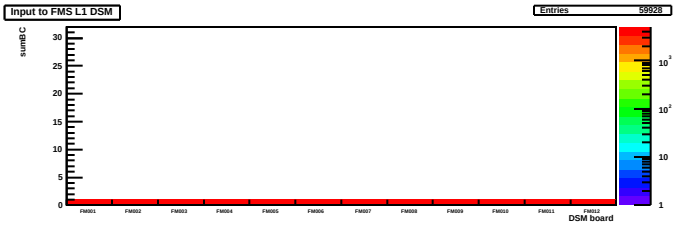

Input to FMS L0 DSM
Entries 39952
HT ID - simulated
QT board

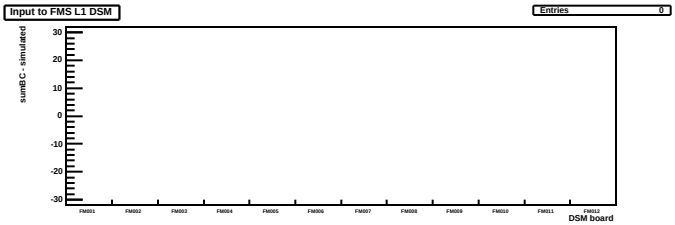

Input to FMS L1 DSM
Entries 59928
sumD
DSM board

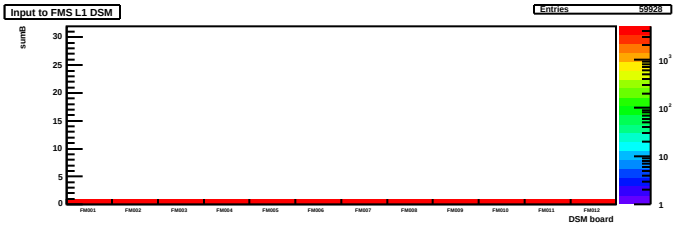

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

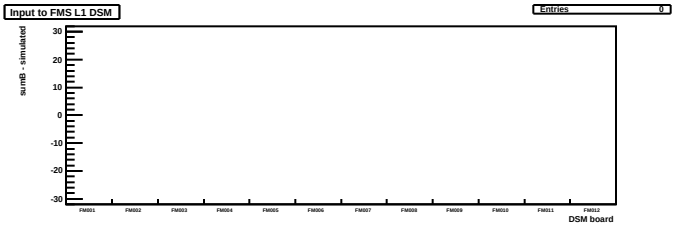

Input to FMS L1 DSM
Entries 59928
sumC
DSM board

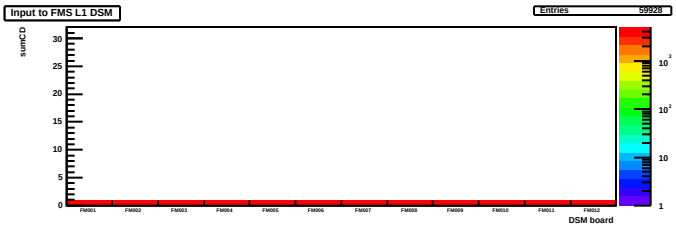

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

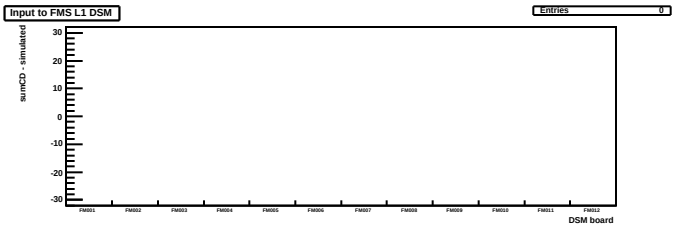

Input to FMS L1 DSM
Entries 59928
sumBC
DSM board

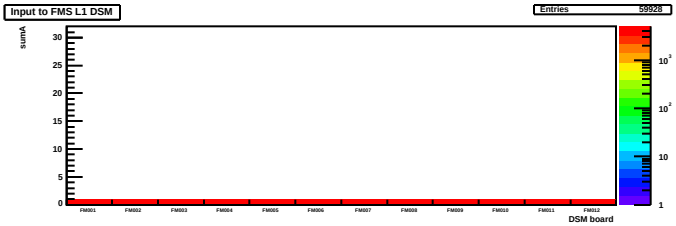

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

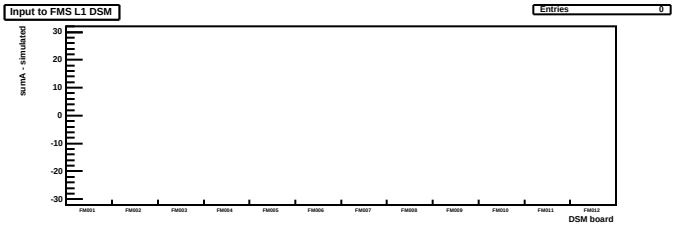

Input to FMS L1 DSM
Entries 59928
sumB
DSM board

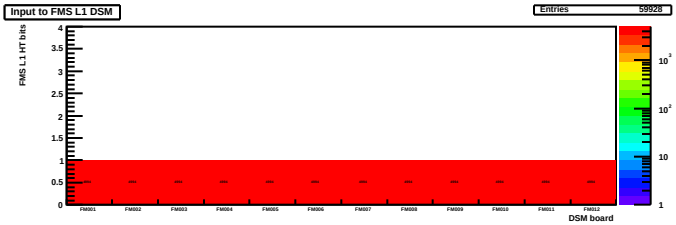

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

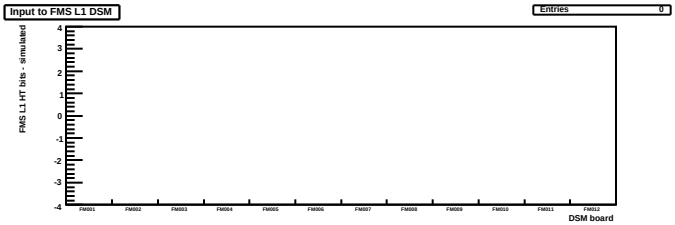

Input to FMS L1 DSM
Entries 59928
sumCD
DSM board

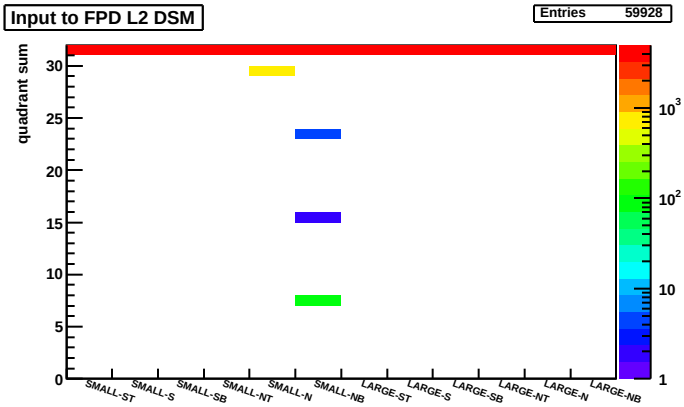

Input to FMS L1 DSM
Entries 0
sumCD - simulated
DSM board

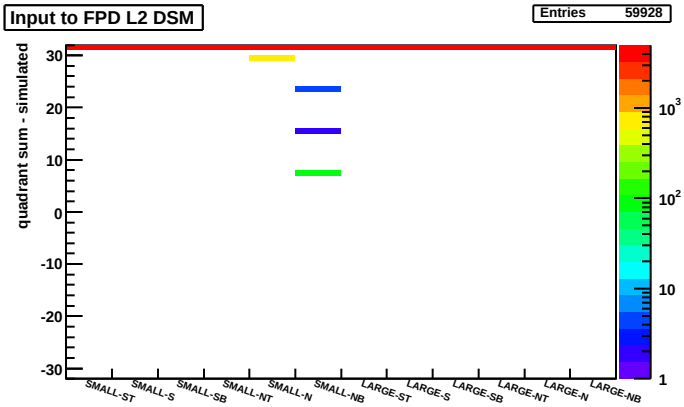

Input to FMS L1 DSM
Entries 59928
sumA
DSM board

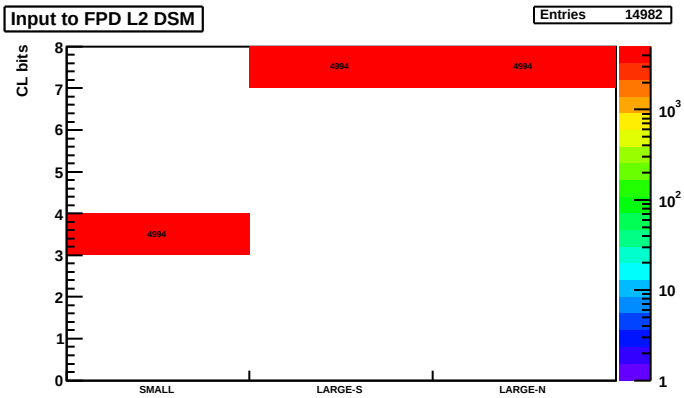

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

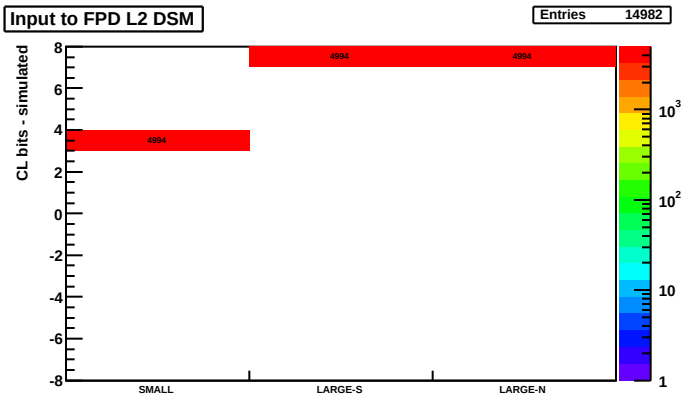

Input to FMS L1 DSM
Entries 59928
FMS L1 HT bits
DSM board

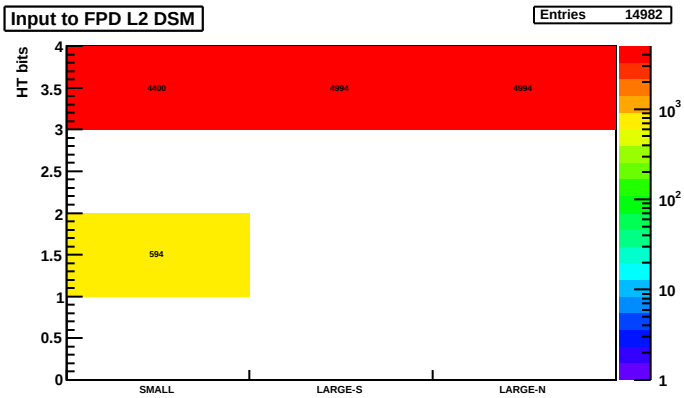

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

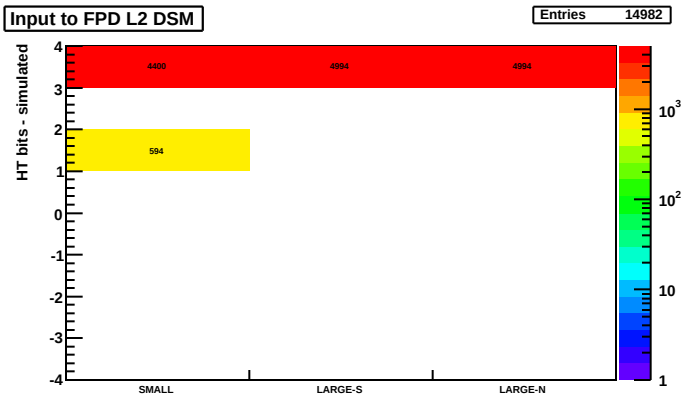

Input to FPD L2 DSM
Entries 59928
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

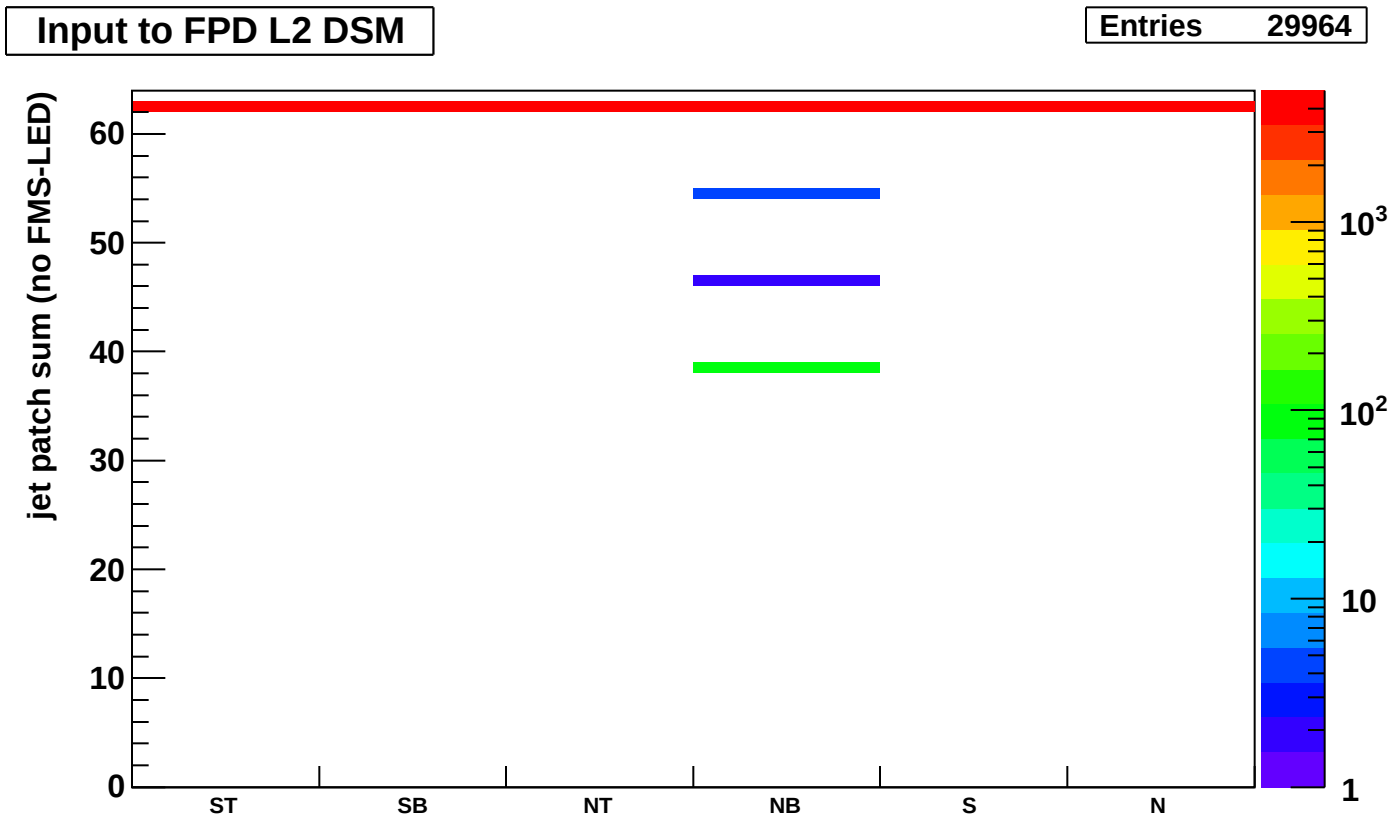

Input to FPD L2 DSM
Entries 59928
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

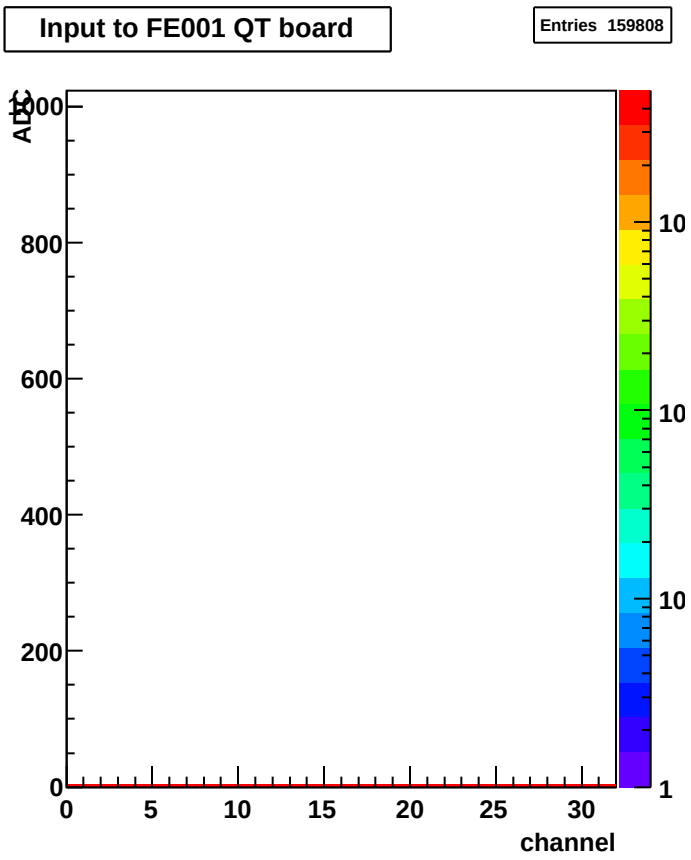

Input to FPD L2 DSM
Entries 14982
CL bits
4994
4994
4994
SMALL
LARGE-S
LARGE-N

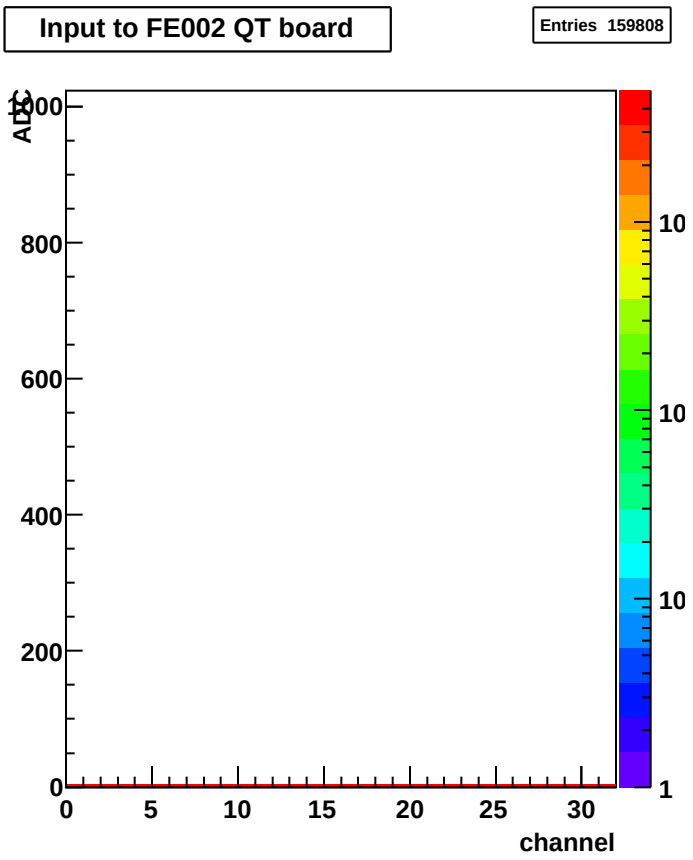

Input to FPD L2 DSM
Entries 14982
CL bits - simulated
4994
4994
4994
SMALL
LARGE-S
LARGE-N

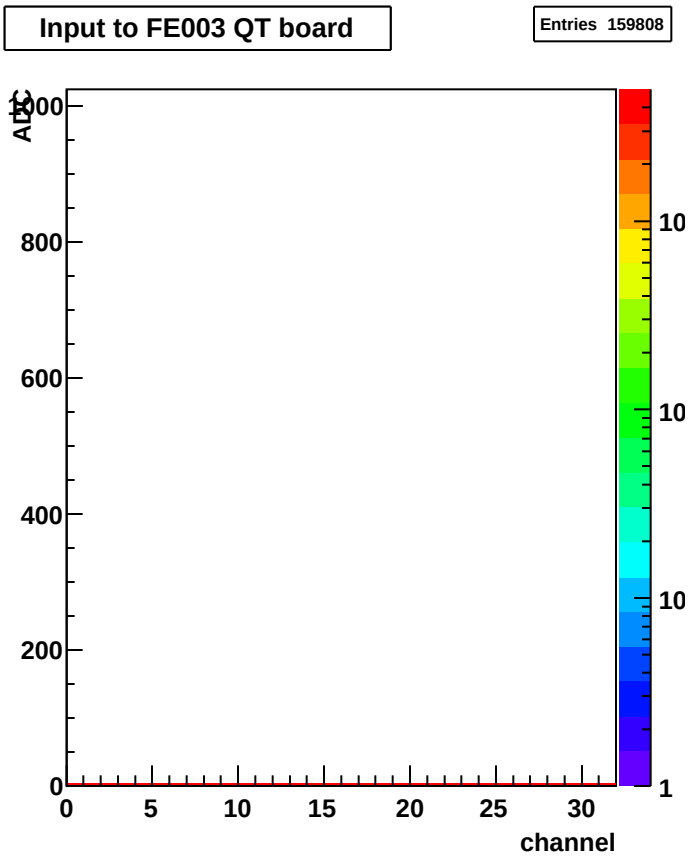

Input to FPD L2 DSM
Entries 14982
HT bits
4400
4994
4994
594
SMALL
LARGE-S
LARGE-N

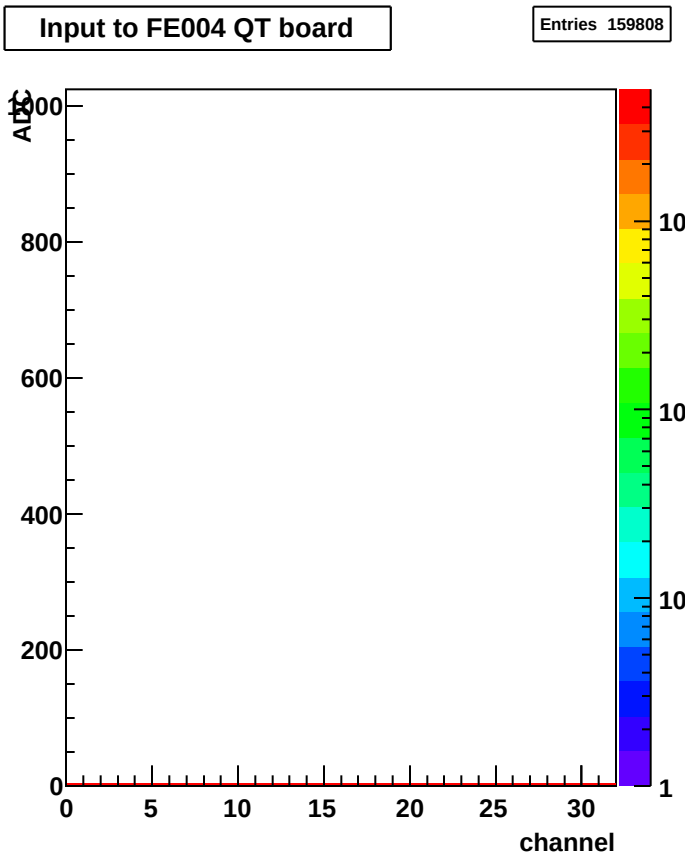

Input to FPD L2 DSM
Entries 14982
HT bits - simulated
4400
4994
4994
594
SMALL
LARGE-S
LARGE-N

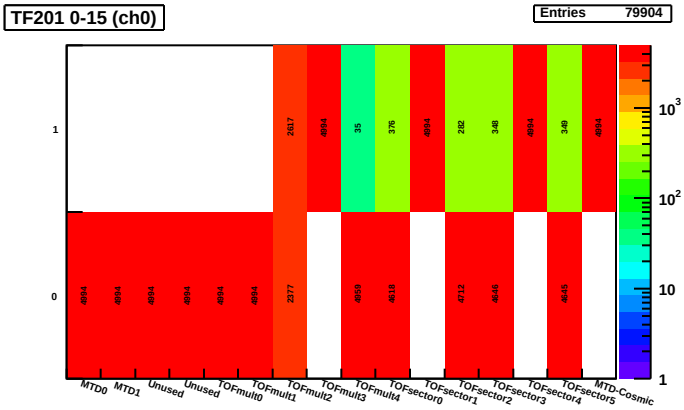

Input to FPD L2 DSM
Entries 29964
jet patch sum (no FMS-LED)
0
10
20
30
40
50
60
ST
SB
NT
NB
S
N
1
10
10^2
10^3

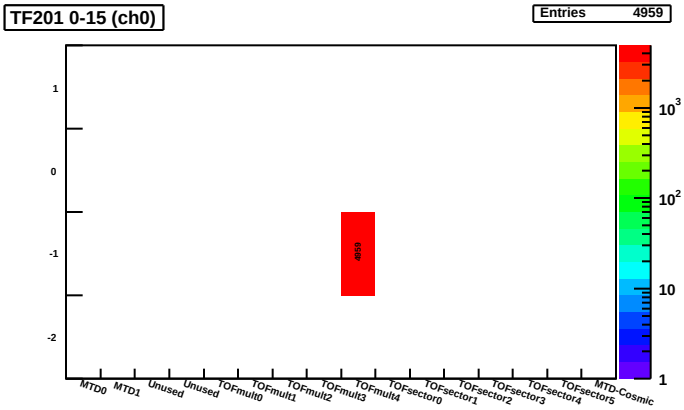

Input to FE001 QT board
Entries 159808
ADC
channel

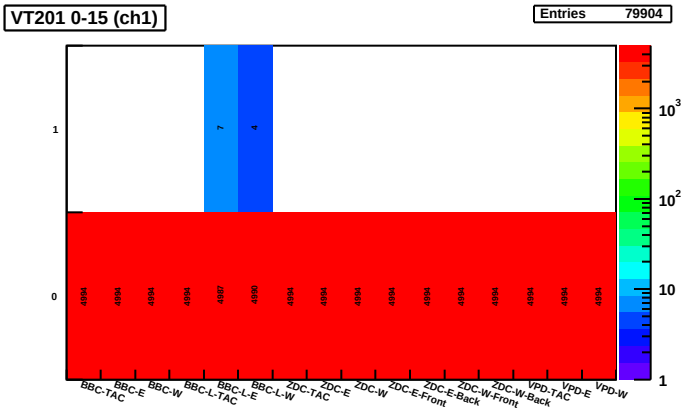

Input to FE002 QT board
Entries 159808
ADC
channel

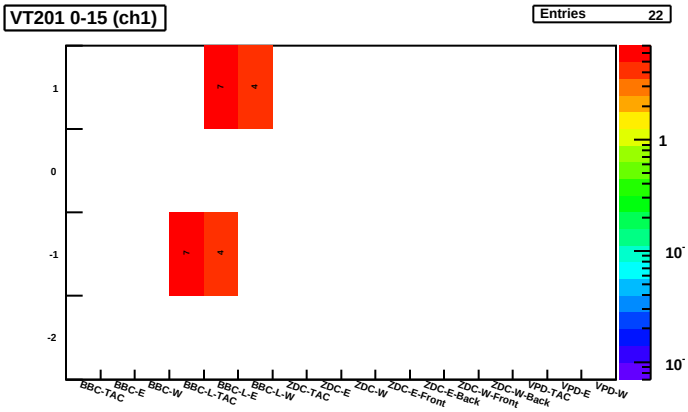

Input to FE003 QT board
Entries 159808
ADC
channel

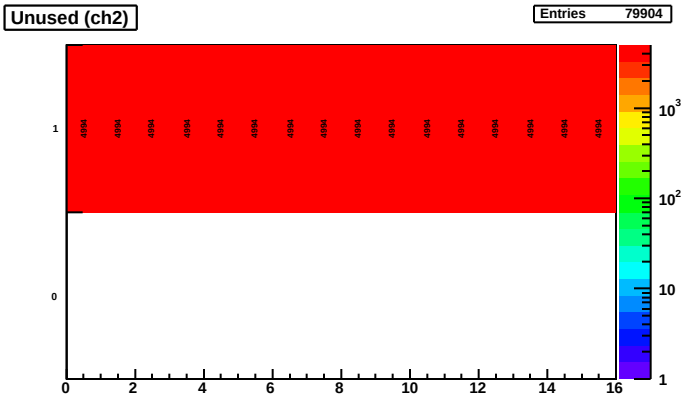

Input to FE004 QT board
Entries 159808
ADC
channel

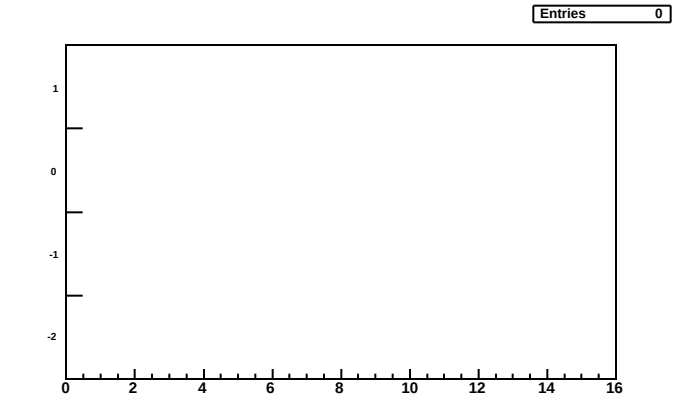

TF201 0-15 (ch0)
Entries 79904
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

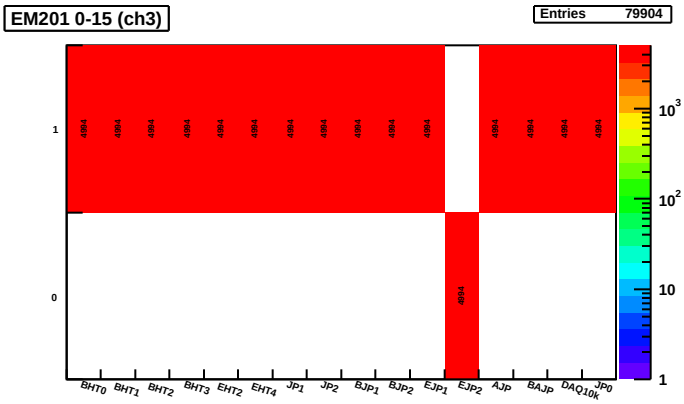

TF201 0-15 (ch0)
Entries 4959
MTD0 MTD1 Unused Unused TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

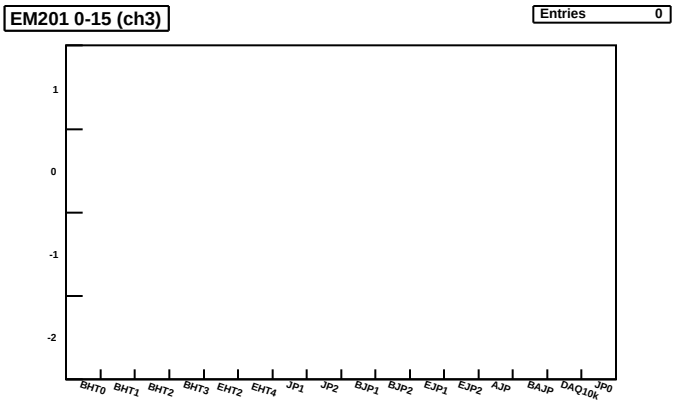

VT201 0-15 (ch1)
Entries 79904
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W

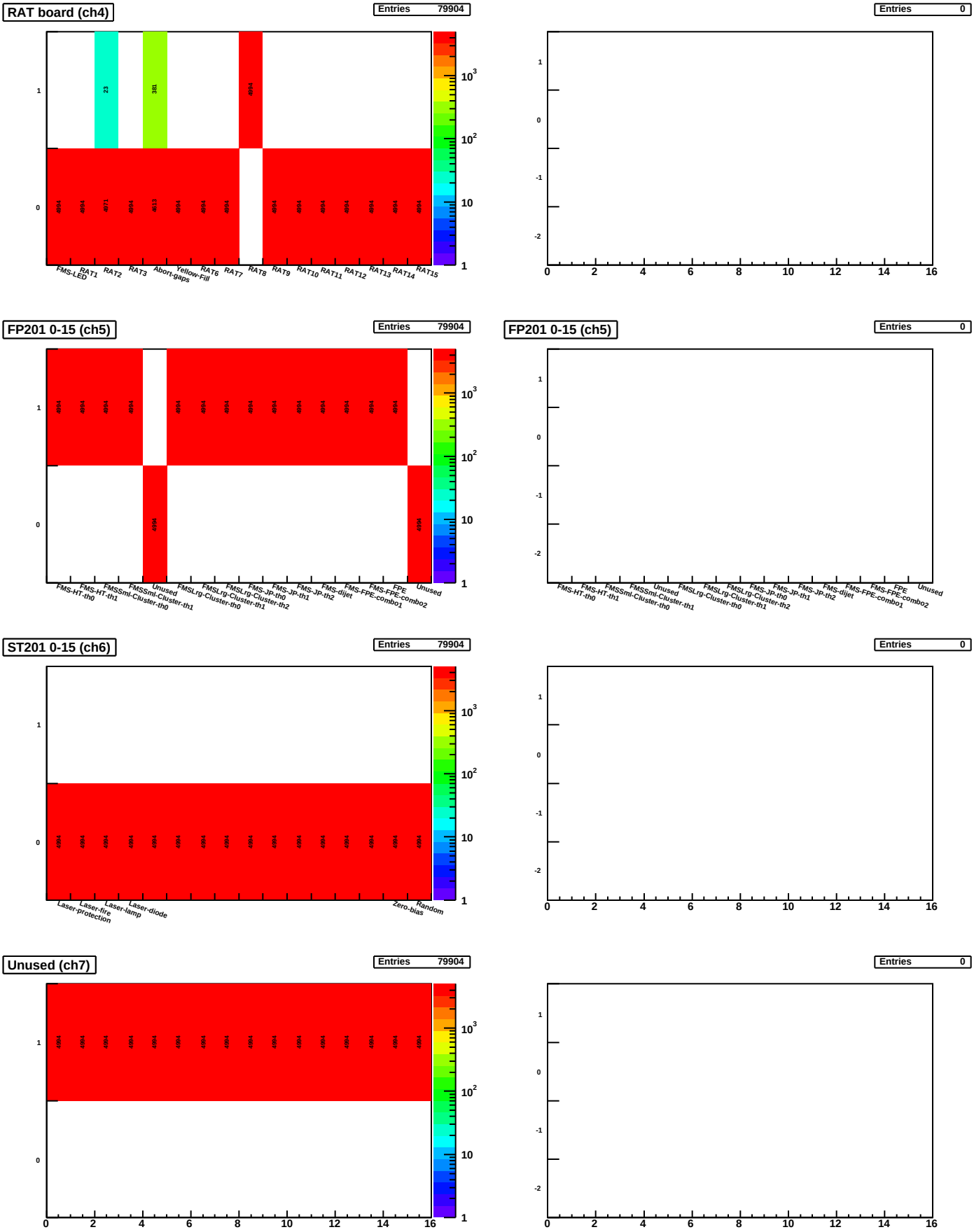

VT201 0-15 (ch1)
Entries 22
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


Unused (ch2)
Entries 79904


Entries 0


EM201 0-15 (ch3)
Entries 79904
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 79904
Entries 0
FMS-LED
RAT1
RAT2
RAT3
Abort-gaps
Yellow-Fill
RAT6
RAT7
RAT8
RAT9
RAT10
RAT11
RAT12
RAT13
RAT14
RAT15
FP201 0-15 (ch5)
Entries 79904
Entries 0
FMS-HT-th0
FMS-HT-th1
FMSSml-Cluster-th0
FMSSml-Cluster-th1
Unused
FMSLrg-Cluster-th0
FMSLrg-Cluster-th1
FMSLrg-Cluster-th2
FMS-JP-th0
FMS-JP-th1
FMS-JP-th2
FMS-diJet
FMS-FPE-combo1
FPE
FMS-FPE-combo2
Unused
ST201 0-15 (ch6)
Entries 79904
Entries 0
Laser-protection
Laser-fire
Laser-lamp
Laser-diode
Zero-bias
Random
Unused (ch7)
Entries 79904
Entries 0