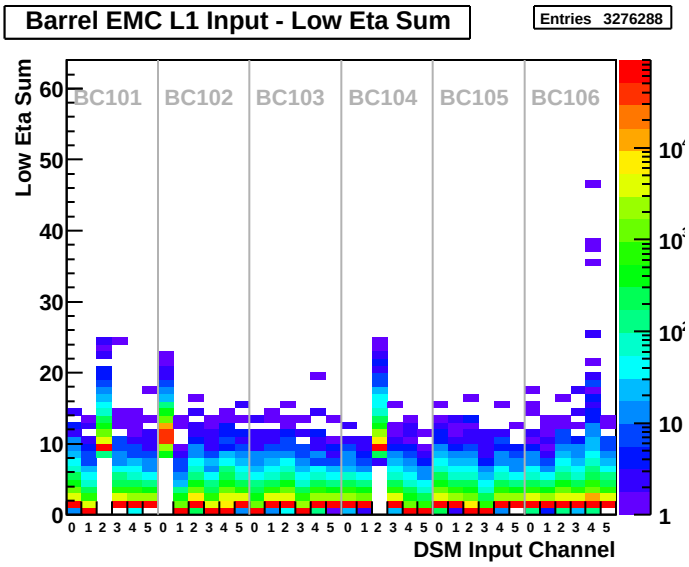
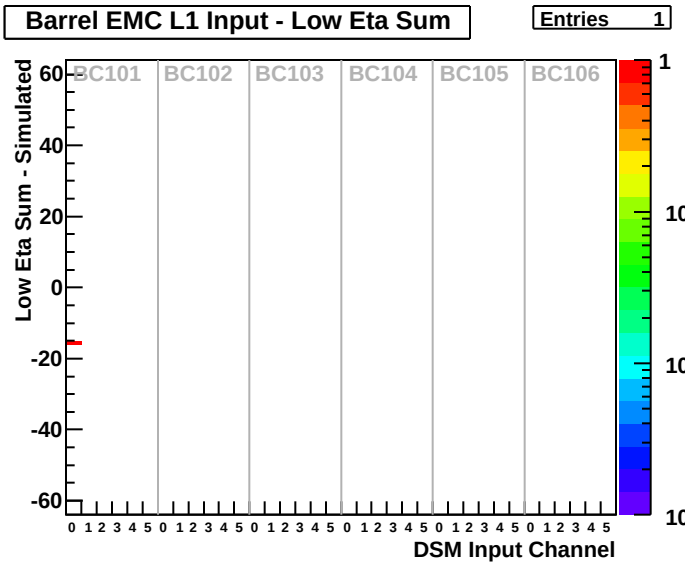
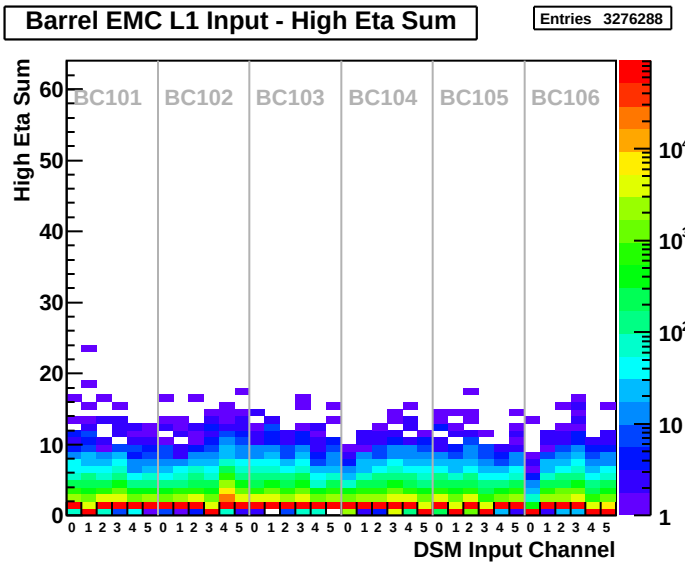
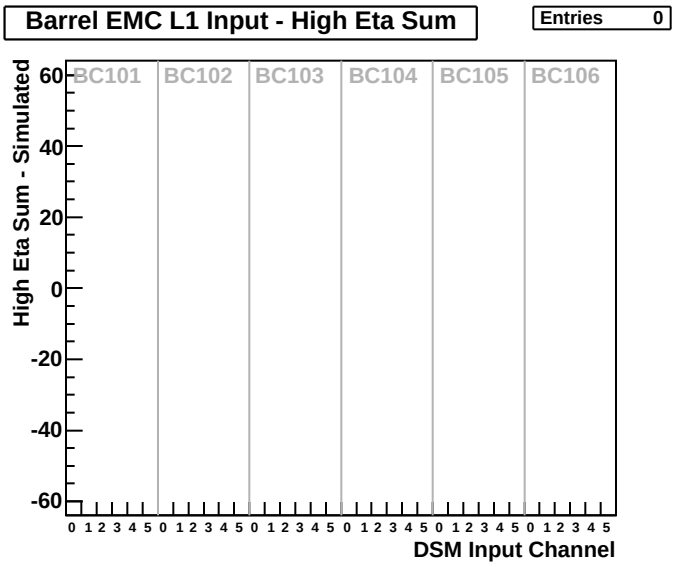
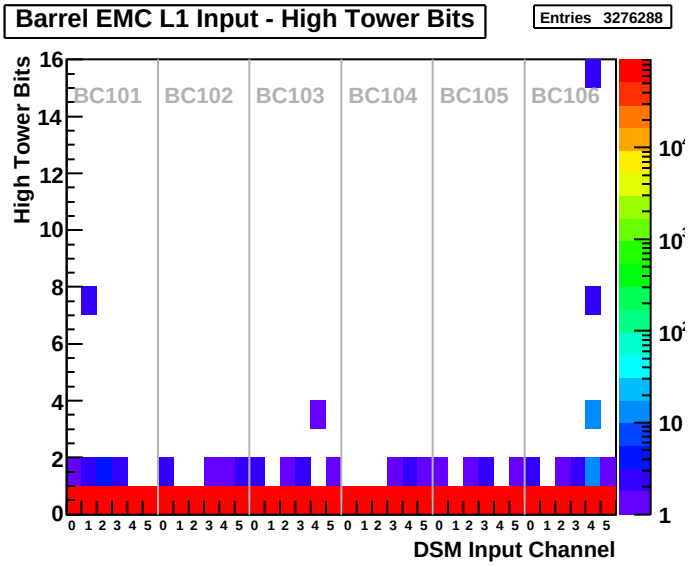
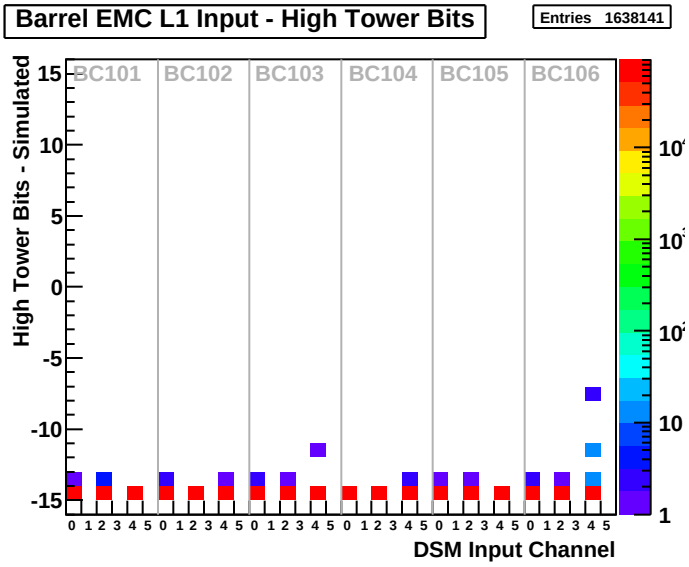

Barrel EMC L1 Input - Low Eta Sum
Entries 3276288
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

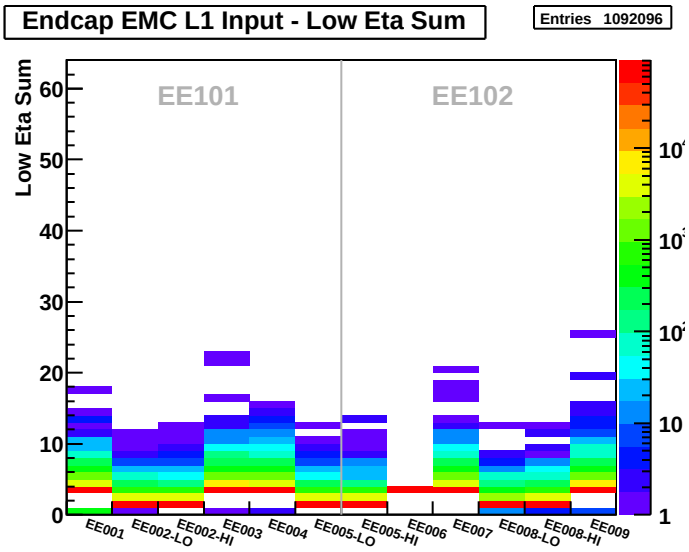

Barrel EMC L1 Input - Low Eta Sum
Entries 1
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

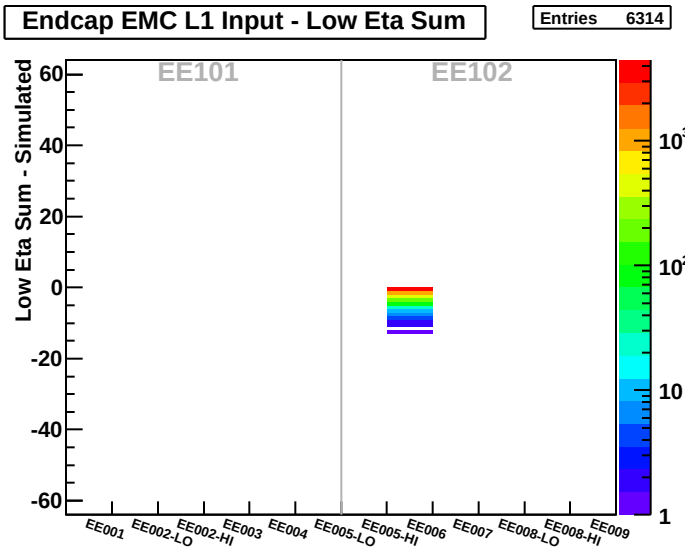

Barrel EMC L1 Input - High Eta Sum
Entries 3276288
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

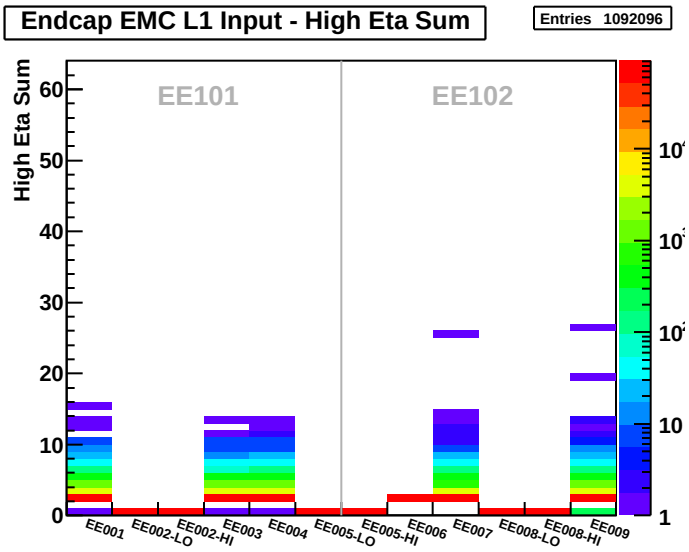

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

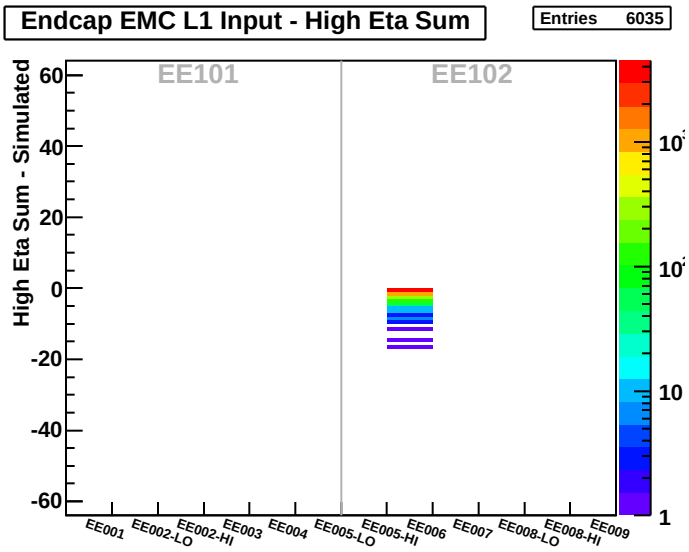

Barrel EMC L1 Input - High Tower Bits
Entries 3276288
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

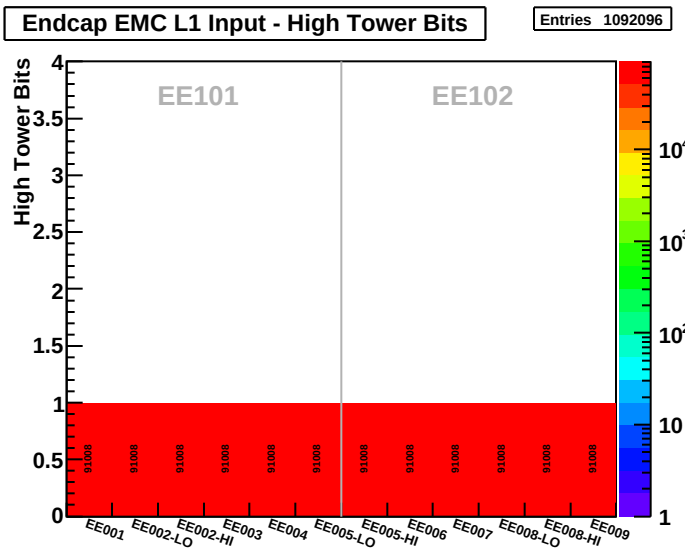

Barrel EMC L1 Input - High Tower Bits
Entries 1638141
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

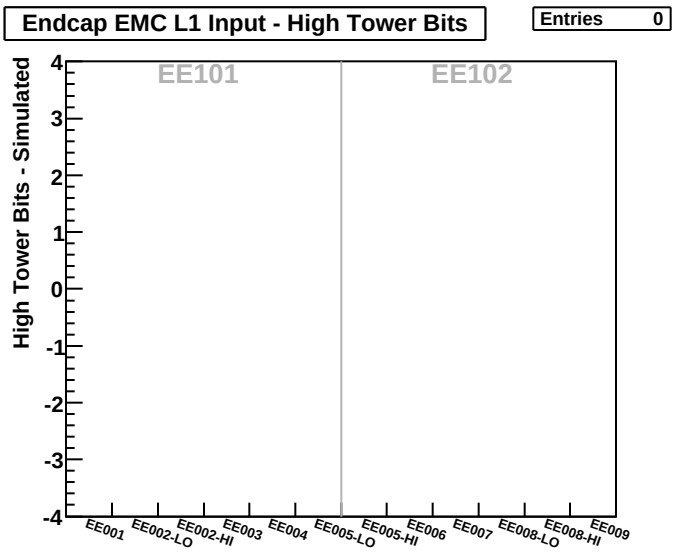

Endcap EMC L1 Input - Low Eta Sum
Entries 1092096
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

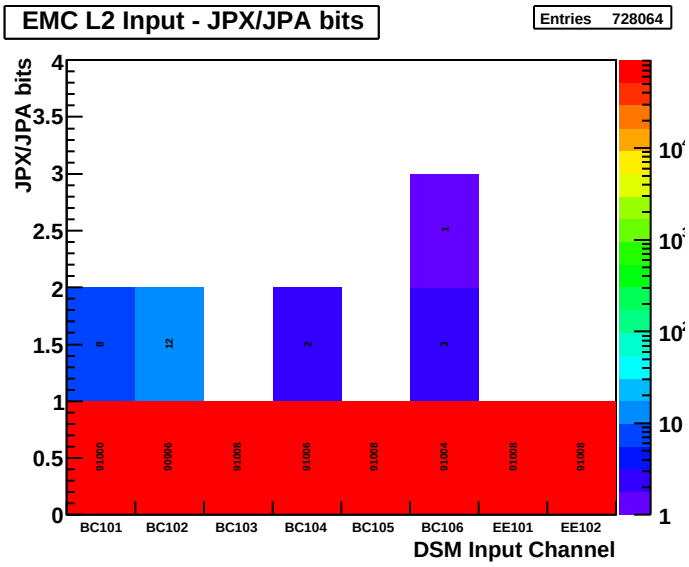

Endcap EMC L1 Input - Low Eta Sum
Entries 6314
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

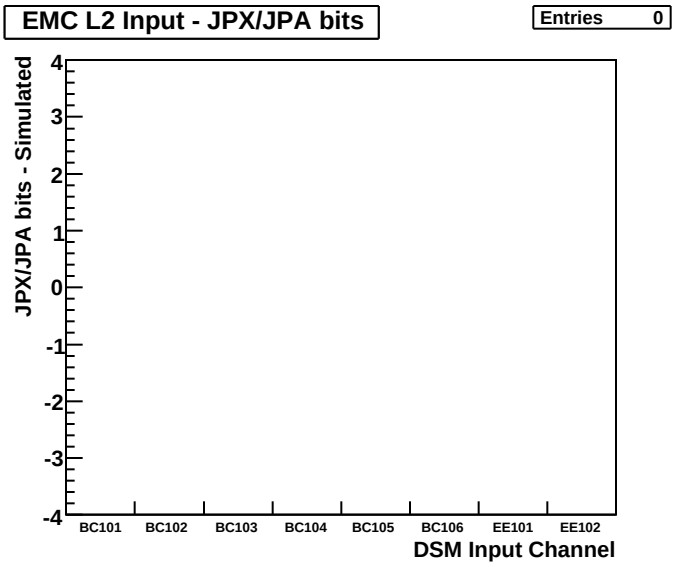

Endcap EMC L1 Input - High Eta Sum
Entries 1092096
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

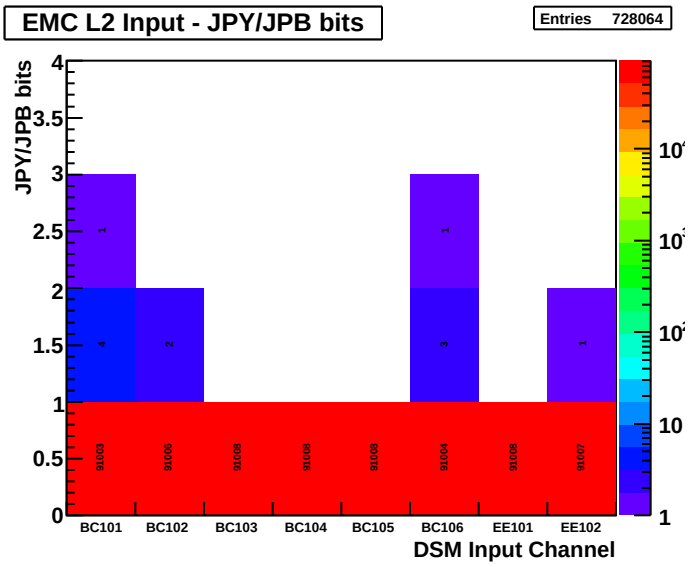

Endcap EMC L1 Input - High Eta Sum
Entries 6035
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

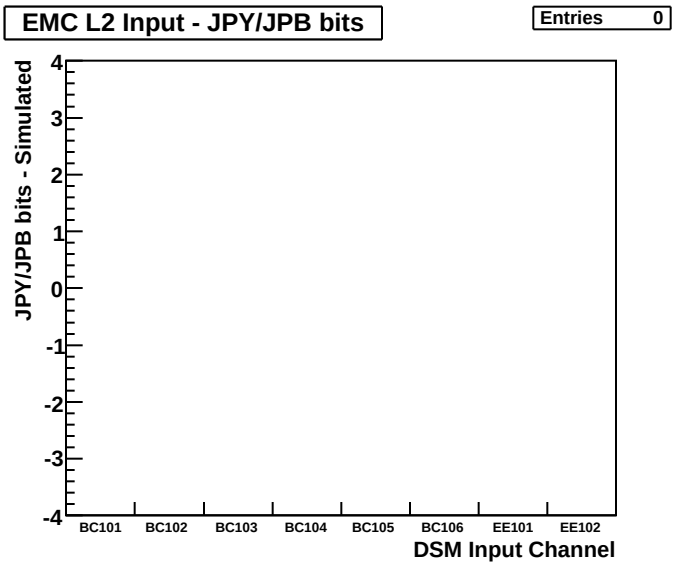

Endcap EMC L1 Input - High Tower Bits
Entries 1092096
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

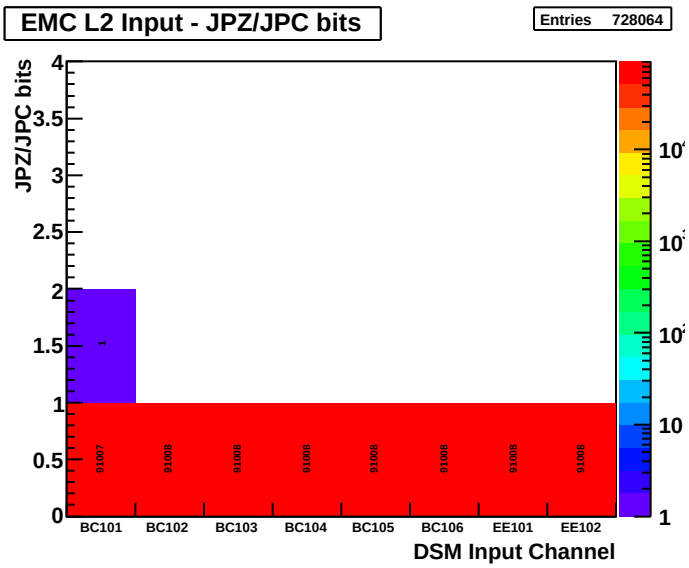

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

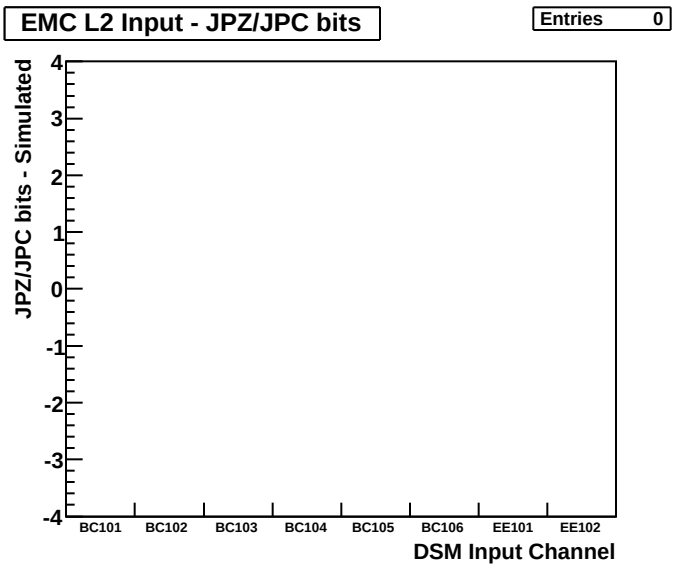

EMC L2 Input - JPX/JPA bits
Entries 728064
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

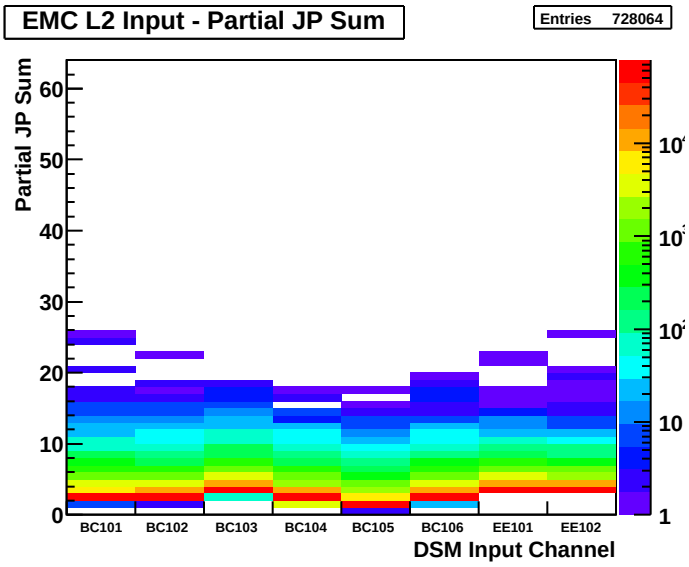

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

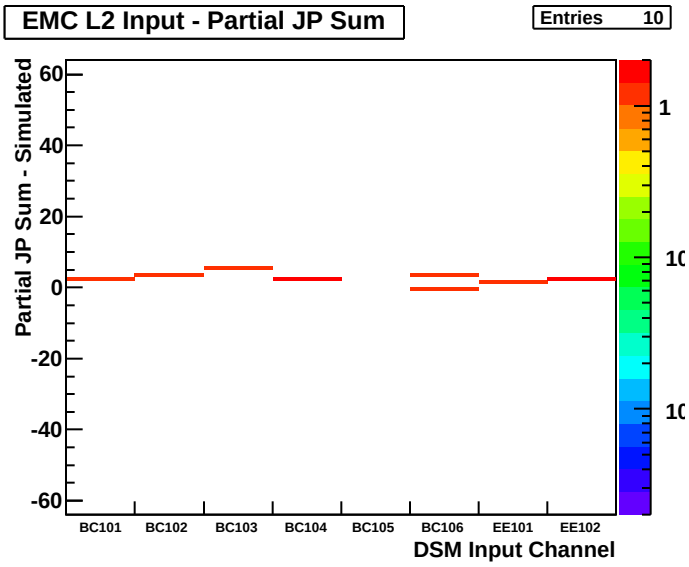

EMC L2 Input - JPY/JPB bits
Entries 728064
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

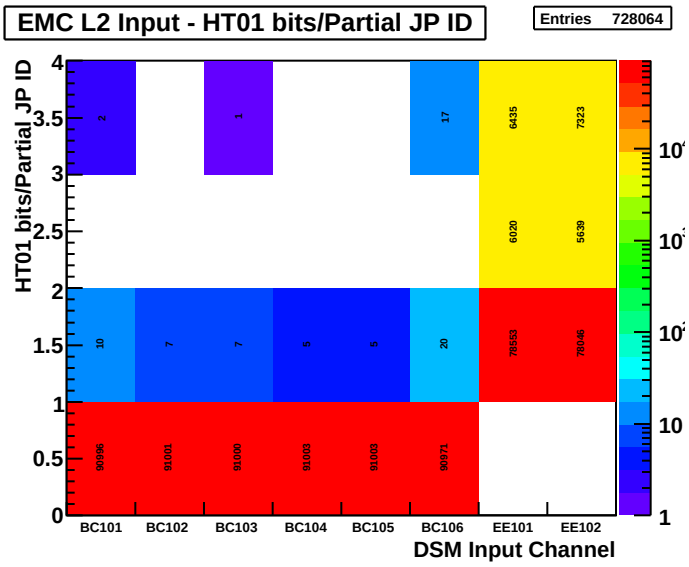

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

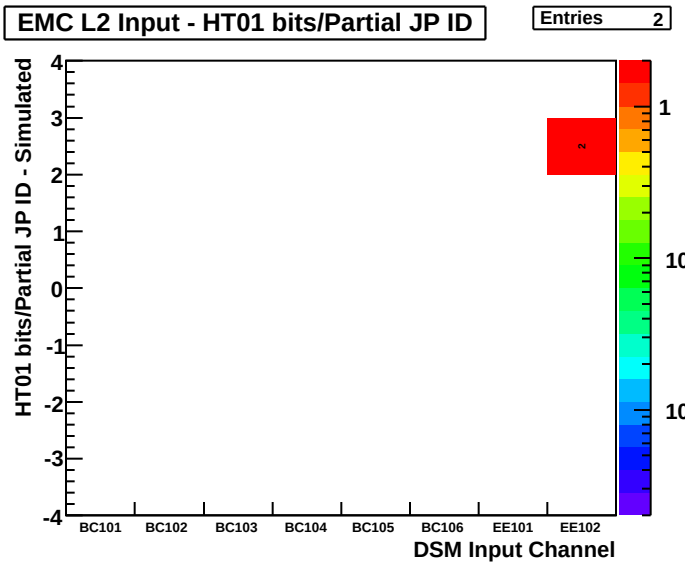

EMC L2 Input - JPZ/JPC bits
Entries 728064
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

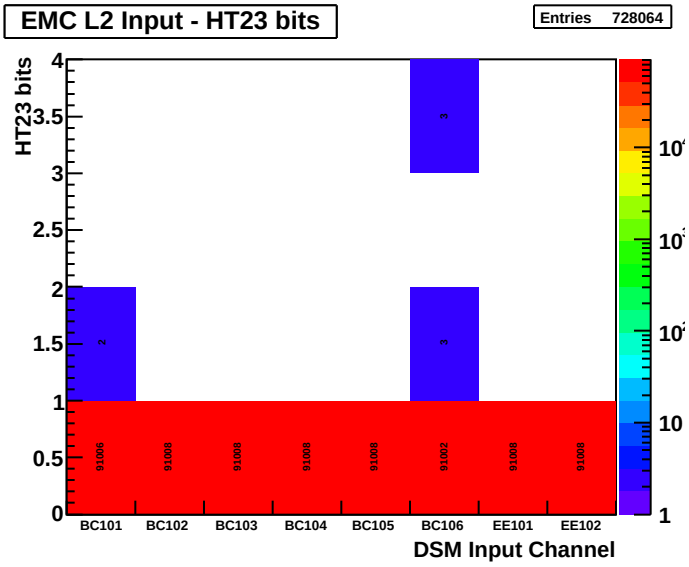

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

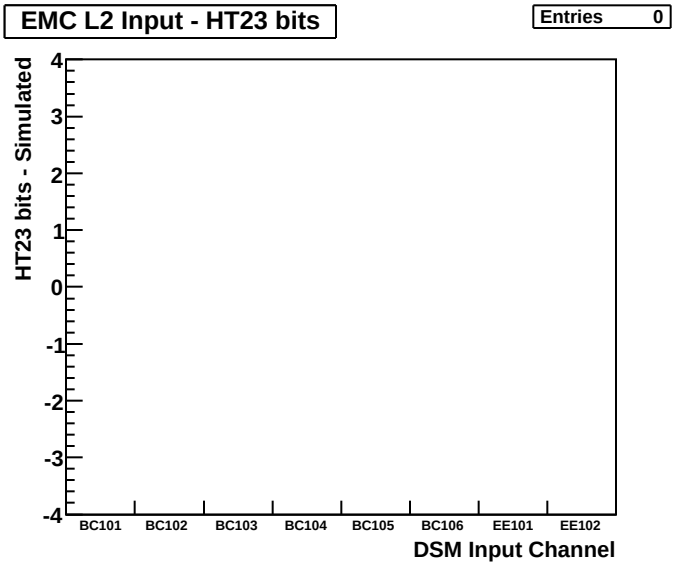

EMC L2 Input - Partial JP Sum
Entries 728064
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

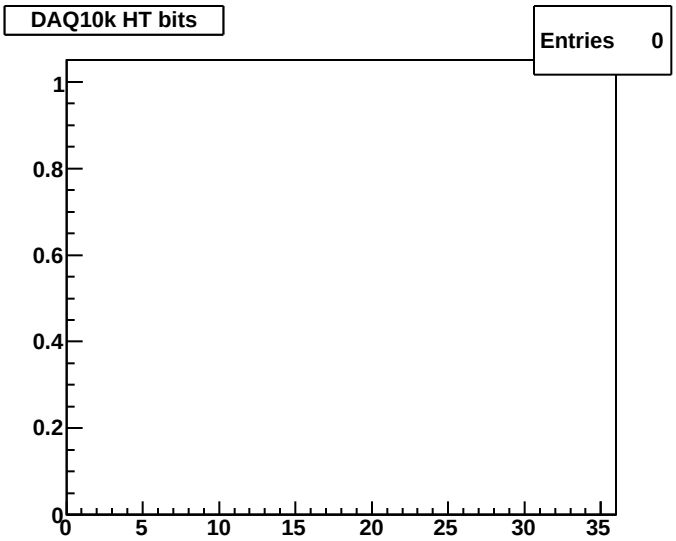

EMC L2 Input - Partial JP Sum
Entries 10
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

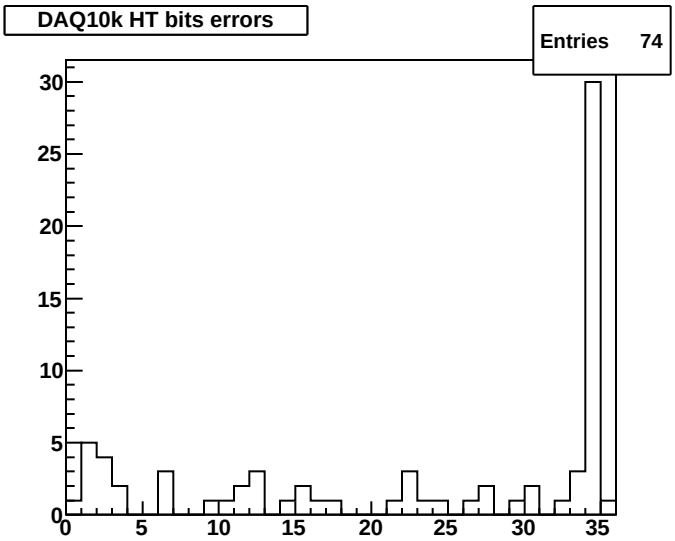

EMC L2 Input - HT01 bits/Partial JP ID
Entries 728064
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

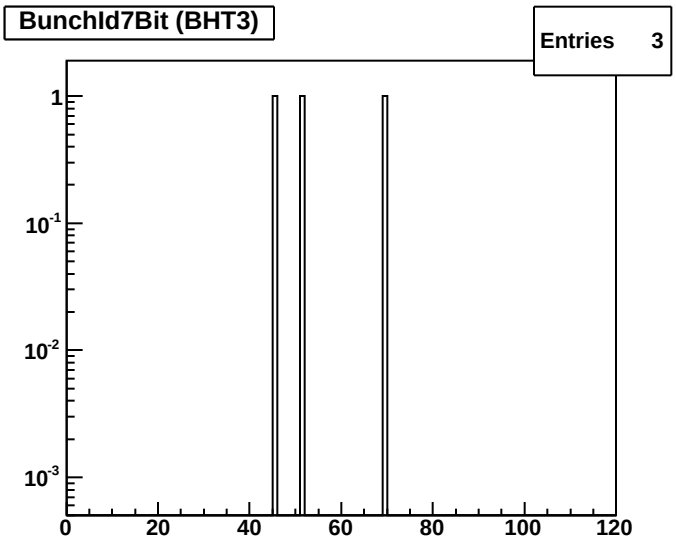

EMC L2 Input - HT01 bits/Partial JP ID
Entries 2
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

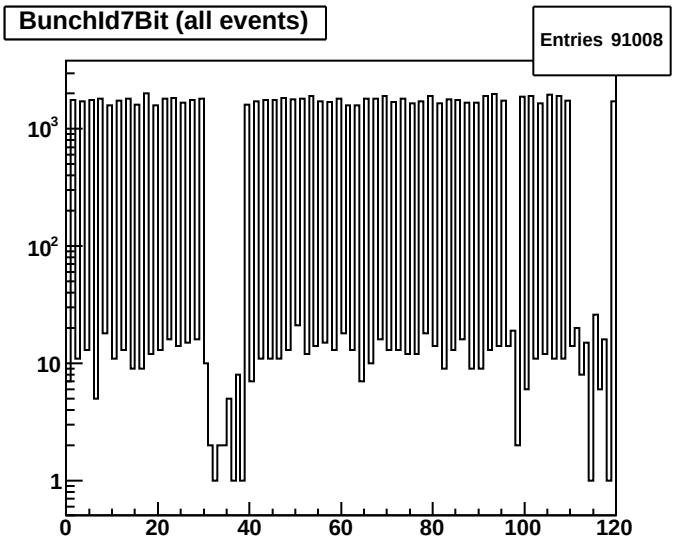

EMC L2 Input - HT23 bits
Entries 728064
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

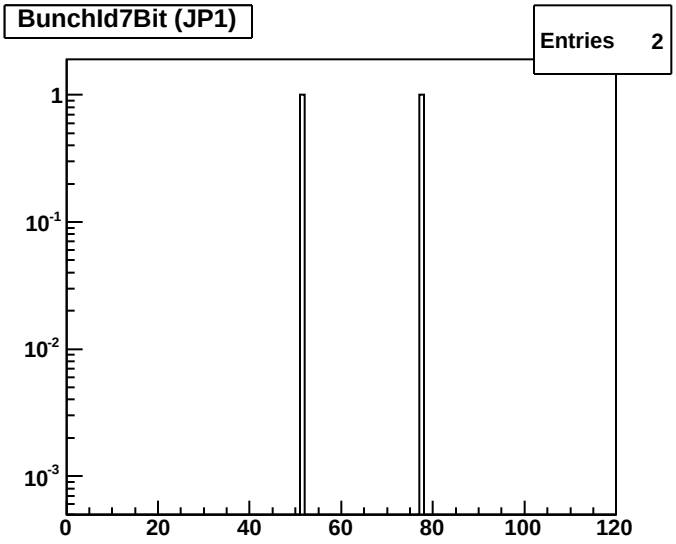

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

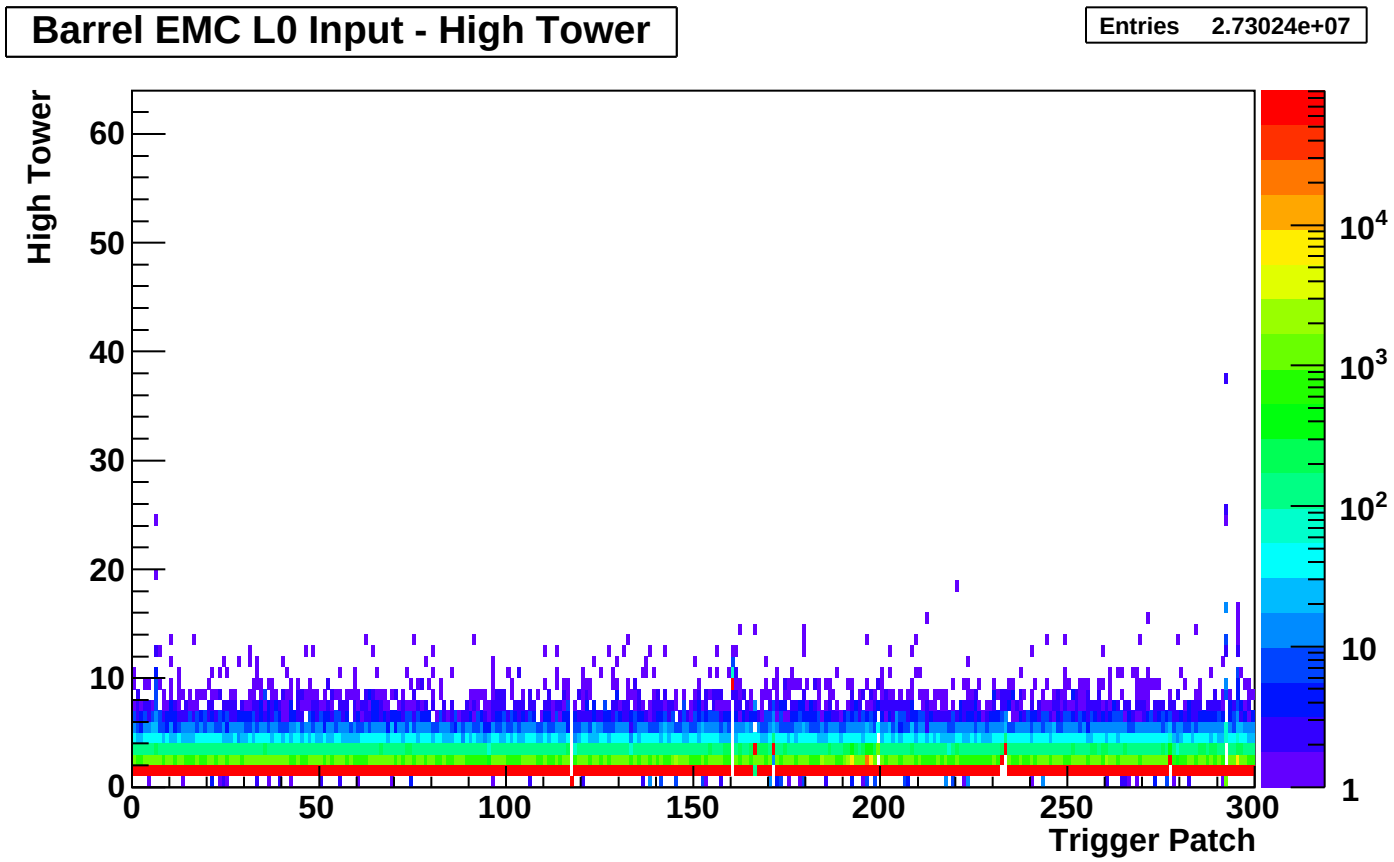

DAQ10k HT bits
Entries 0

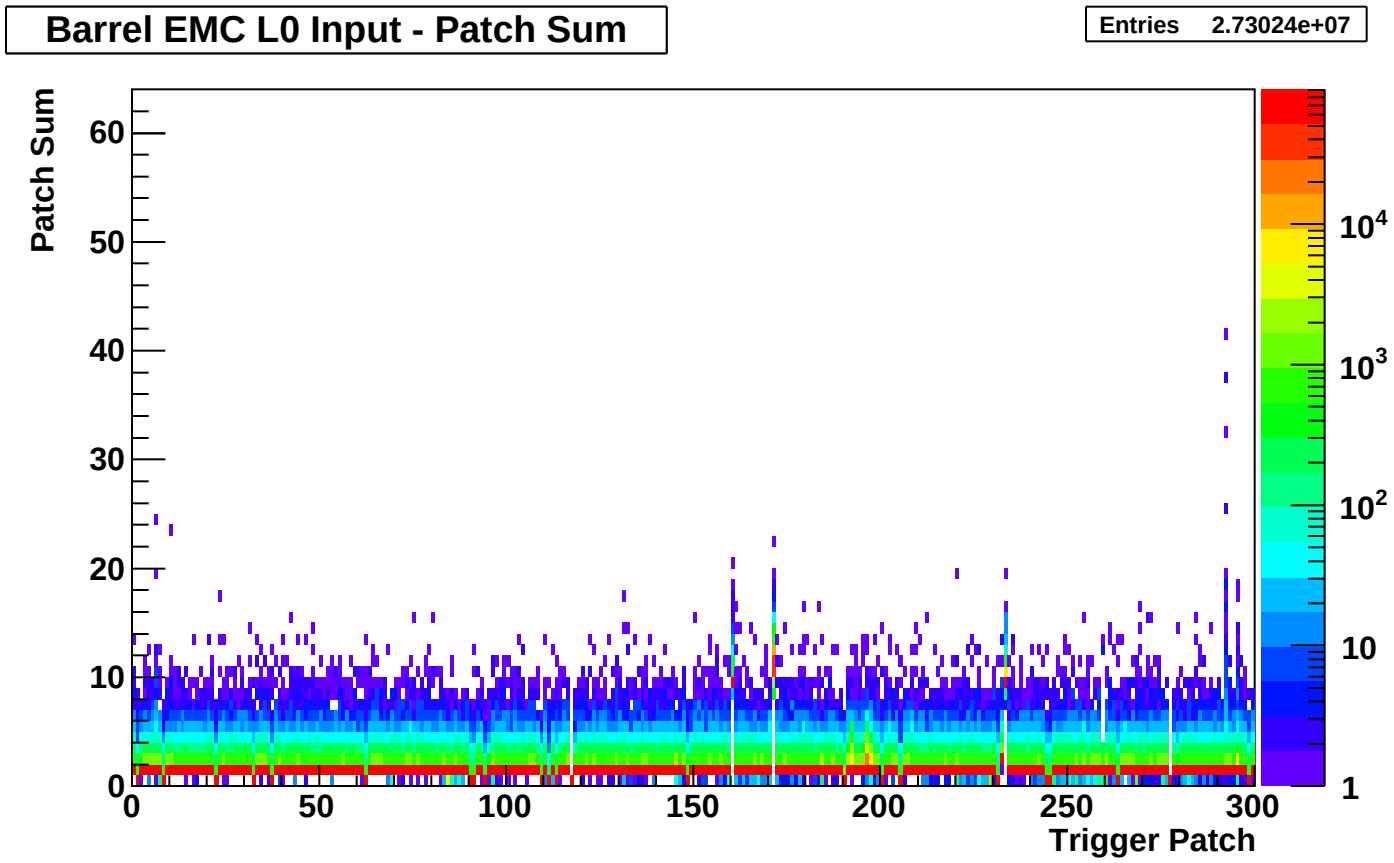

DAQ10k HT bits errors
Entries 74

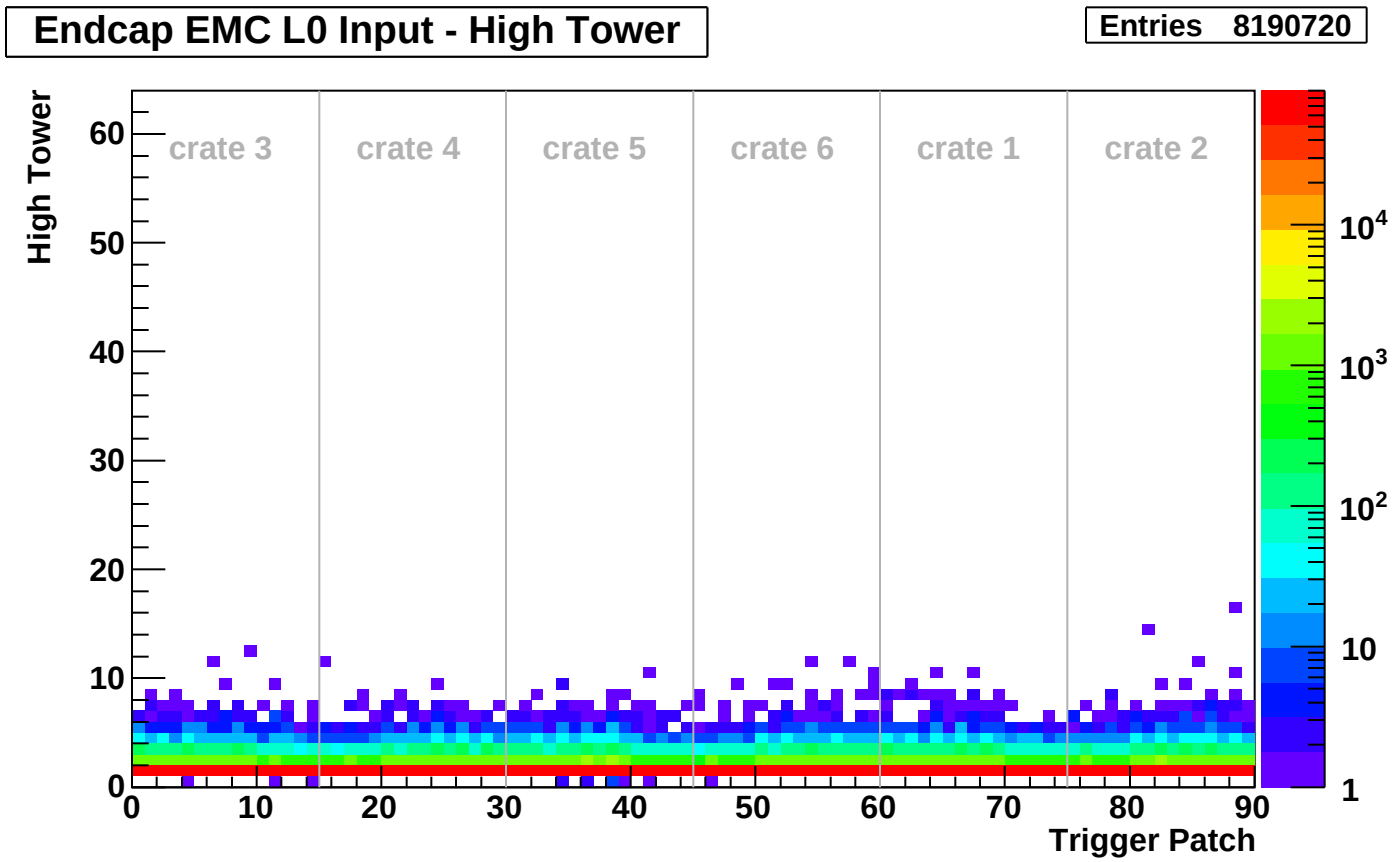

BunchId7Bit (BHT3)
Entries 3

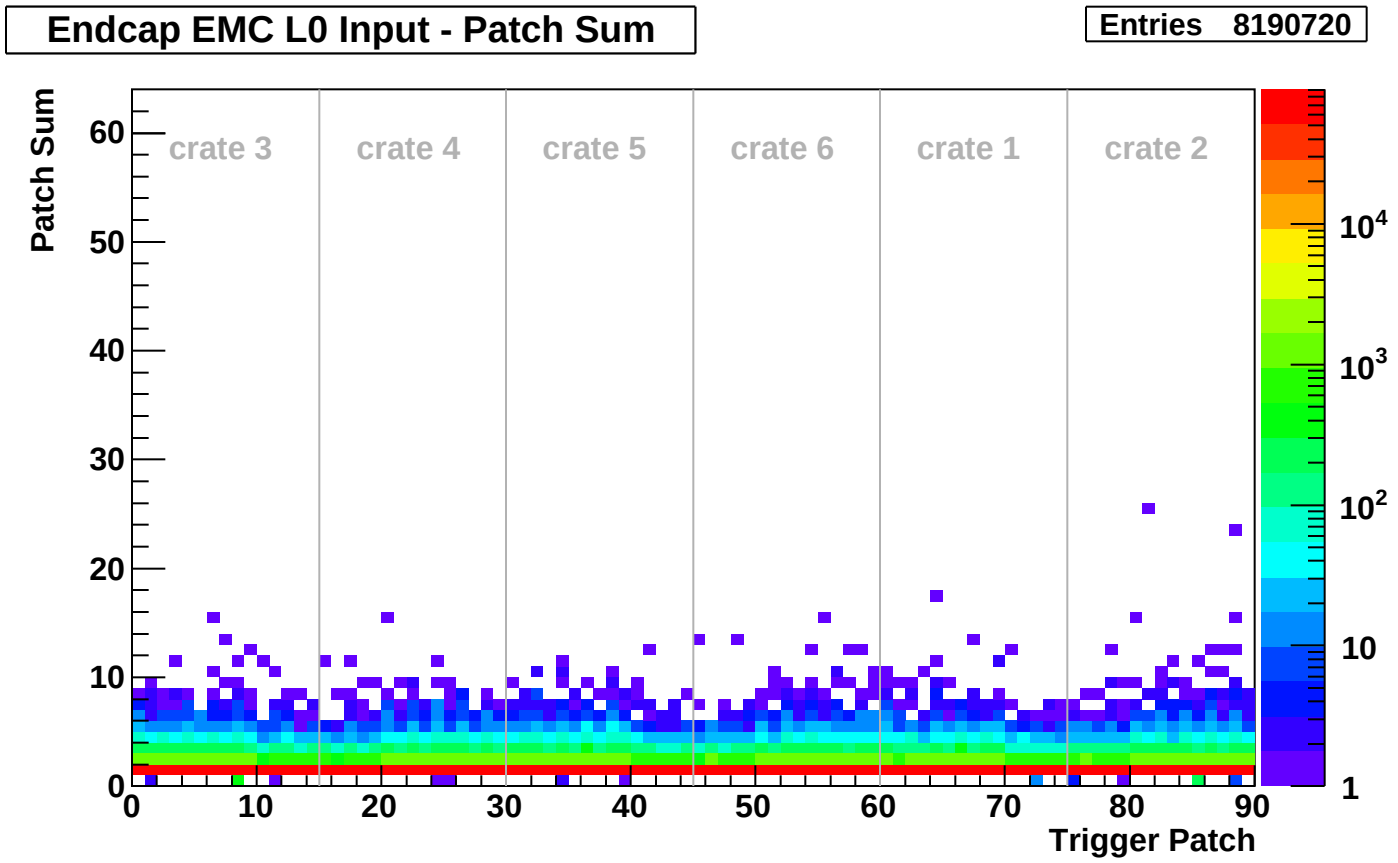

BunchId7Bit (all events)
Entries 91008

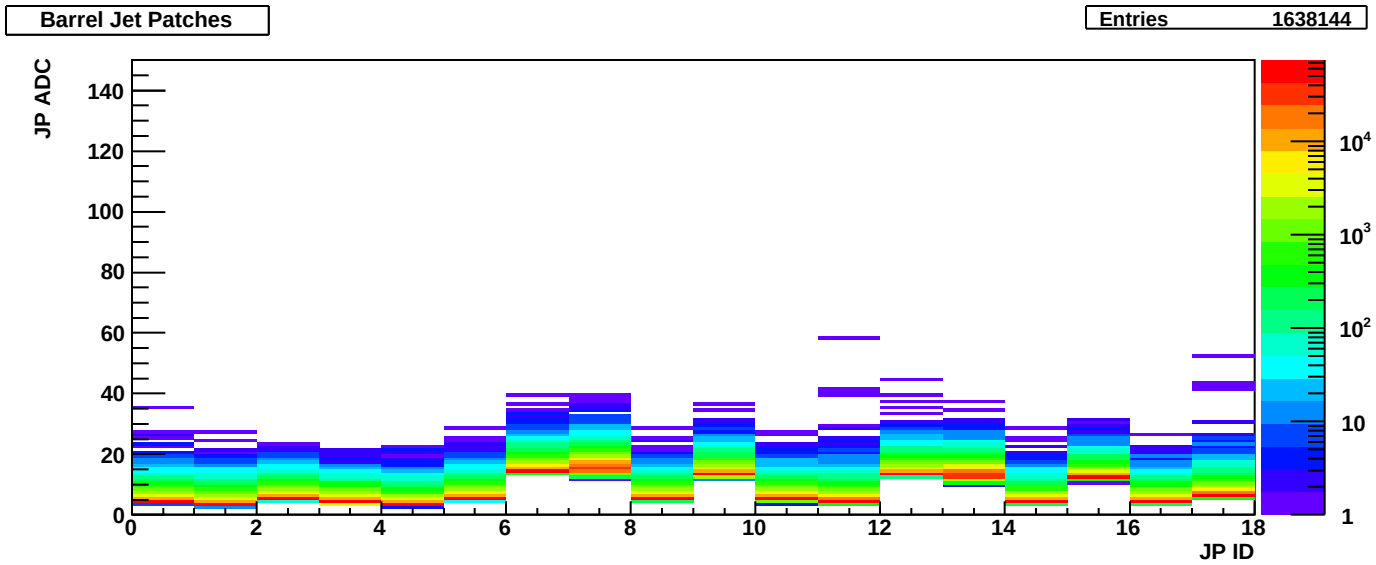

BunchId7Bit (JP1)
Entries 2

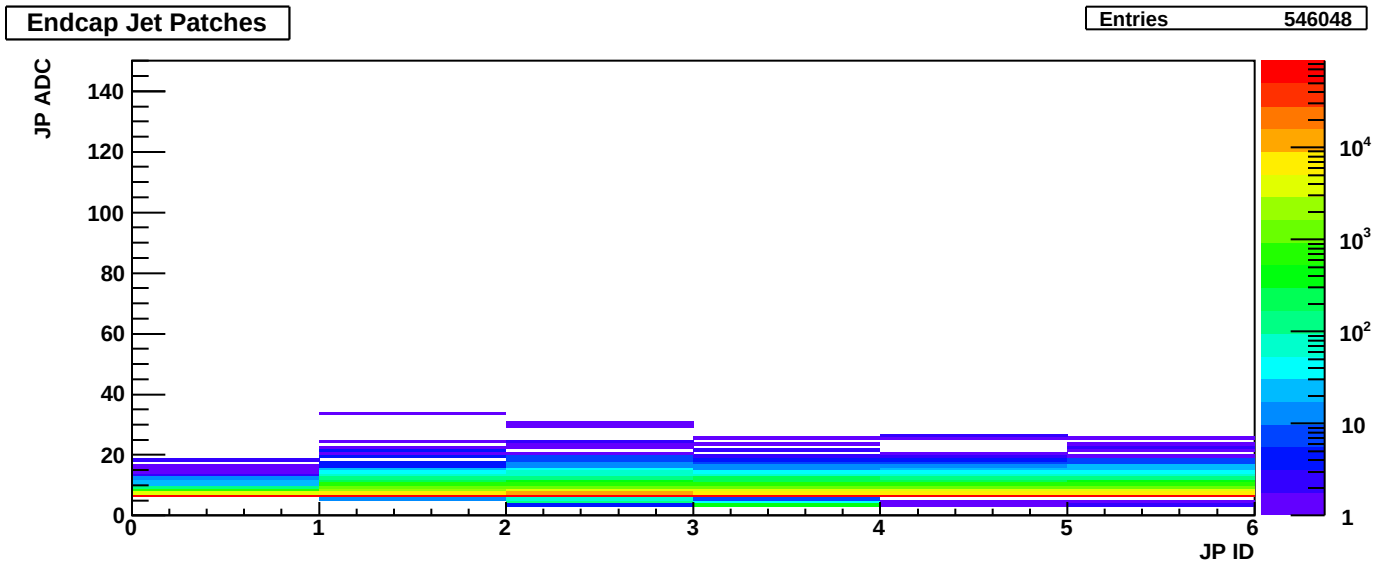

Barrel EMC L0 Input - High Tower
Entries 2.73024e+07
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

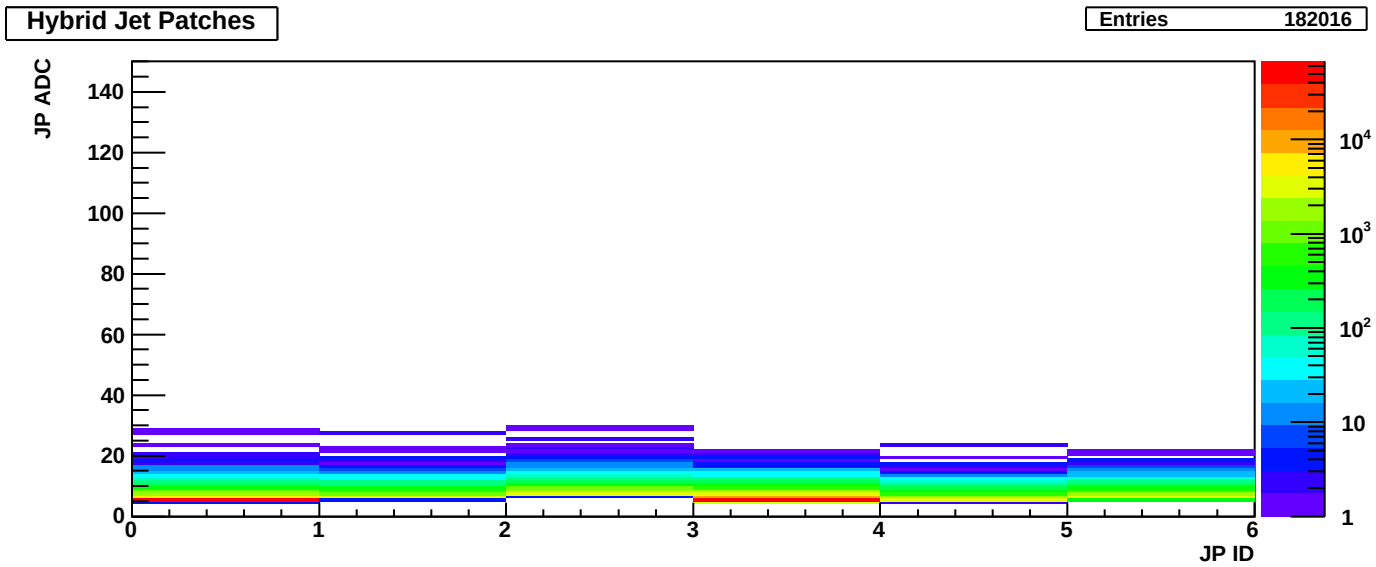

Barrel EMC L0 Input - Patch Sum
Entries 2.73024e+07
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4

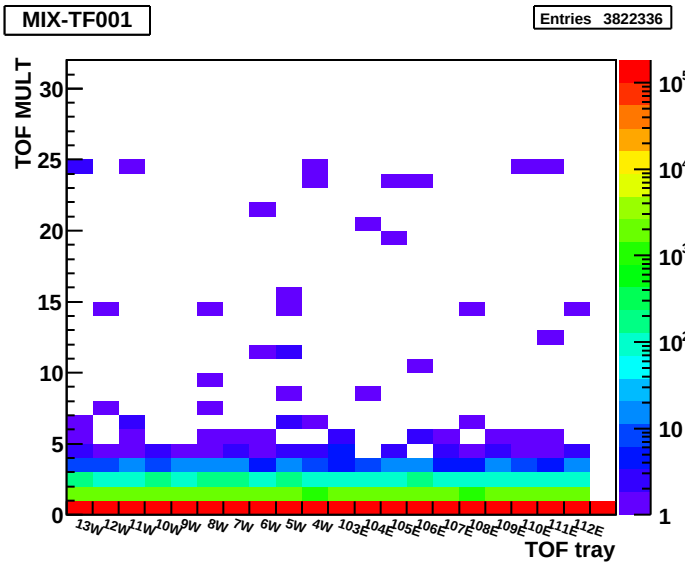

Endcap EMC L0 Input - High Tower
Entries 8190720
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

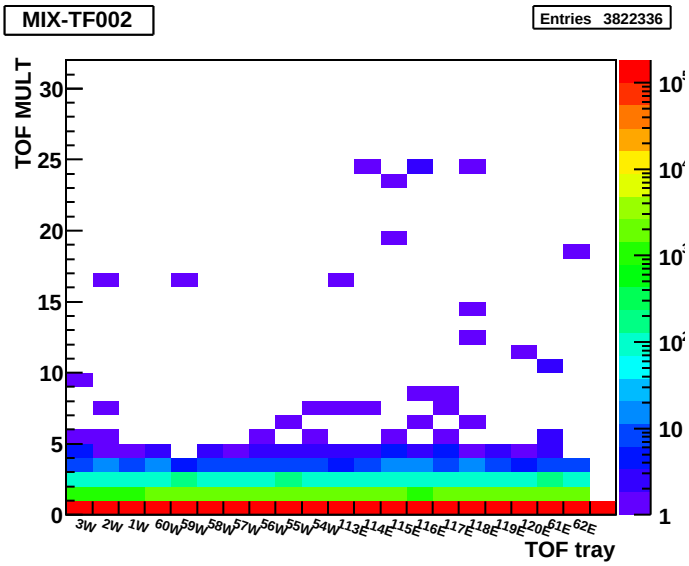

Endcap EMC L0 Input - Patch Sum
Entries 8190720
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

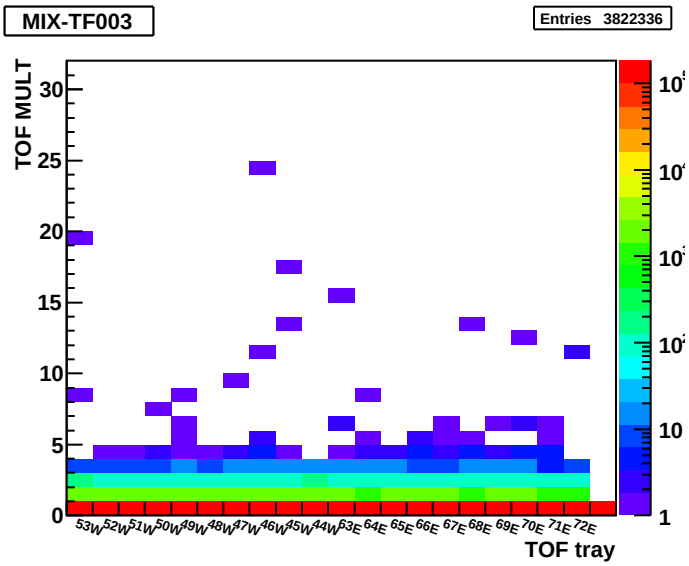

Barrel Jet Patches
Entries 1638144
JP ADC
JP ID

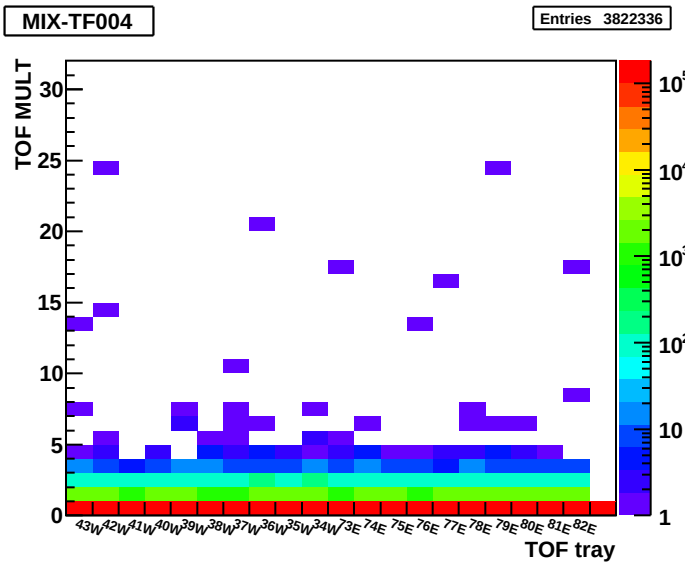

Endcap Jet Patches
Entries 546048
JP ADC
JP ID

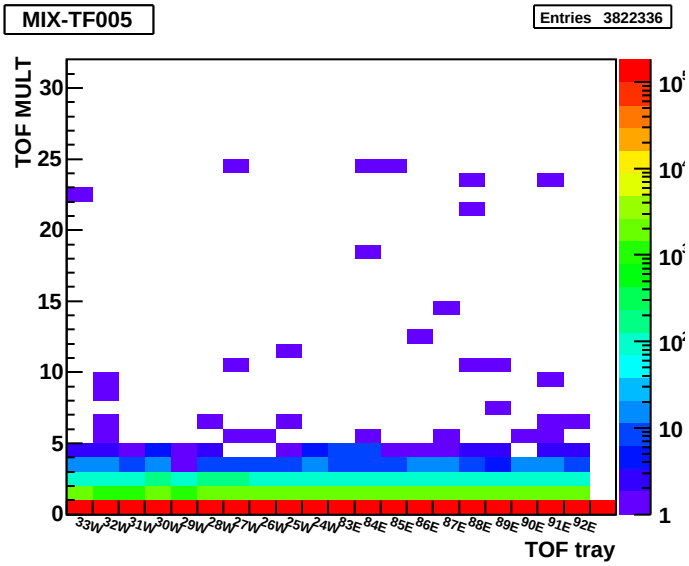

Hybrid Jet Patches
Entries 182016
JP ADC
JP ID

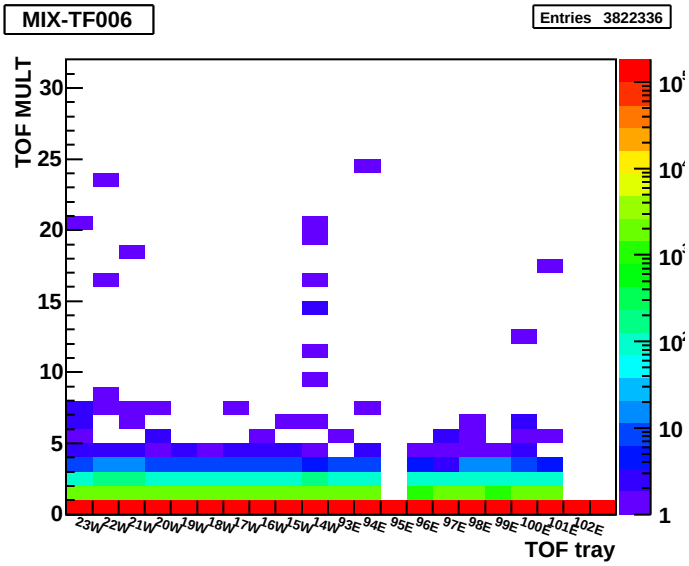

MIX-TF001
Entries 3822336
TOF MULT
TOF tray

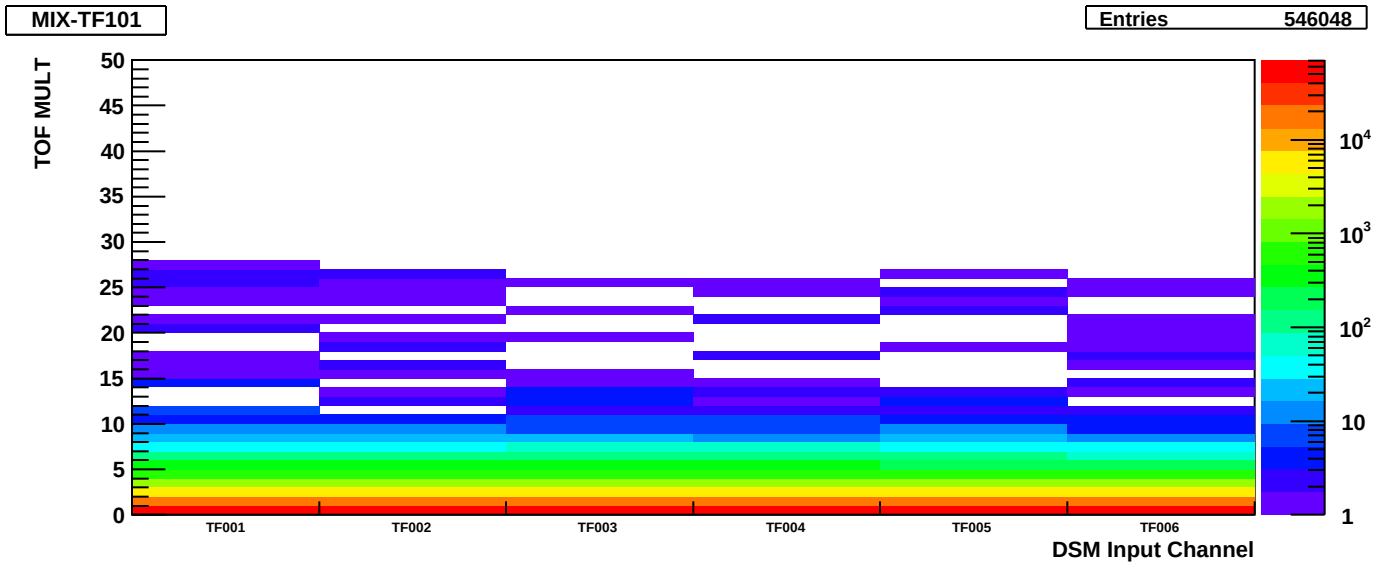

MIX-TF002
Entries 3822336
TOF MULT
TOF tray

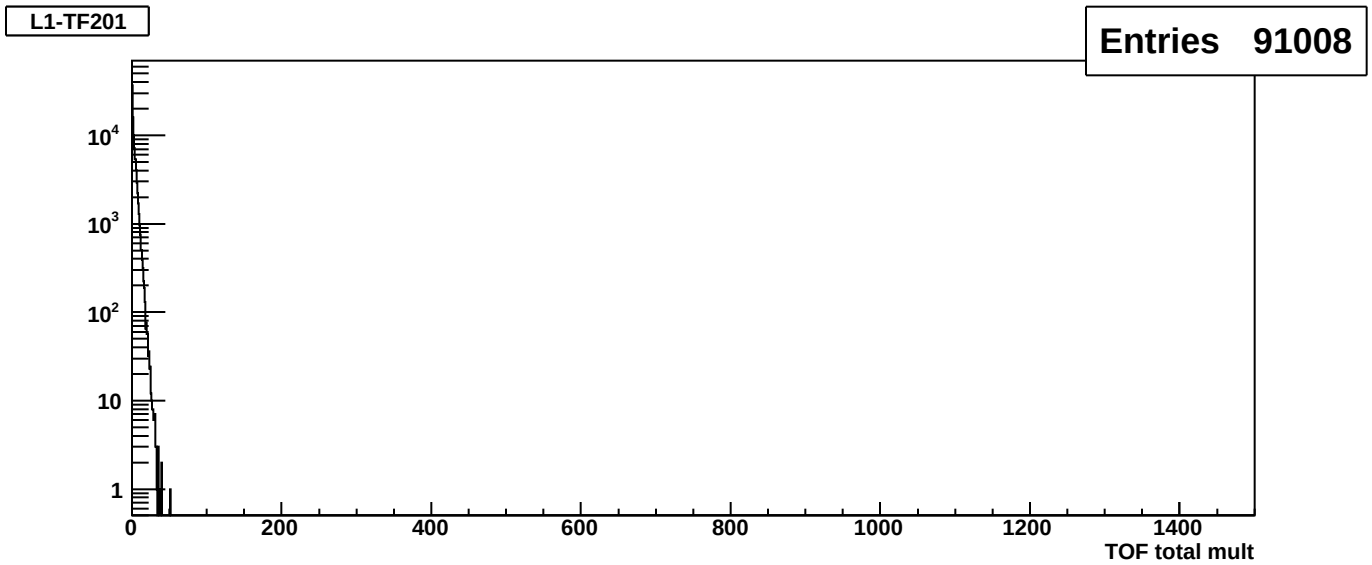

MIX-TF003
Entries 3822336
TOF MULT
TOF tray

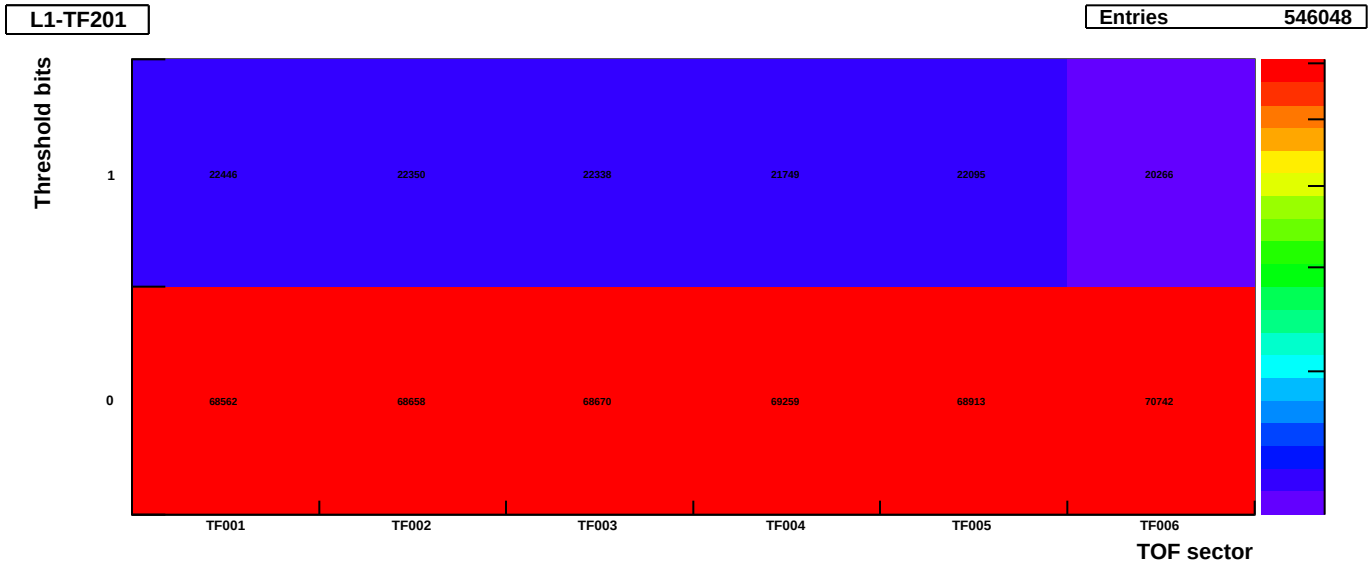

MIX-TF004
Entries 3822336
TOF MULT
TOF tray

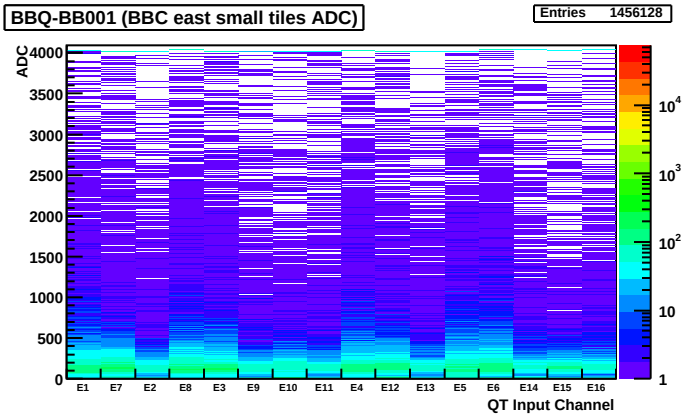

MIX-TF005
Entries 3822336
TOF MULT
TOF tray

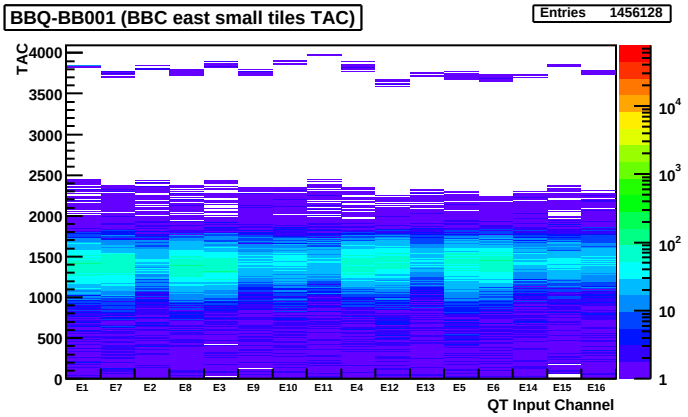

MIX-TF006
Entries 3822336
TOF MULT
TOF tray

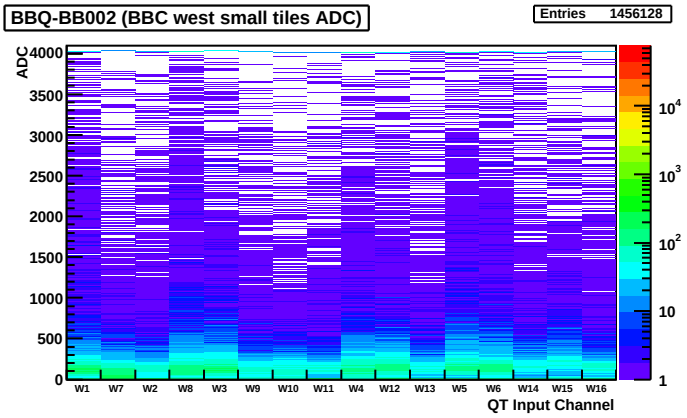

MIX-TF101
Entries 546048
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

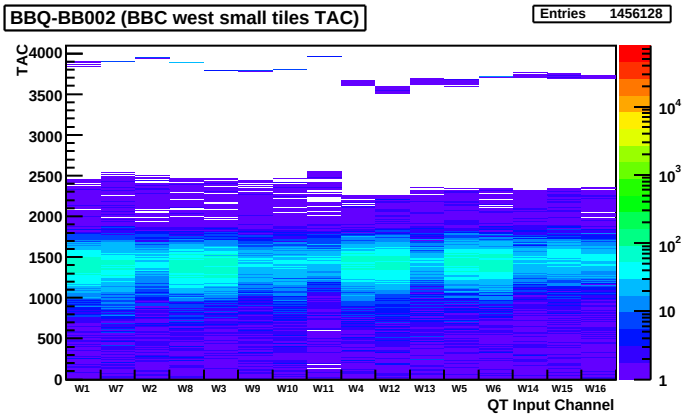

L1-TF201
Entries 91008
TOF total mult

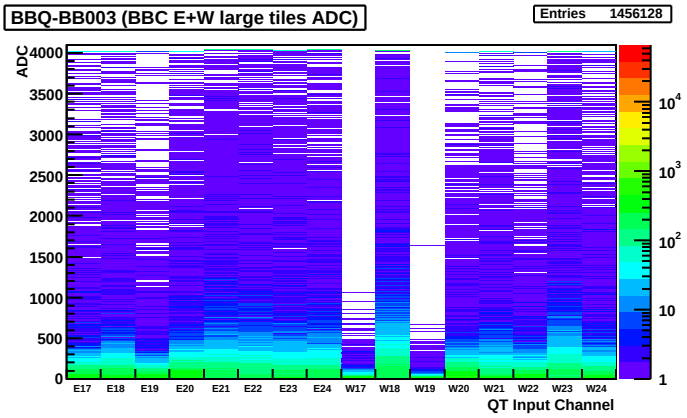

L1-TF201
Entries 546048
Threshold bits
22446
22350
22338
21749
22095
20266
68562
68658
68670
69259
68913
70742
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

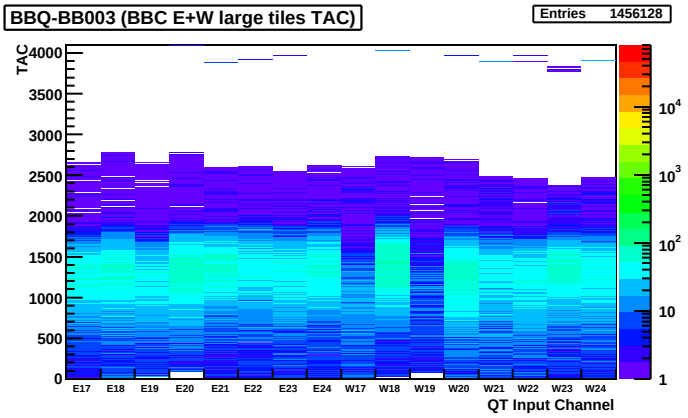

BBQ-BB001 (BBC east small tiles ADC)
Entries 1456128
ADC
QT Input Channel

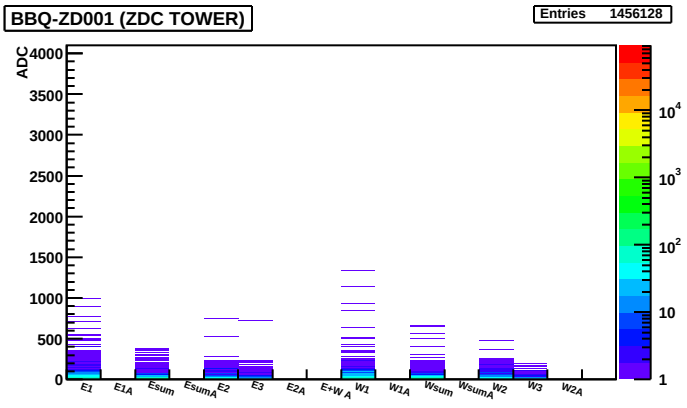

BBQ-BB001 (BBC east small tiles TAC)
Entries 1456128
TAC
QT Input Channel

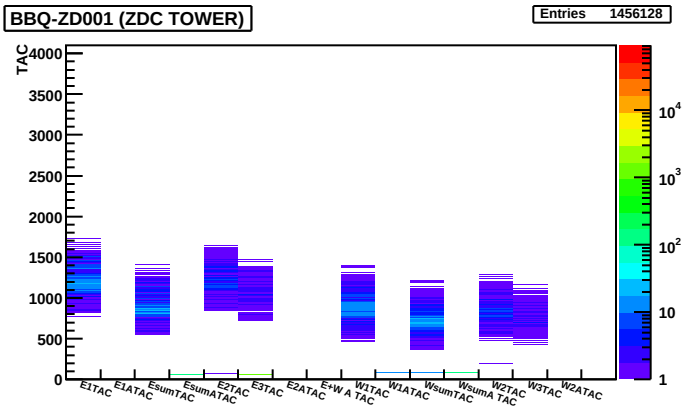

BBQ-BB002 (BBC west small tiles ADC)
Entries 1456128
ADC
QT Input Channel

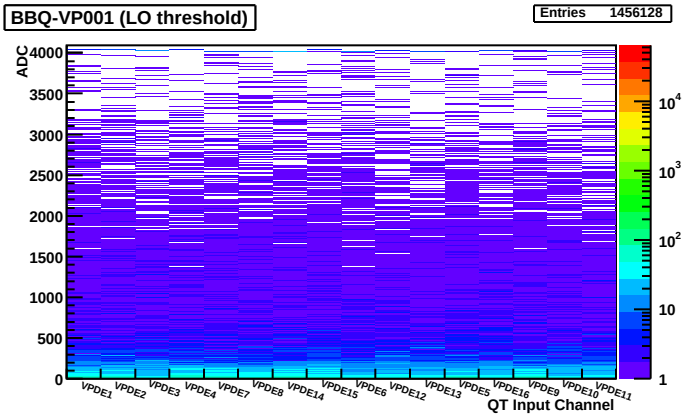

BBQ-BB002 (BBC west small tiles TAC)
Entries 1456128
TAC
QT Input Channel

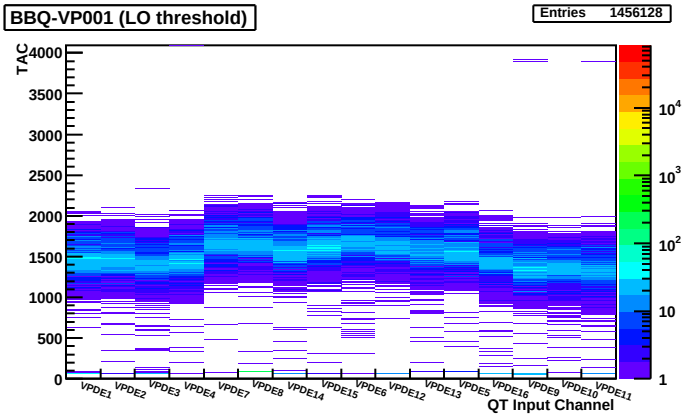

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1456128
ADC
QT Input Channel

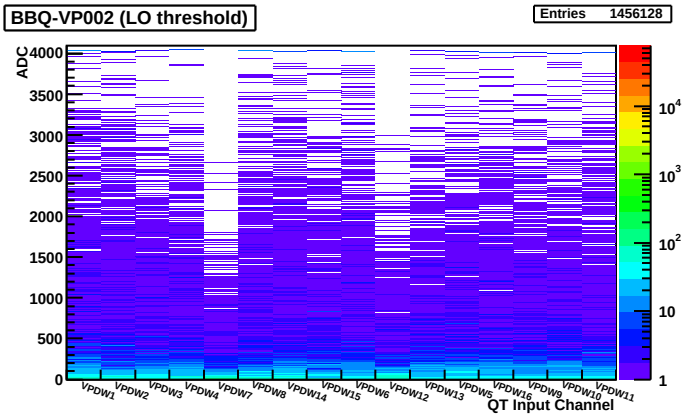

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1456128
TAC
QT Input Channel

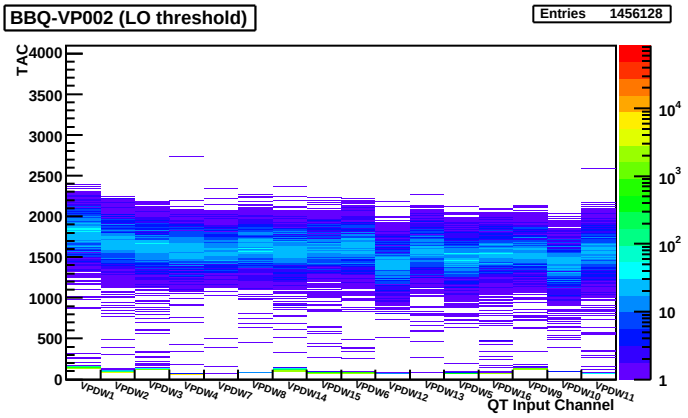

BBQ-ZD001 (ZDC TOWER)
Entries 1456128
ADC

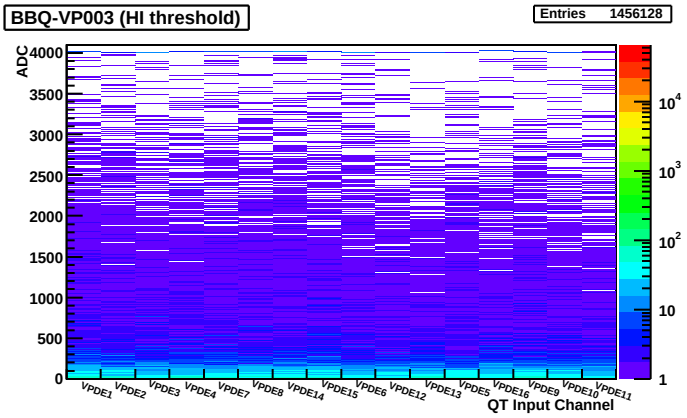

BBQ-ZD001 (ZDC TOWER)
Entries 1456128
TAC

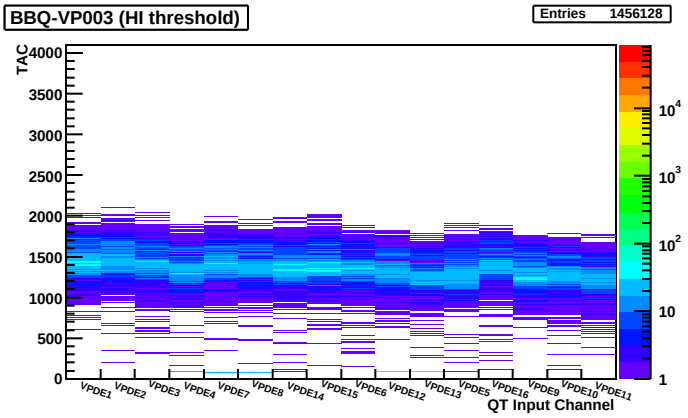

BBQ-VP001 (LO threshold)
Entries 1456128
ADC
QT Input Channel

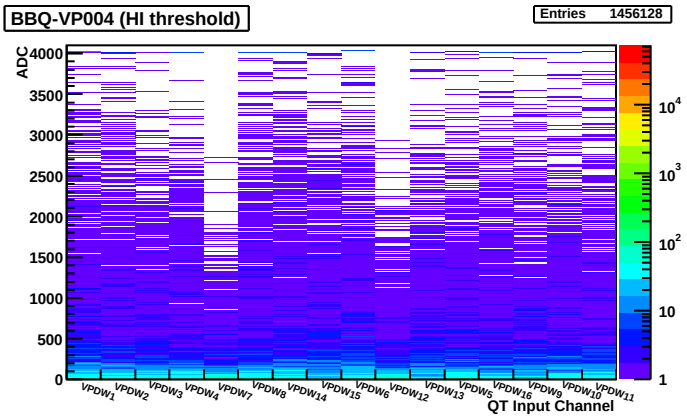

BBQ-VP001 (LO threshold)
Entries 1456128
TAC
QT Input Channel

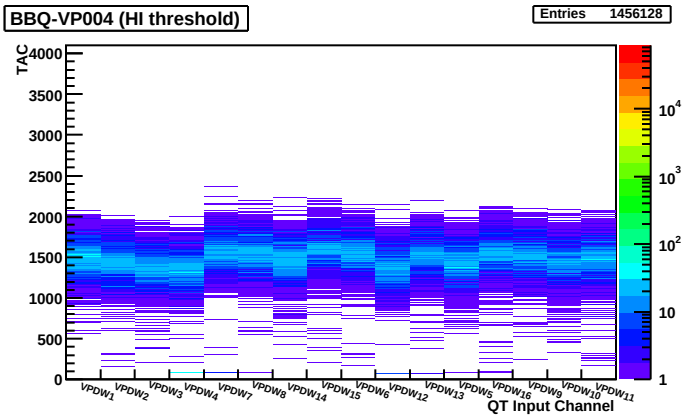

BBQ-VP002 (LO threshold)
Entries 1456128
ADC
QT Input Channel

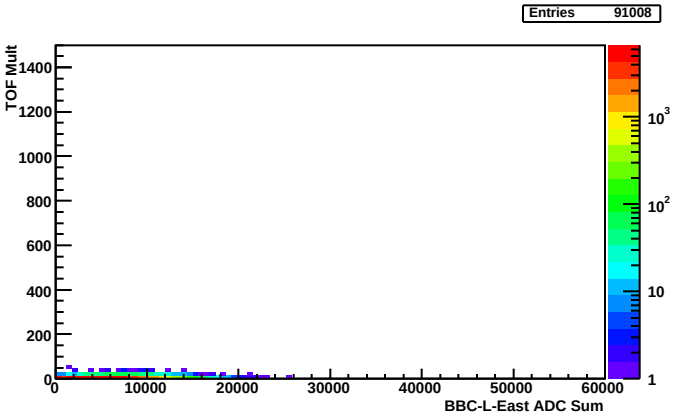

BBQ-VP002 (LO threshold)
Entries 1456128
TAC
QT Input Channel

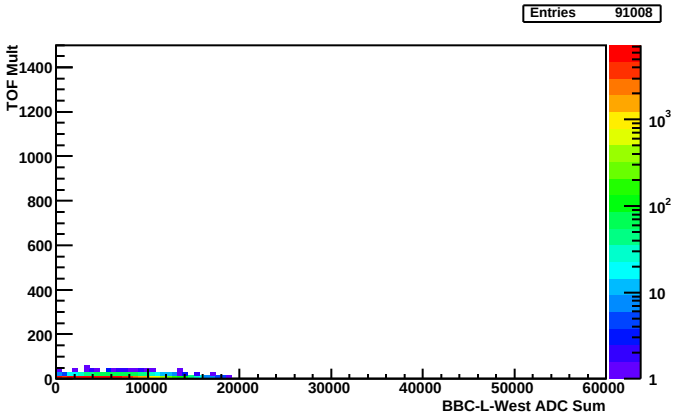

BBQ-VP003 (HI threshold)
Entries 1456128
ADC
QT Input Channel

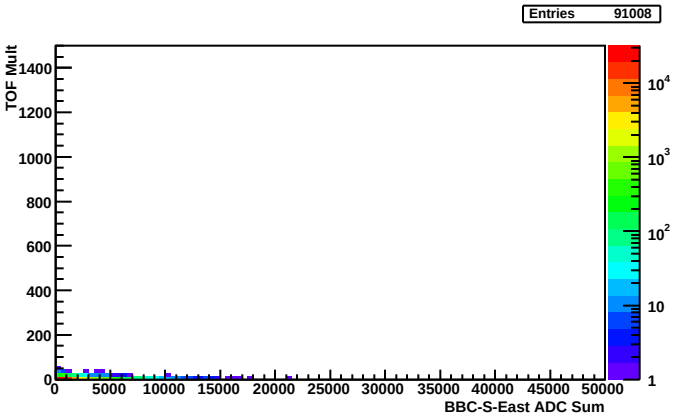

BBQ-VP003 (HI threshold)
Entries 1456128
TAC
QT Input Channel

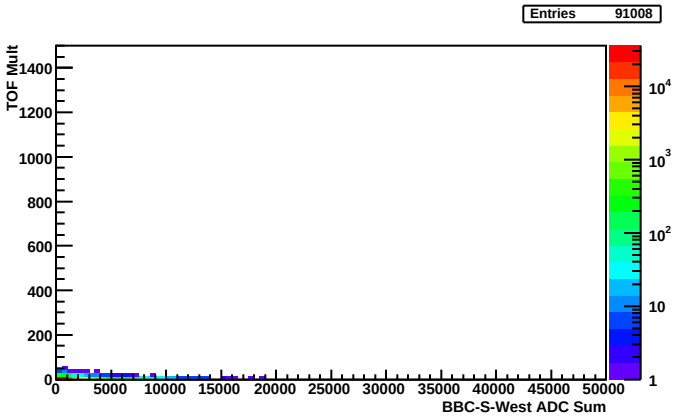

BBQ-VP004 (HI threshold)
Entries 1456128
ADC
QT Input Channel

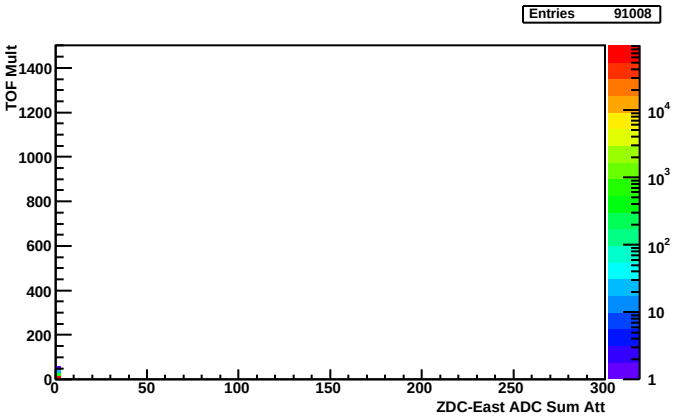

BBQ-VP004 (HI threshold)
Entries 1456128
TAC
QT Input Channel

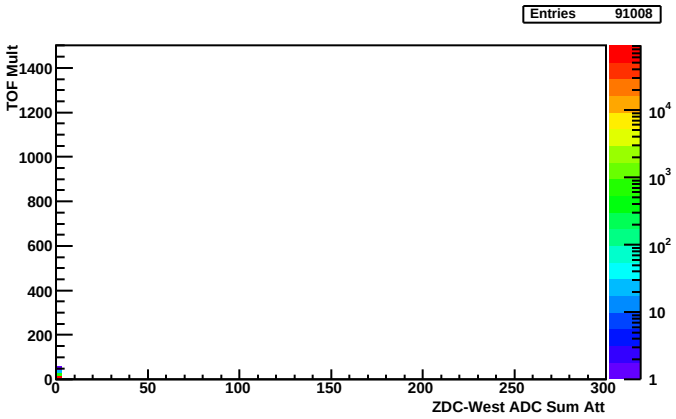

Entries 91008
TOF Mult
BBC-L-East ADC Sum

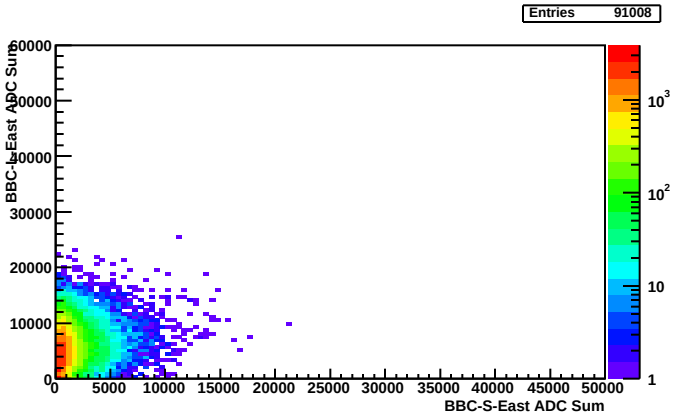

Entries 91008
TOF Mult
BBC-L-West ADC Sum

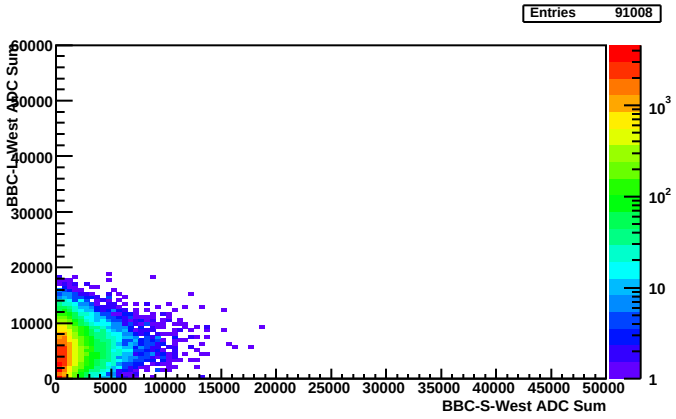

Entries 91008
TOF Mult
BBC-S-East ADC Sum

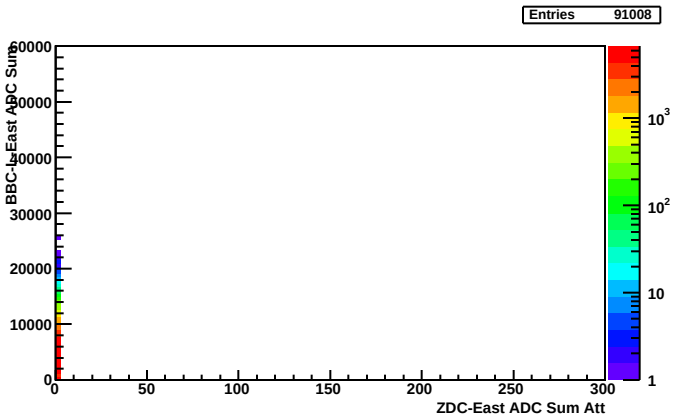

Entries 91008
TOF Mult
BBC-S-West ADC Sum

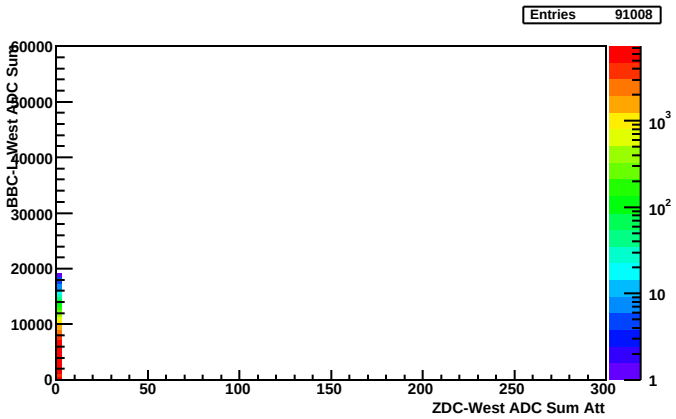

Entries 91008
TOF Mult
ZDC-East ADC Sum Att

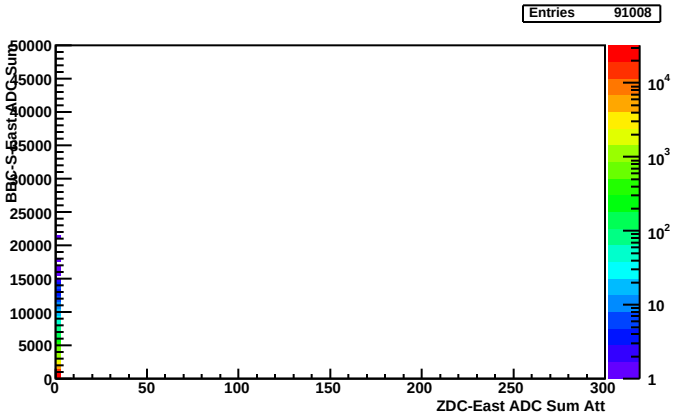

Entries 91008
TOF Mult
ZDC-West ADC Sum Att

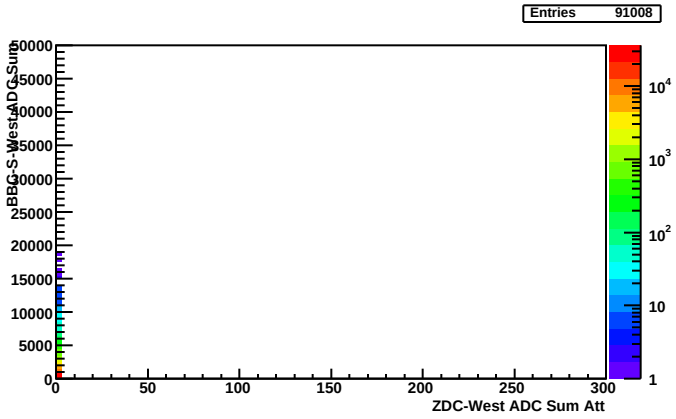

Entries 91008
BBC-L-East ADC Sum
BBC-S-East ADC Sum


Entries 91008
BBC-L-West ADC Sum
BBC-S-West ADC Sum


Entries 91008
BBC-L-East ADC Sum
ZDC-East ADC Sum Att


Entries 91008
BBC-L-West ADC Sum
ZDC-West ADC Sum Att


Entries 91008
BBC-S-East ADC Sum
ZDC-East ADC Sum Att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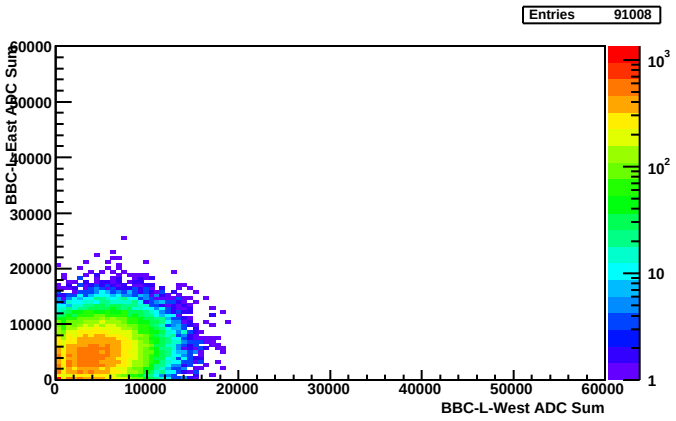
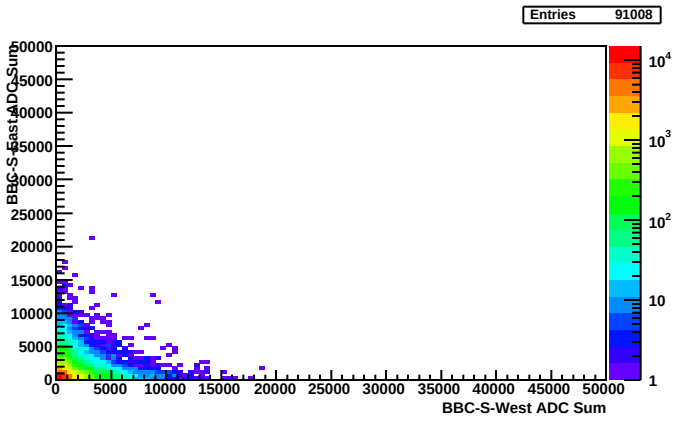
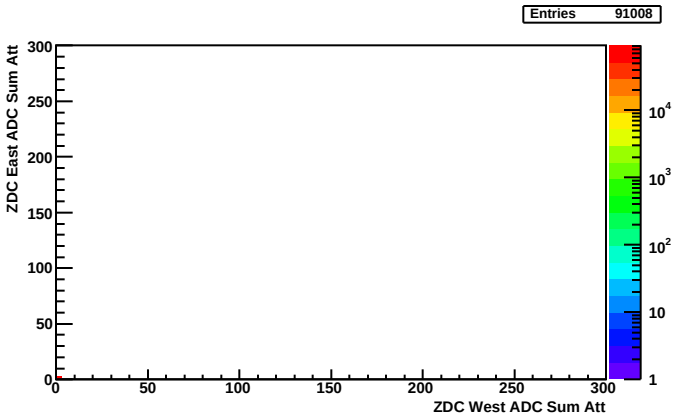
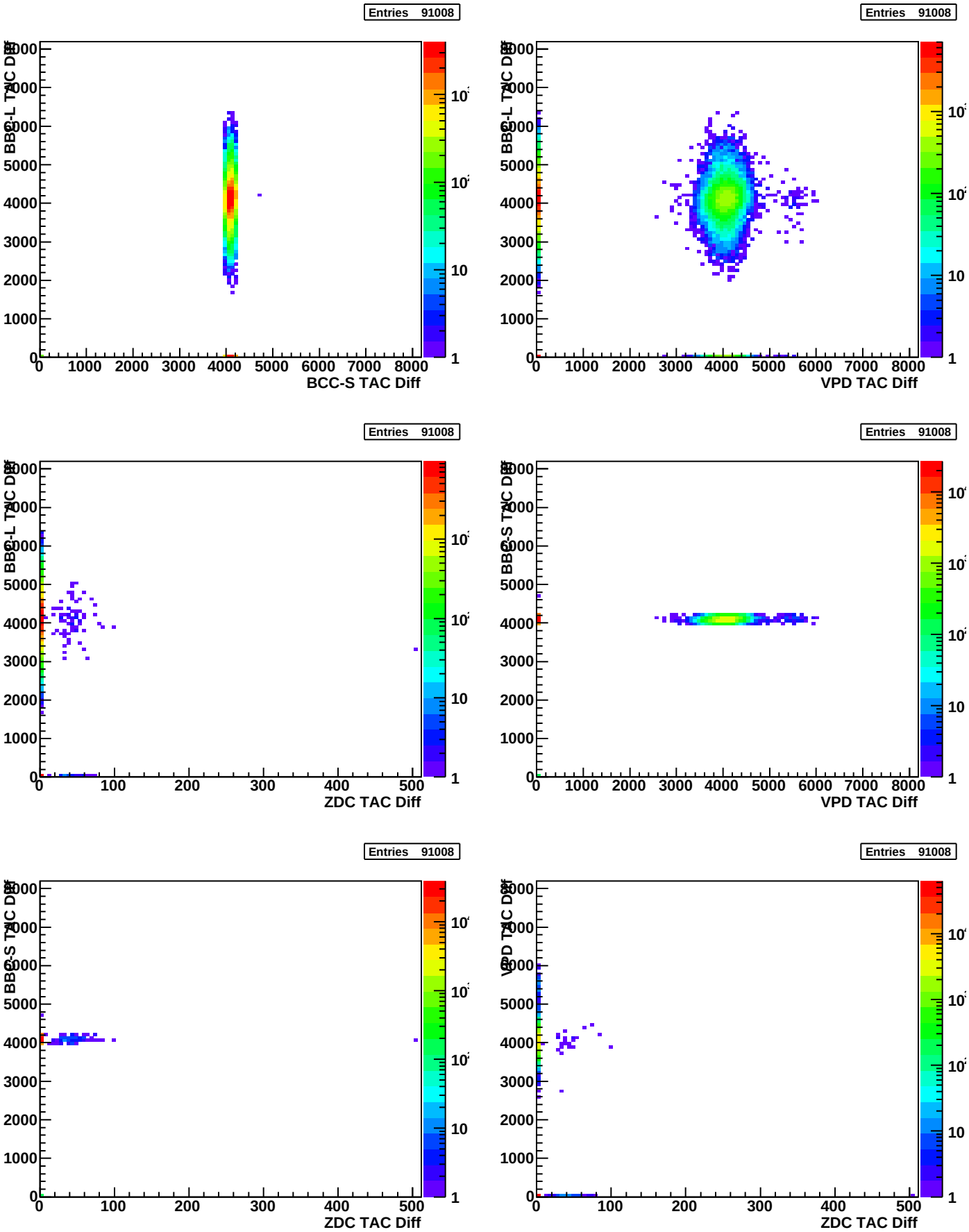
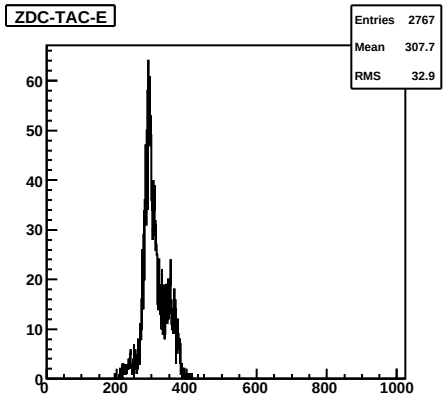
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

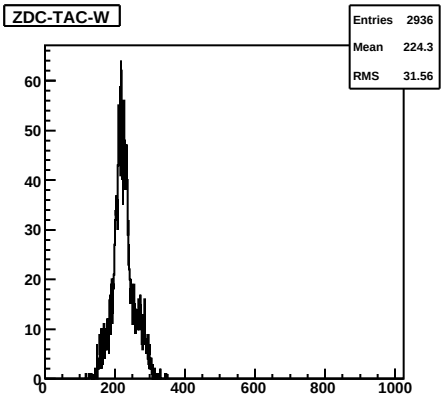

Entries 91008
BBC-L-East ADC Sum
BBC-L-West ADC Sum

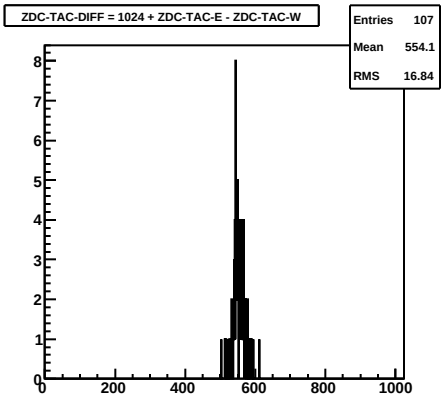

Entries 91008
BBC-S-East ADC Sum
BBC-S-West ADC Sum

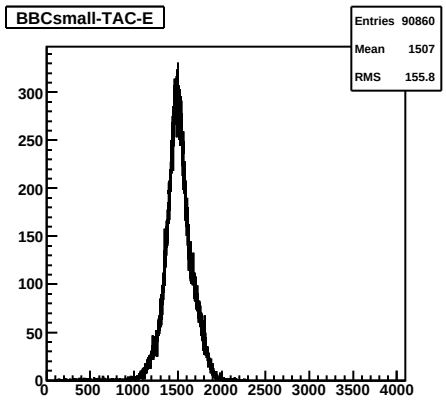

Entries 91008
ZDC East ADC Sum Att
ZDC West ADC Sum Att

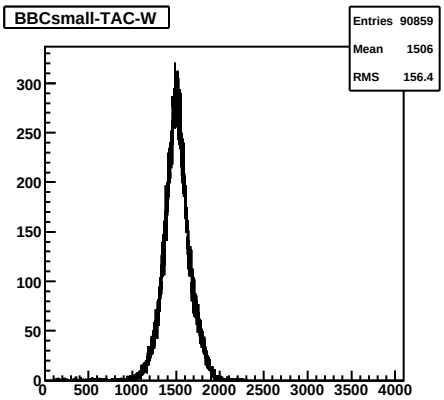

Entries 91008
BBC-L TAC Diff
BCC-S TAC Diff
Entries 91008
BBC-L TAC Diff
VPD TAC Diff
Entries 91008
BBC-L TAC Diff
ZDC TAC Diff
Entries 91008
BBC-S TAC Diff
VPD TAC Diff
Entries 91008
BBC-S TAC Diff
ZDC TAC Diff
Entries 91008
VPD TAC Diff
ZDC TAC Diff

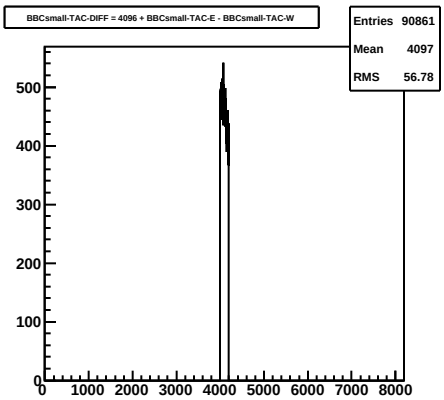

ZDC-TAC-E
Entries 2767
Mean 307.7
RMS 32.9

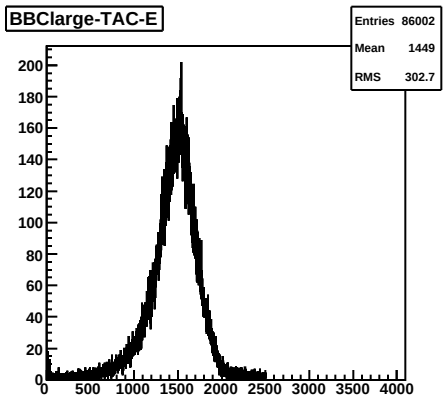

ZDC-TAC-W
Entries 2936
Mean 224.3
RMS 31.56

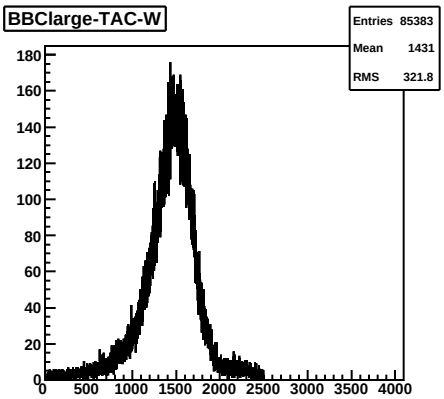

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 107
Mean 554.1
RMS 16.84

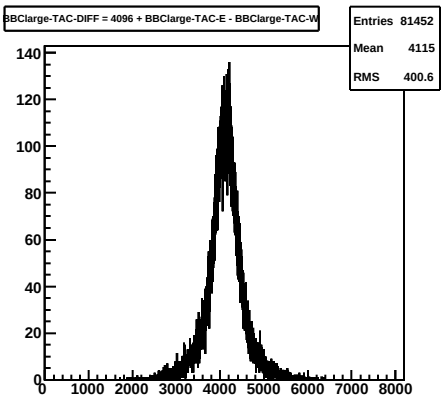

BBCsmall-TAC-E
Entries 90860
Mean 1507
RMS 155.8

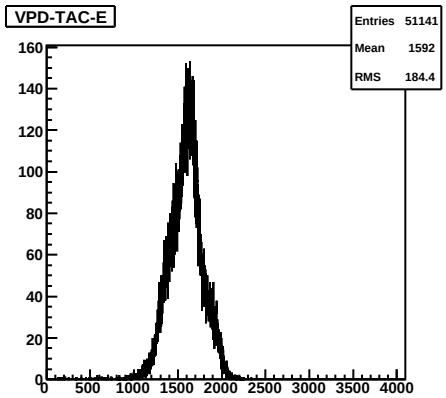

BBCsmall-TAC-W
Entries 90859
Mean 1506
RMS 156.4

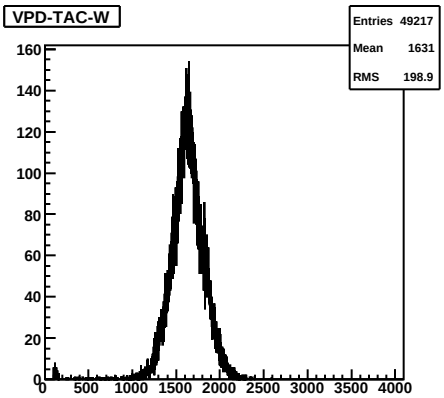

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 90861
Mean 4097
RMS 56.78

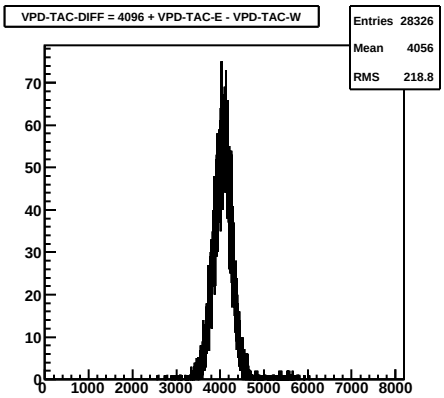

BBClarge-TAC-E
Entries 86002
Mean 1449
RMS 302.7

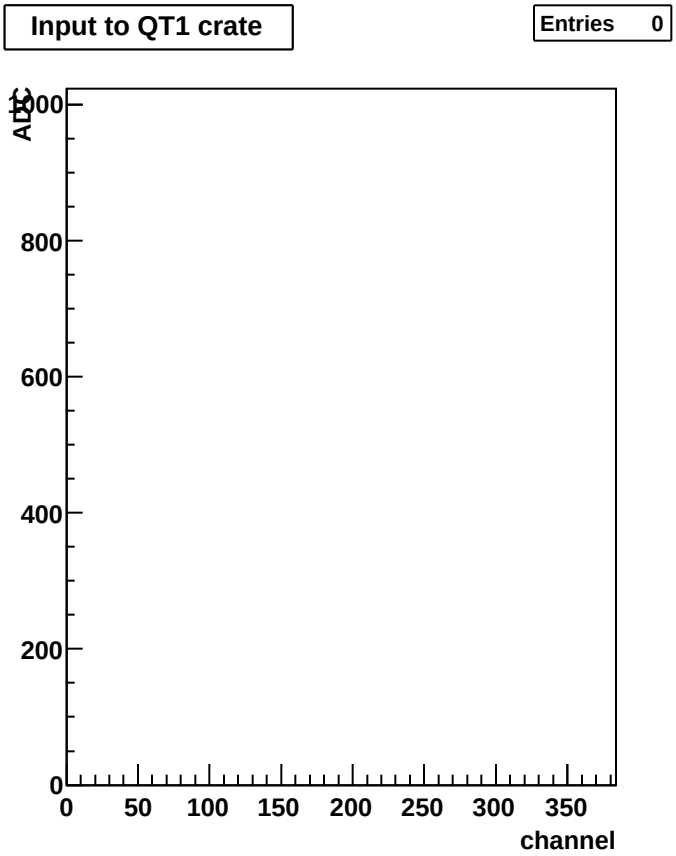

BBClarge-TAC-W
Entries 85383
Mean 1431
RMS 321.8

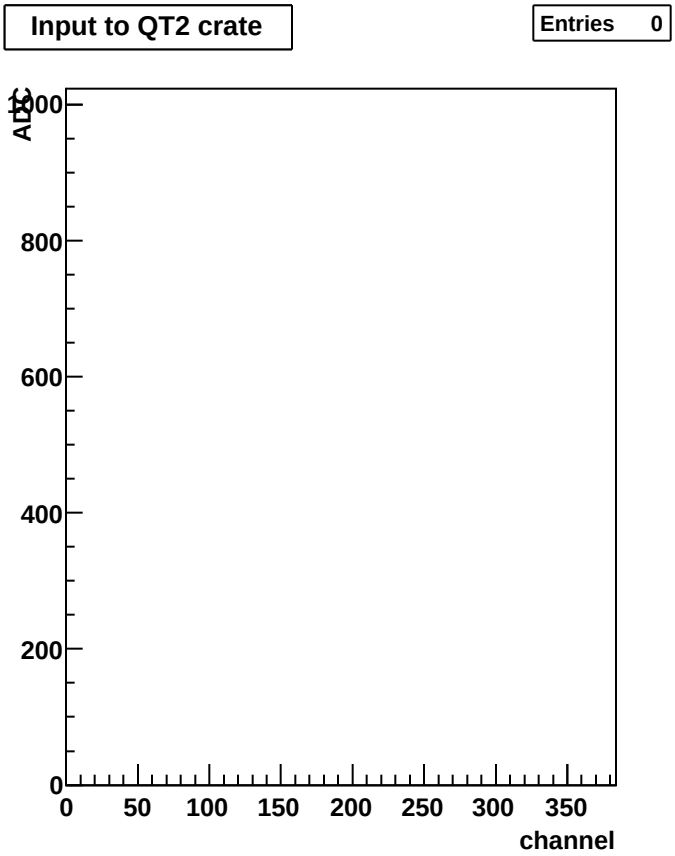

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 81452
Mean 4115
RMS 400.6

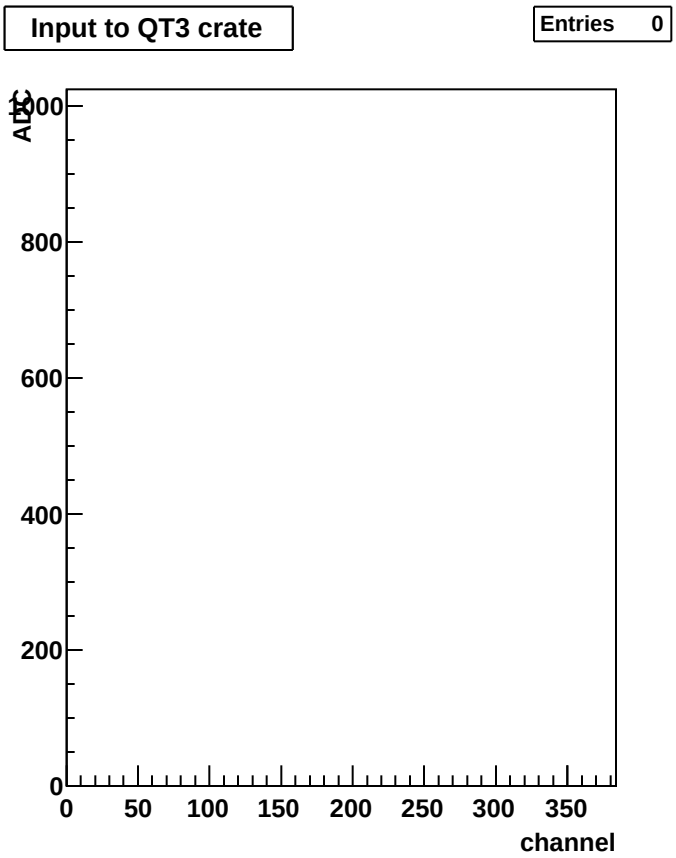

VPD-TAC-E
Entries 51141
Mean 1592
RMS 184.4

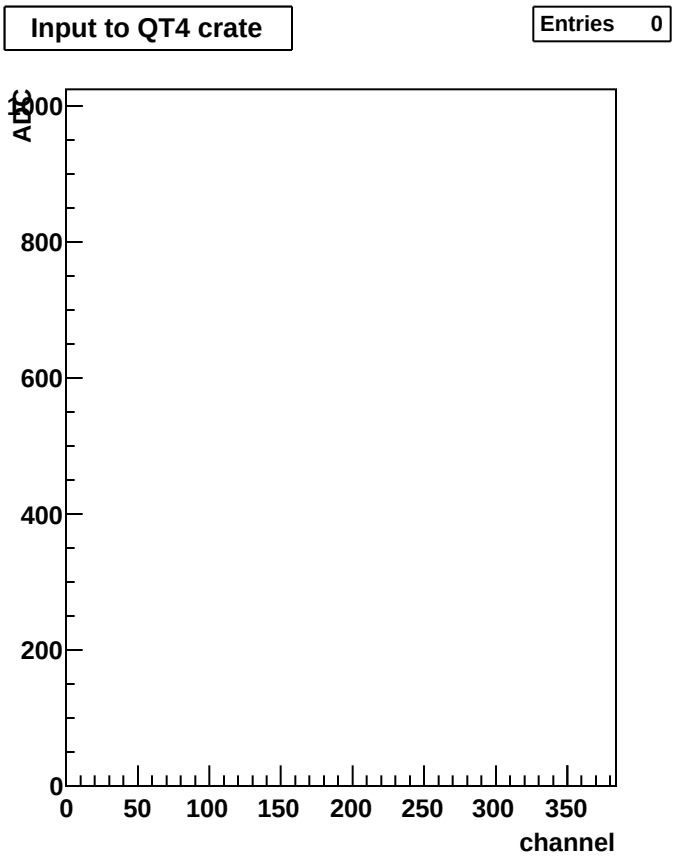

VPD-TAC-W
Entries 49217
Mean 1631
RMS 198.9

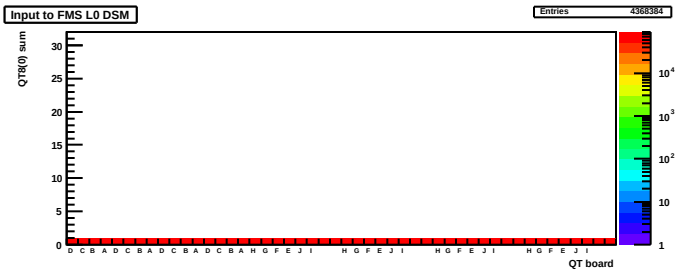

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 28326
Mean 4056
RMS 218.8

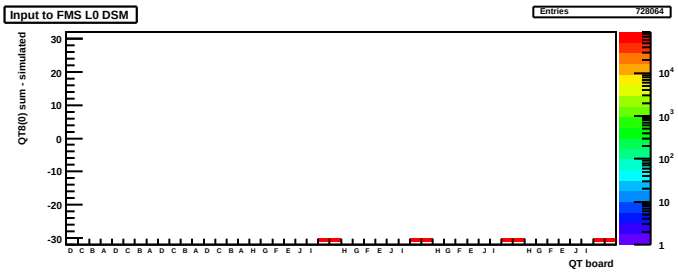

Input to QT1 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

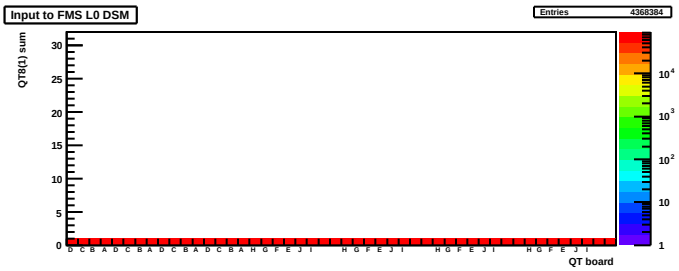

Input to QT2 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

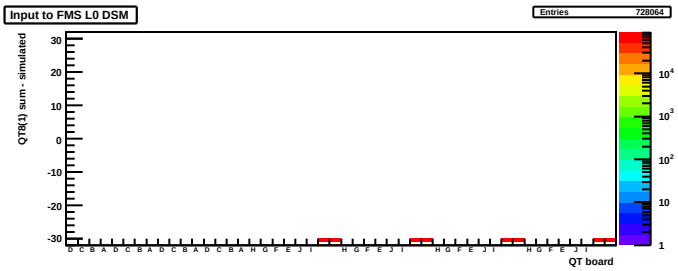

Input to QT3 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

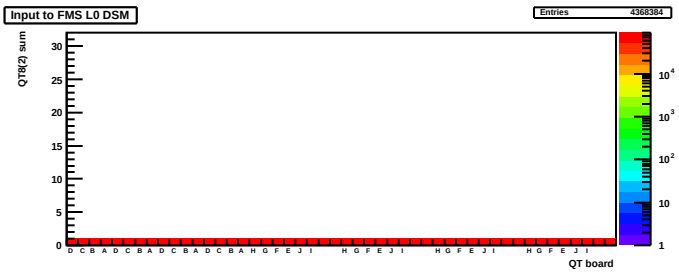

Input to QT4 crate
Entries 0
ADC
1000
800
600
400
200
0
0 50 100 150 200 250 300 350
channel

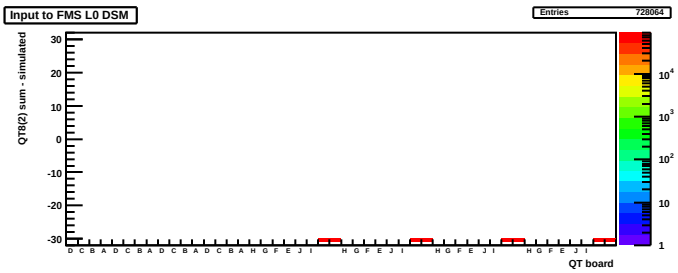

Input to FMS L0 DSM
Entries 4368384
QT8(0) sum
QT board

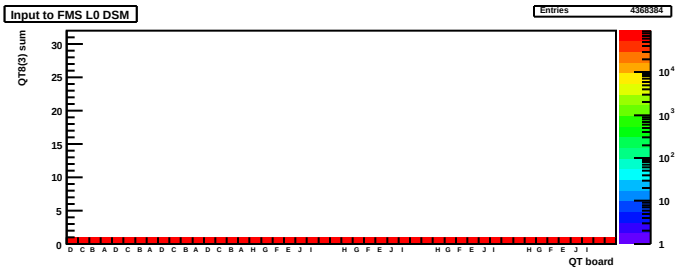

Input to FMS L0 DSM
Entries 728064
QT8(0) sum - simulated
QT board

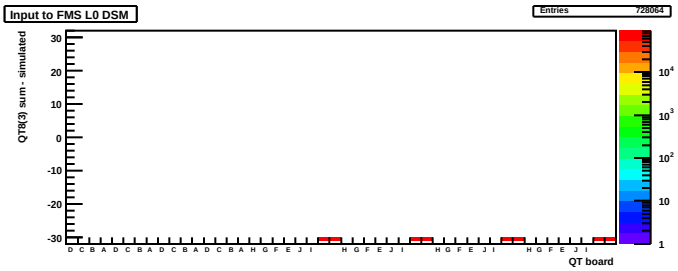

Input to FMS L0 DSM
Entries 4368384
QT8(1) sum
QT board

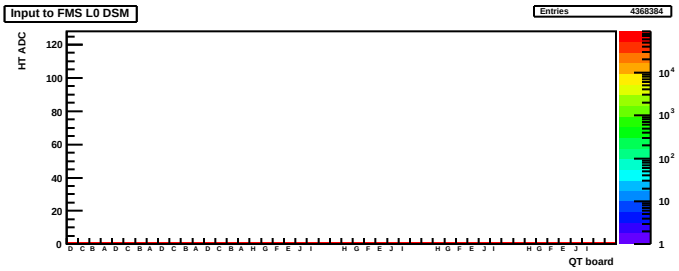

Input to FMS L0 DSM
Entries 728064
QT8(1) sum - simulated
QT board

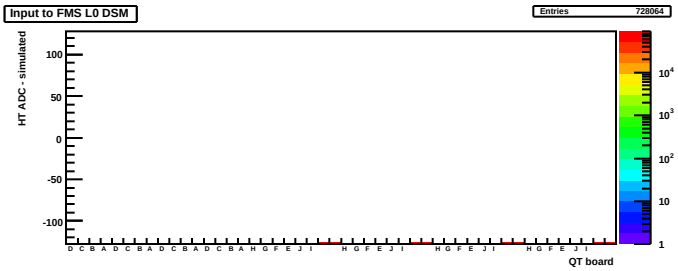

Input to FMS L0 DSM
Entries 4368384
QT8(2) sum
QT board

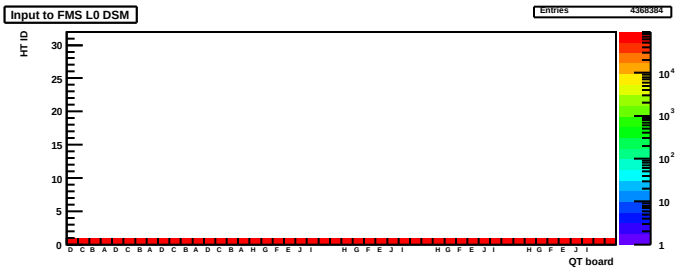

Input to FMS L0 DSM
Entries 728064
QT8(2) sum - simulated
QT board

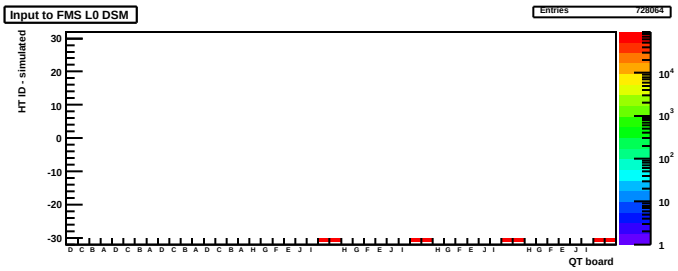

Input to FMS L0 DSM
Entries 4368384
QT8(3) sum
QT board

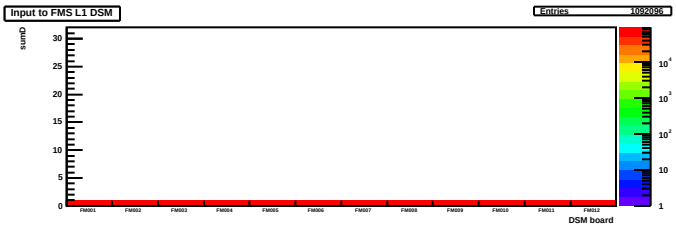

Input to FMS L0 DSM
Entries 728064
QT8(3) sum - simulated
QT board

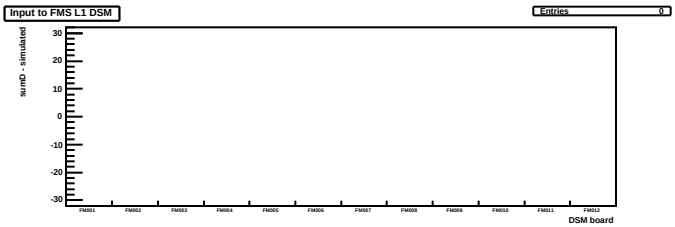

Input to FMS L0 DSM
Entries 4368384
HT ADC
QT board

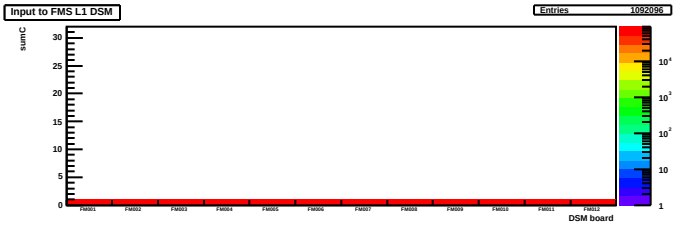

Input to FMS L0 DSM
Entries 728064
HT ADC - simulated
QT board

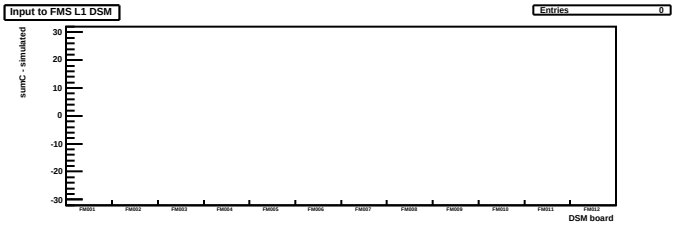

Input to FMS L0 DSM
Entries 4368384
HT ID
QT board

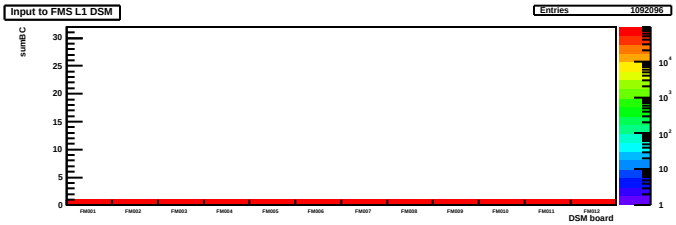

Input to FMS L0 DSM
Entries 728064
HT ID - simulated
QT board

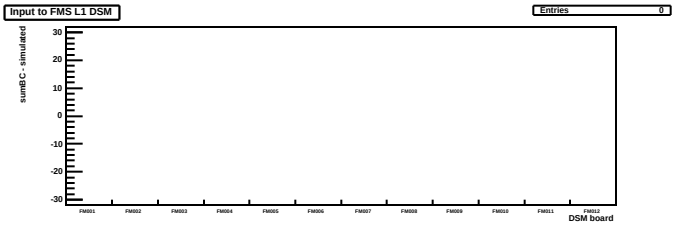

Input to FMS L1 DSM
Entries 1092096
sumD
DSM board

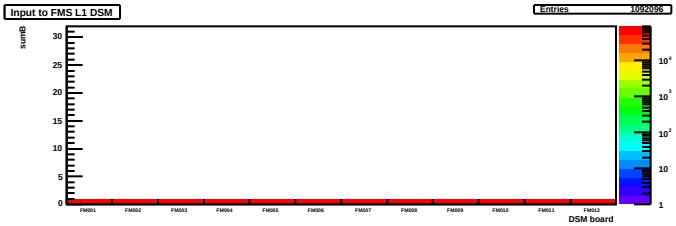

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

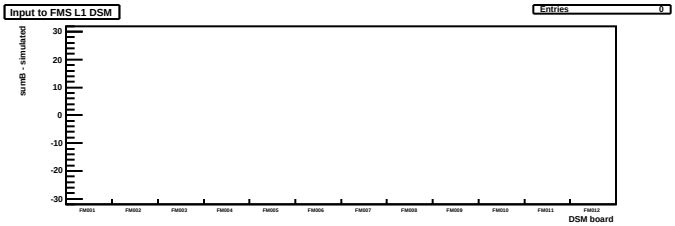

Input to FMS L1 DSM
Entries 1092096
sumC
DSM board

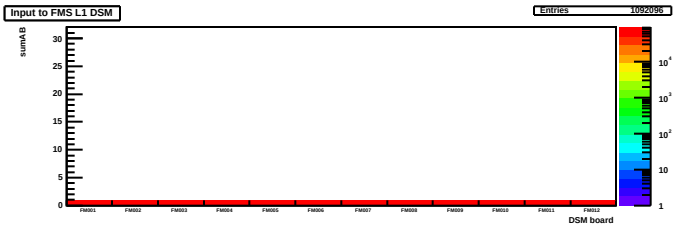

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

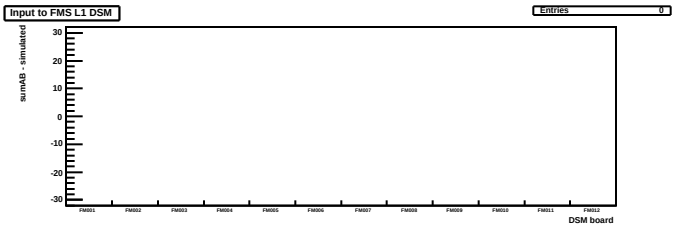

Input to FMS L1 DSM
Entries 1092096
sumBC
DSM board

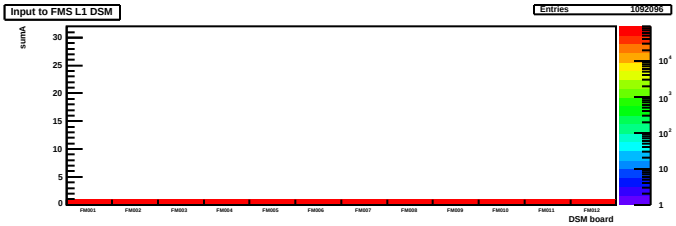

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

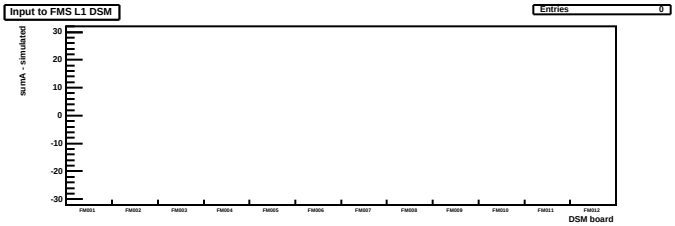

Input to FMS L1 DSM
Entries 1092096
sumB
DSM board

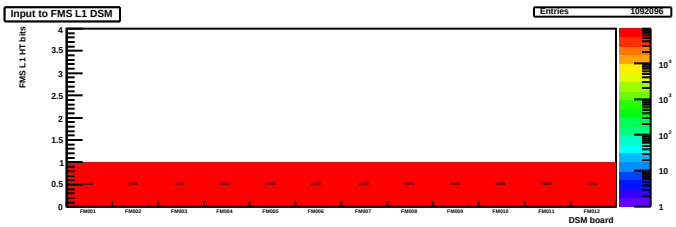

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

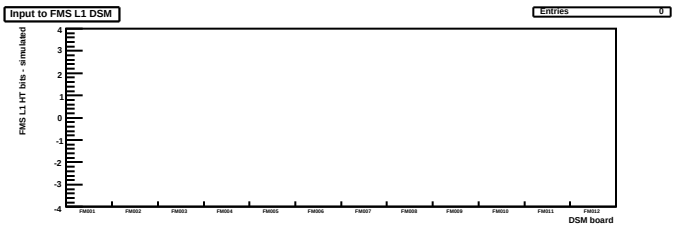

Input to FMS L1 DSM
Entries 1092096
sumAB
DSM board

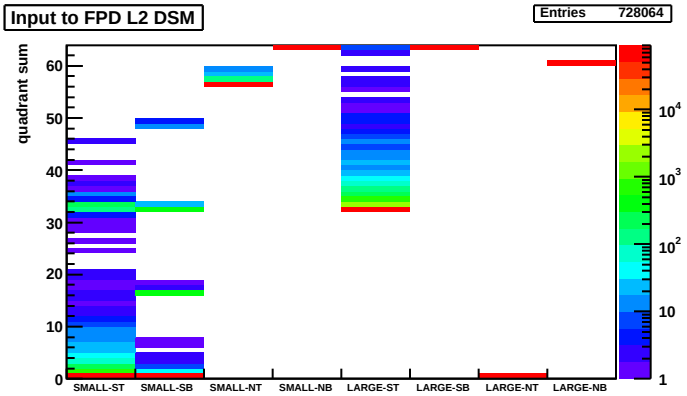

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

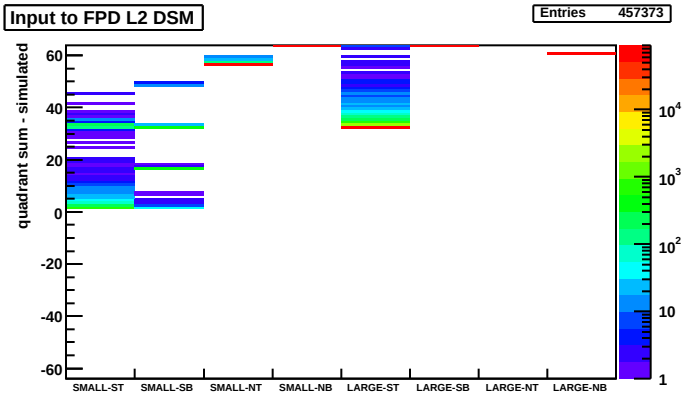

Input to FMS L1 DSM
Entries 1092096
sumA
DSM board

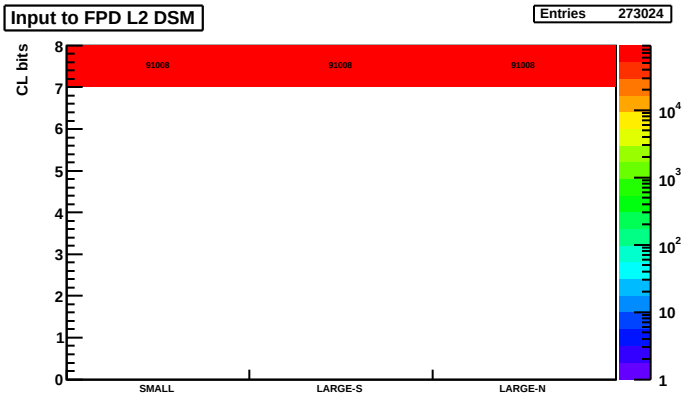

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

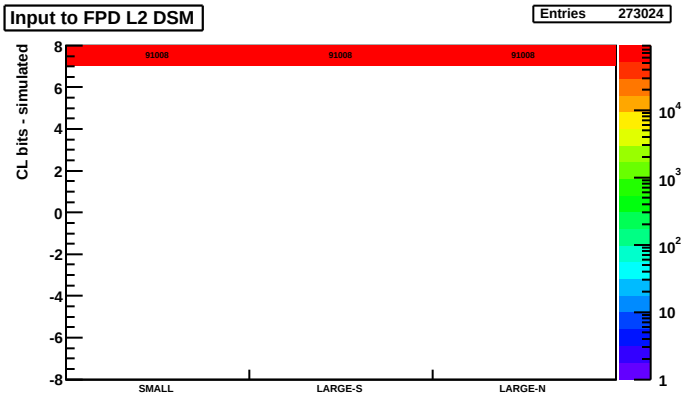

Input to FMS L1 DSM
Entries 1092096
FMS L1 HT bits
DSM board

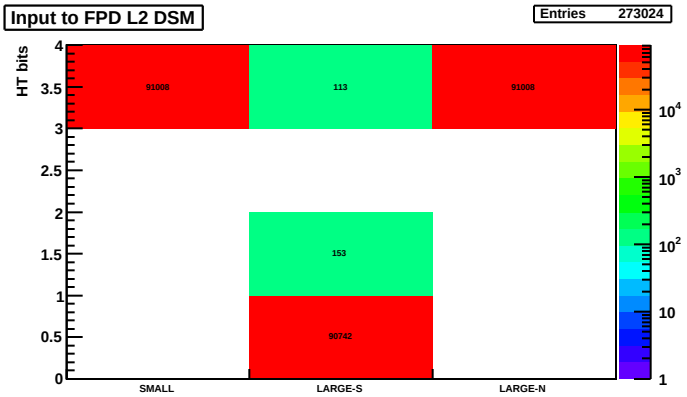

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

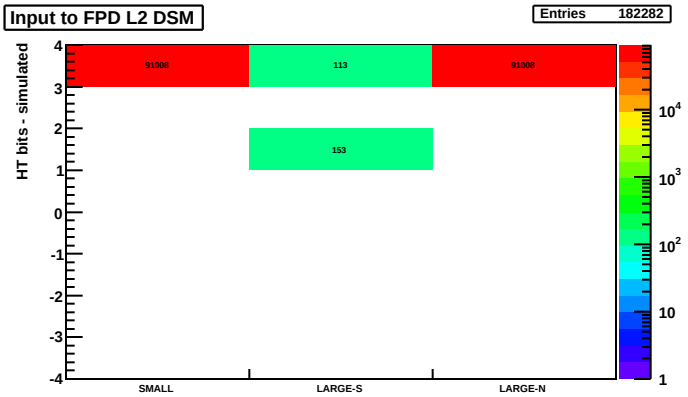

Input to FPD L2 DSM
Entries 728064
quadrant sum
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

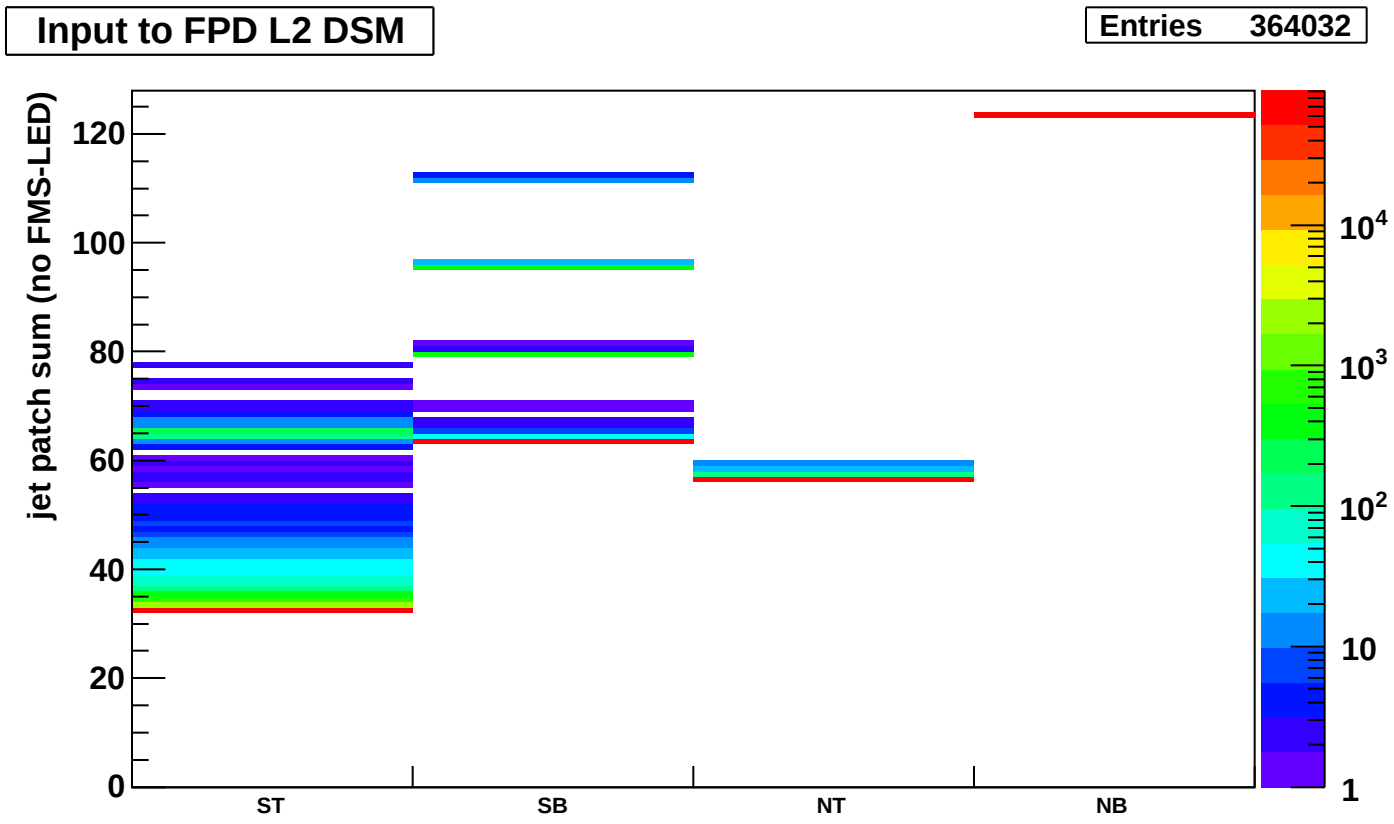

Input to FPD L2 DSM
Entries 457373
quadrant sum - simulated
SMALL-ST
SMALL-SB
SMALL-NT
SMALL-NB
LARGE-ST
LARGE-SB
LARGE-NT
LARGE-NB

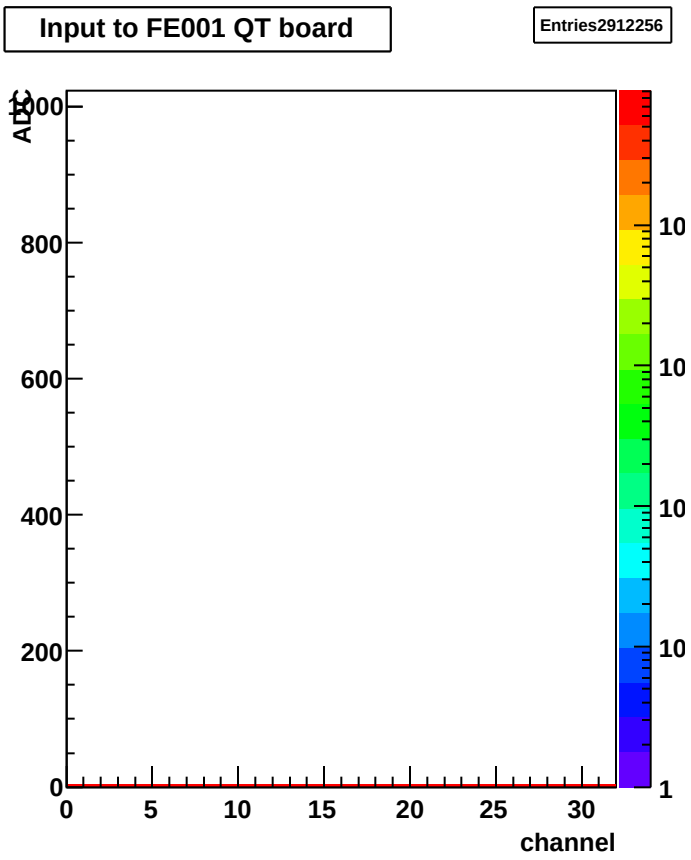

Input to FPD L2 DSM
Entries 273024
CL bits
91008
91008
91008
SMALL
LARGE-S
LARGE-N

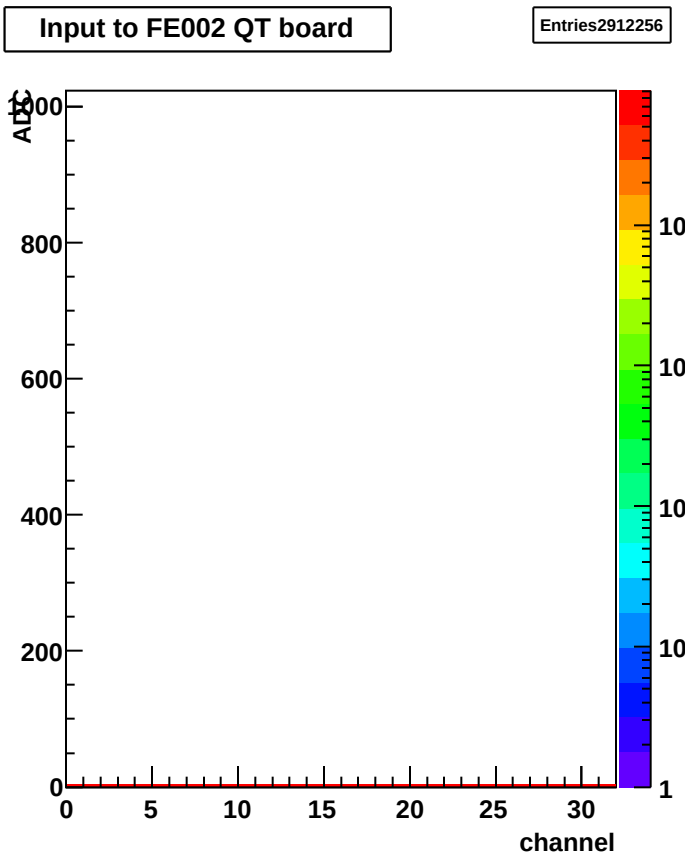

Input to FPD L2 DSM
Entries 273024
CL bits - simulated
91008
91008
91008
SMALL
LARGE-S
LARGE-N

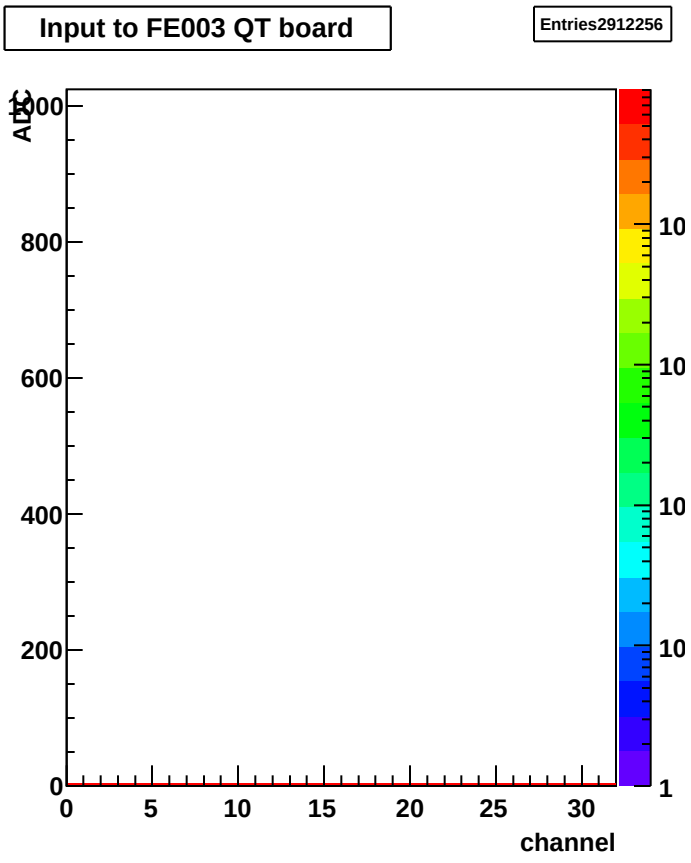

Input to FPD L2 DSM
Entries 273024
HT bits
91008
113
91008
153
90742
SMALL
LARGE-S
LARGE-N

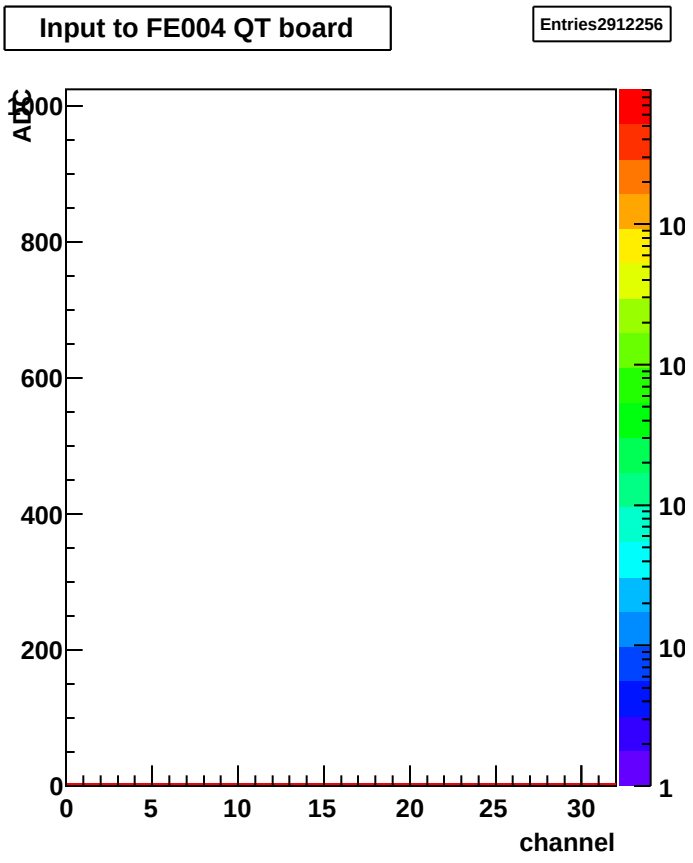

Input to FPD L2 DSM
Entries 182282
HT bits - simulated
91008
113
91008
153
SMALL
LARGE-S
LARGE-N

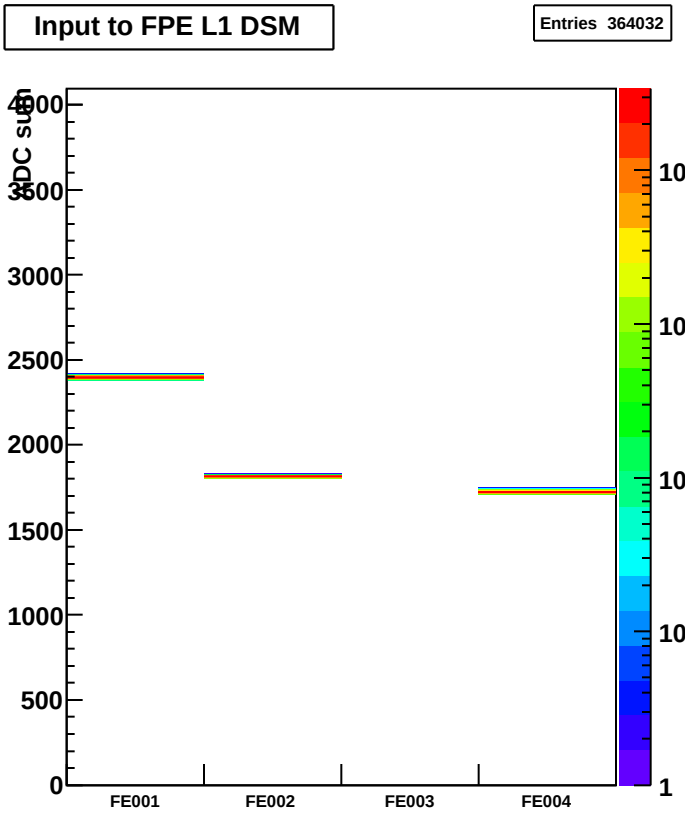

Input to FPD L2 DSM
Entries 364032
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
1
10
10^2
10^3
10^4

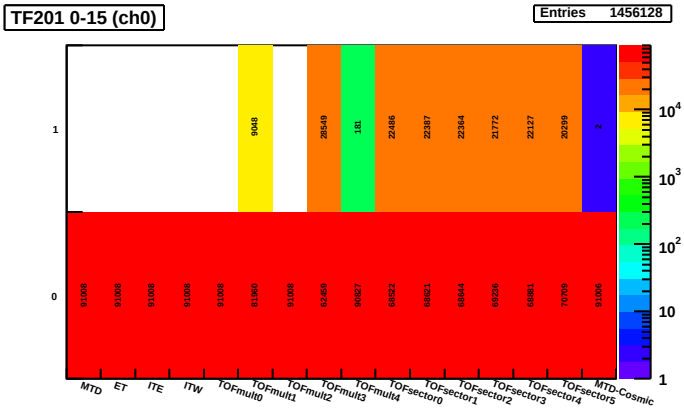

Input to FE001 QT board
Entries2912256
ADC
channel

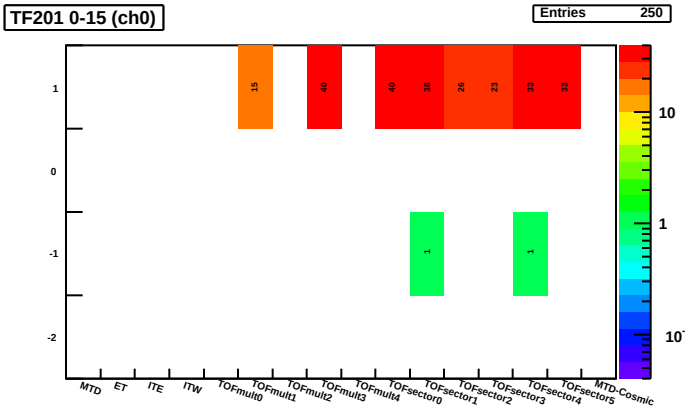

Input to FE002 QT board
Entries2912256
ADC
channel

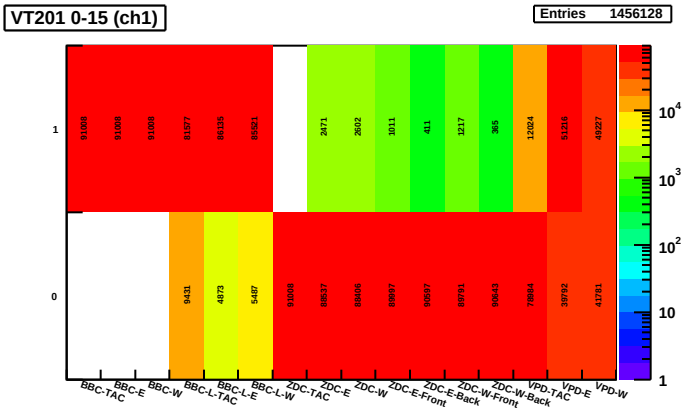

Input to FE003 QT board
Entries2912256
ADC
channel

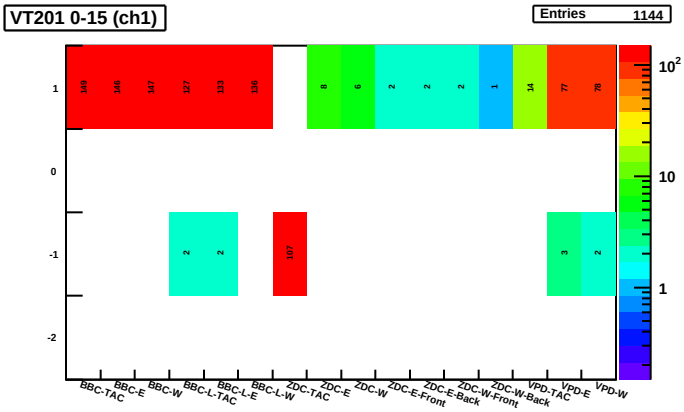

Input to FE004 QT board
Entries2912256
ADC
channel

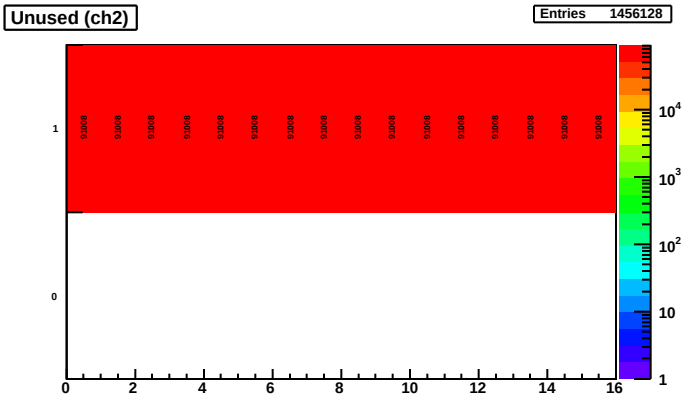

Input to FPE L1 DSM
Entries 364032
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
1

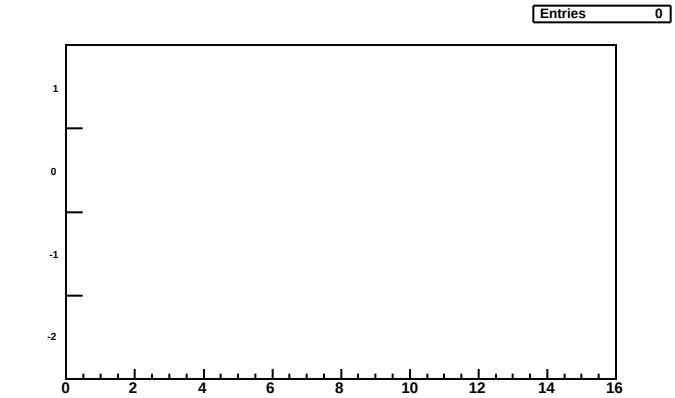

TF201 0-15 (ch0)
Entries 1456128
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

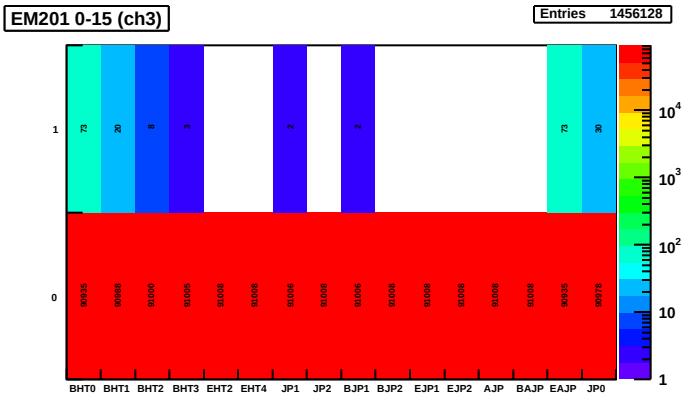

TF201 0-15 (ch0)
Entries 250
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

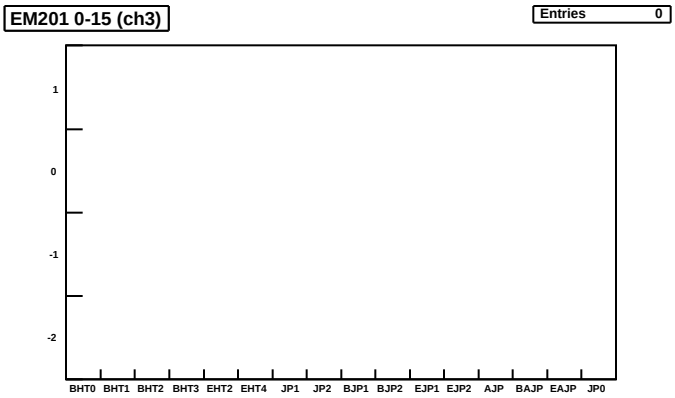

VT201 0-15 (ch1)
Entries 1456128
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 1144
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

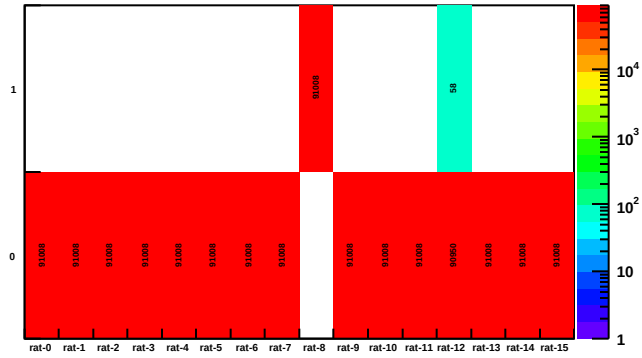

Unused (ch2)
Entries 1456128

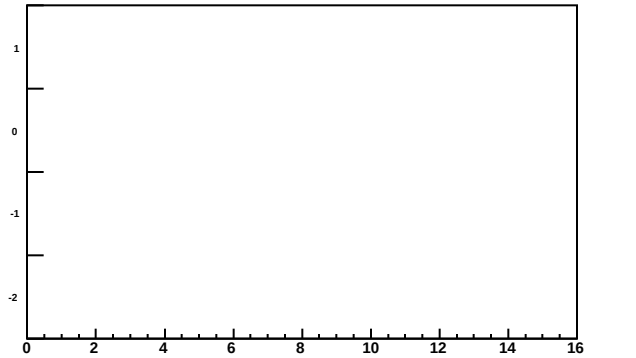

Entries 0


EM201 0-15 (ch3)
Entries 1456128
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

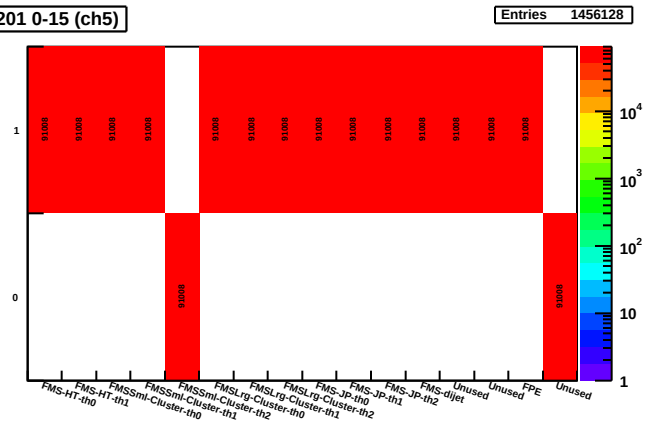

EM201 0-15 (ch3)
Entries 0
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP EAJP JP0

RAT board (ch4)

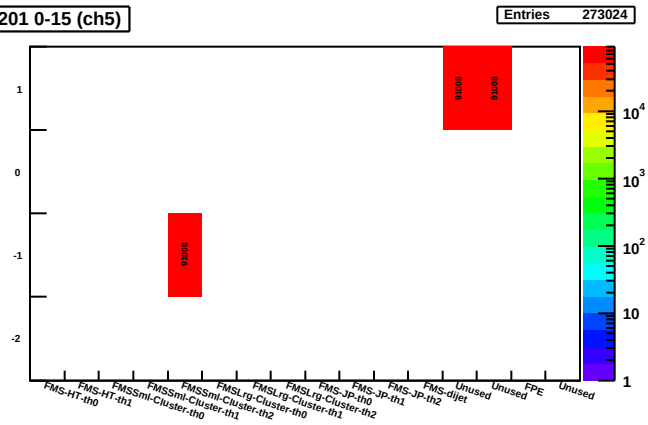




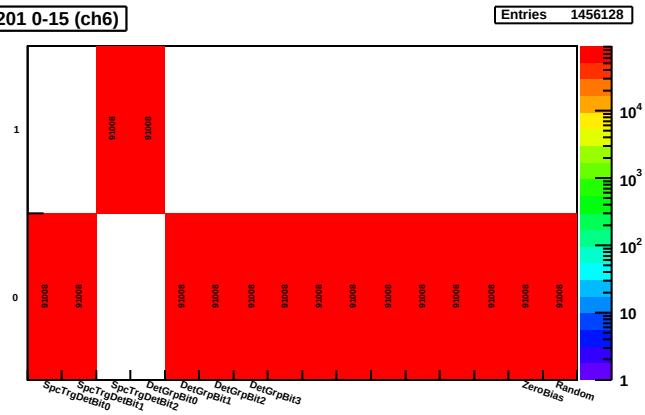
FP201 0-15 (ch5)

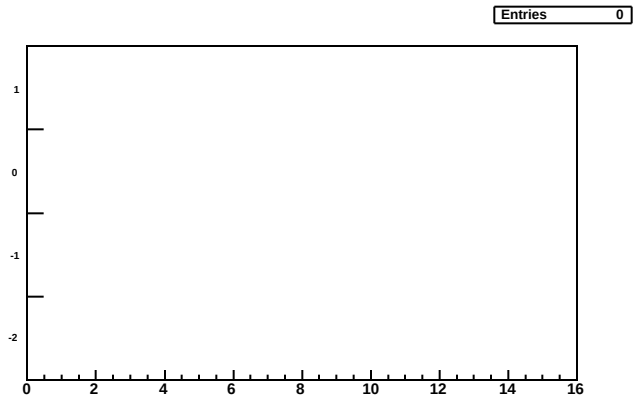
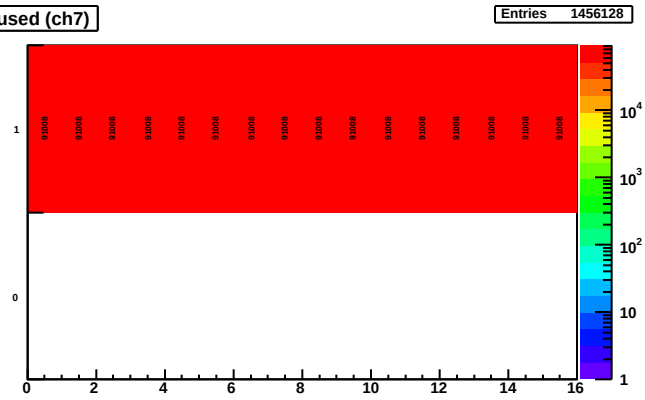
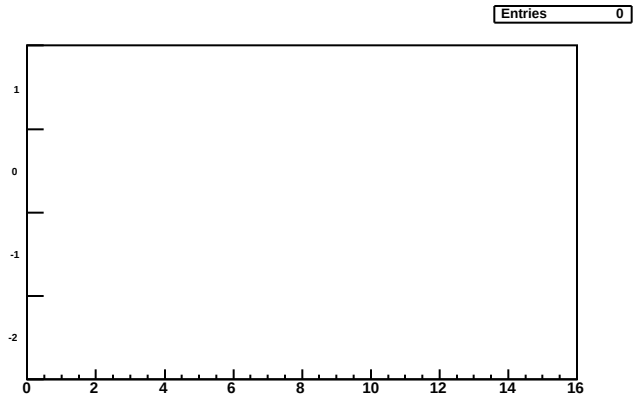


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)