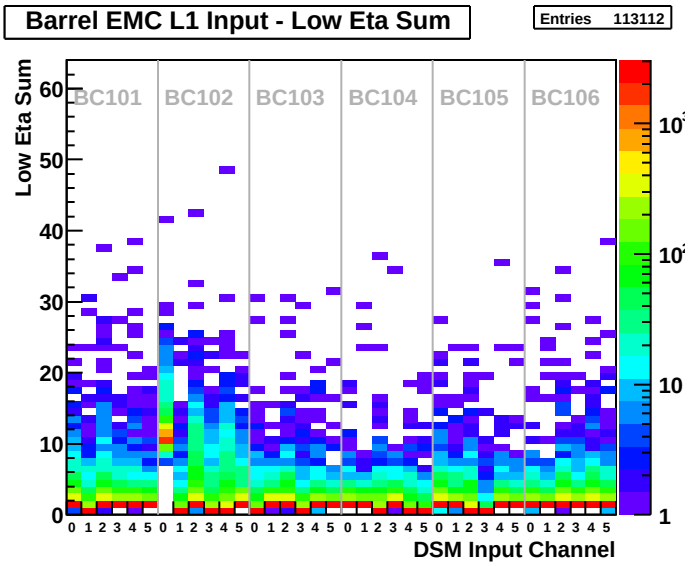
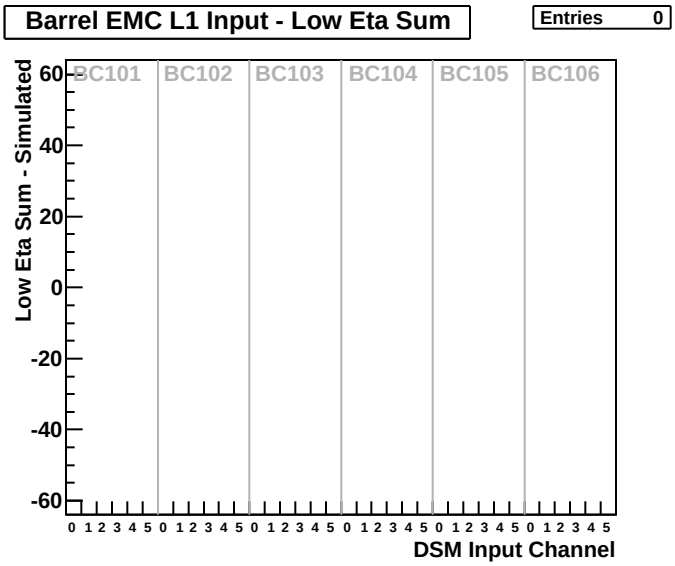
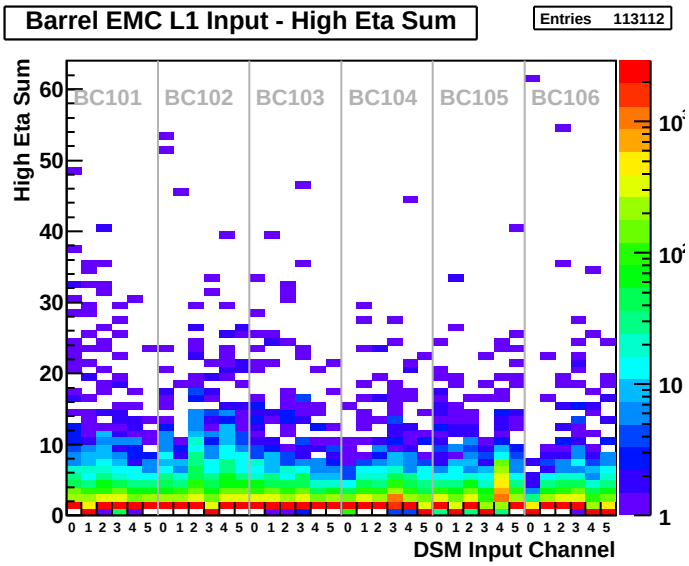
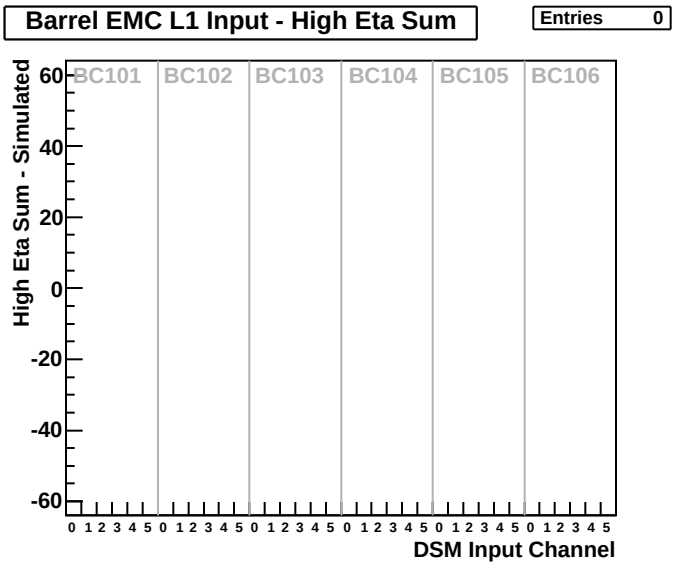
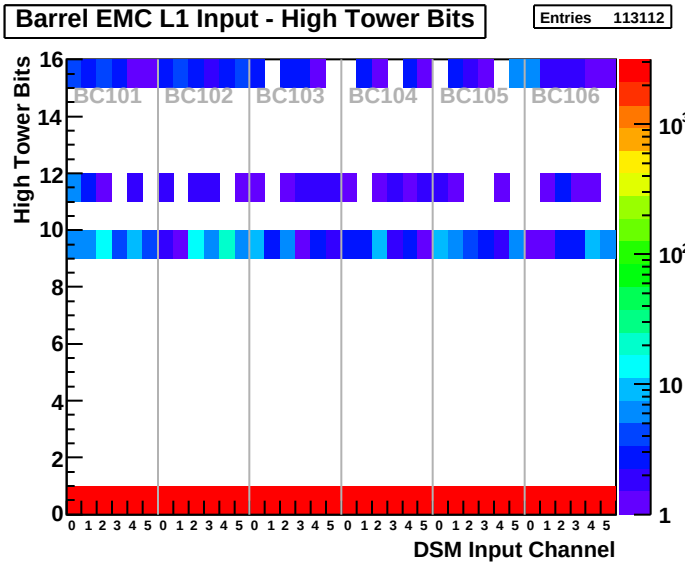
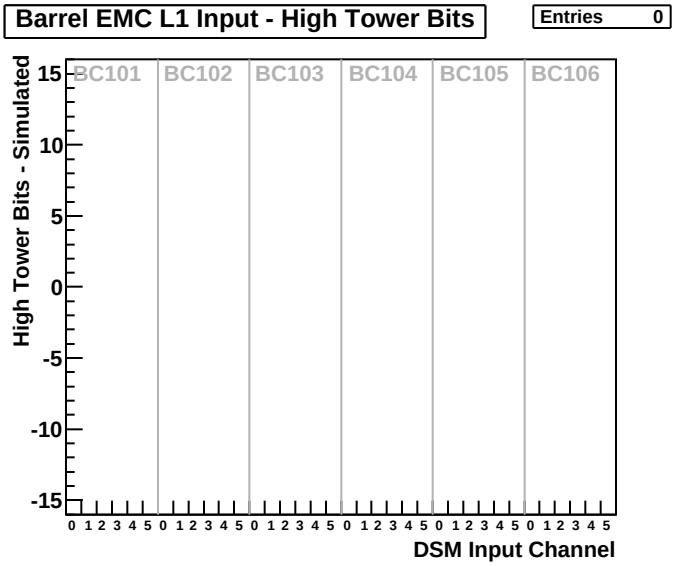

Barrel EMC L1 Input - Low Eta Sum
Entries 113112
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

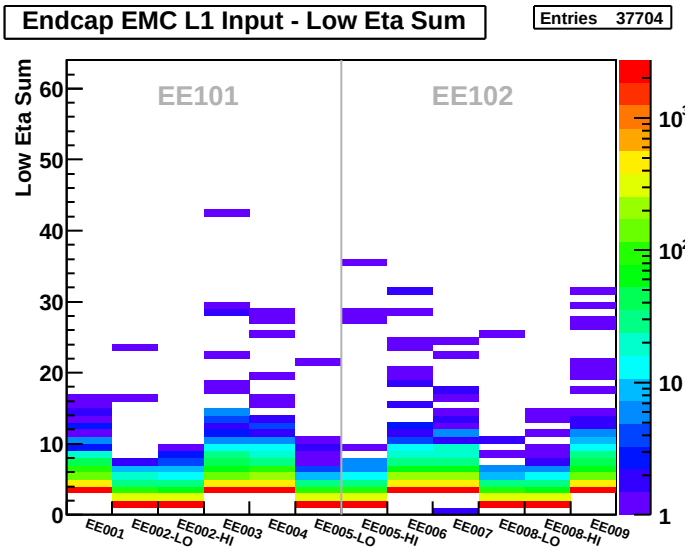

Barrel EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

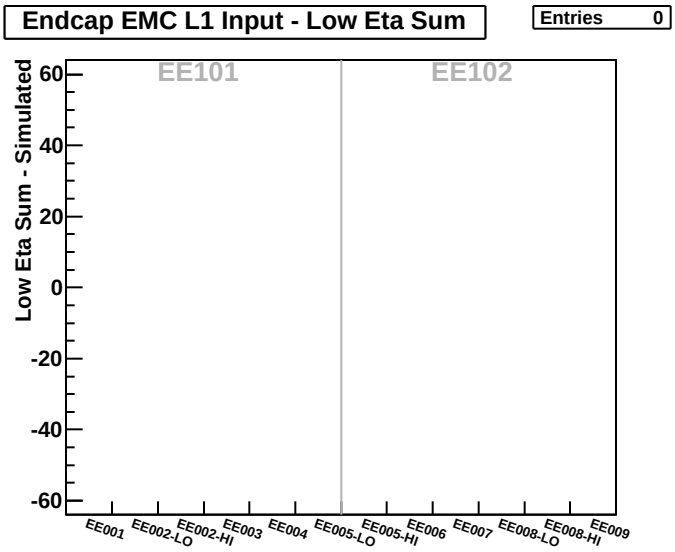

Barrel EMC L1 Input - High Eta Sum
Entries 113112
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

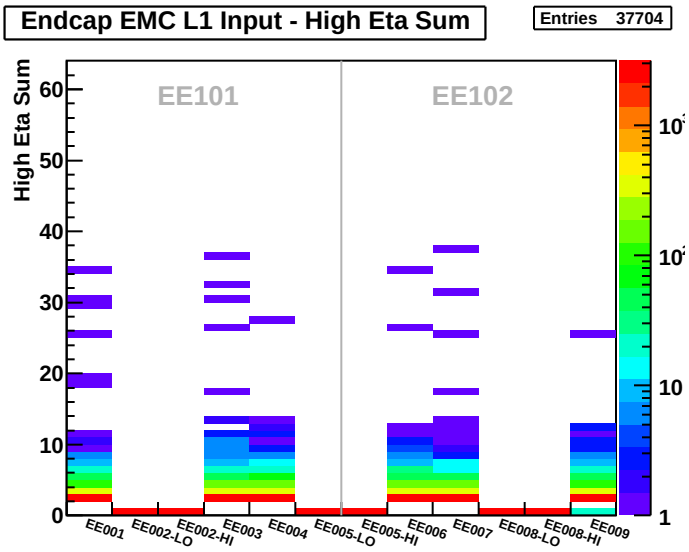

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

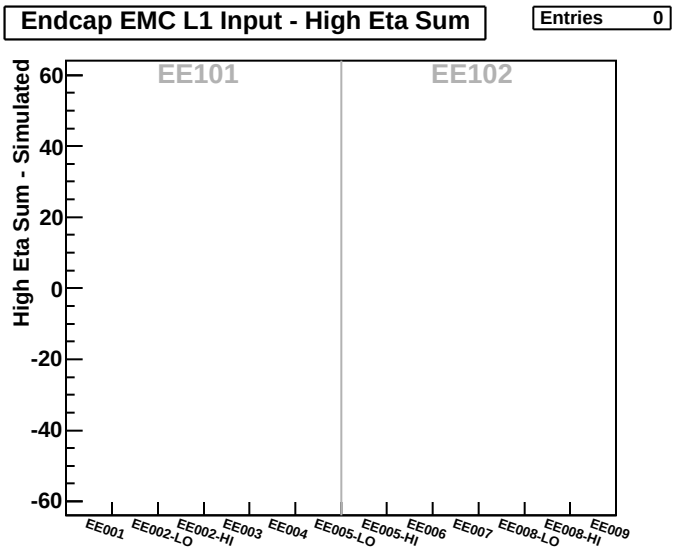

Barrel EMC L1 Input - High Tower Bits
Entries 113112
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

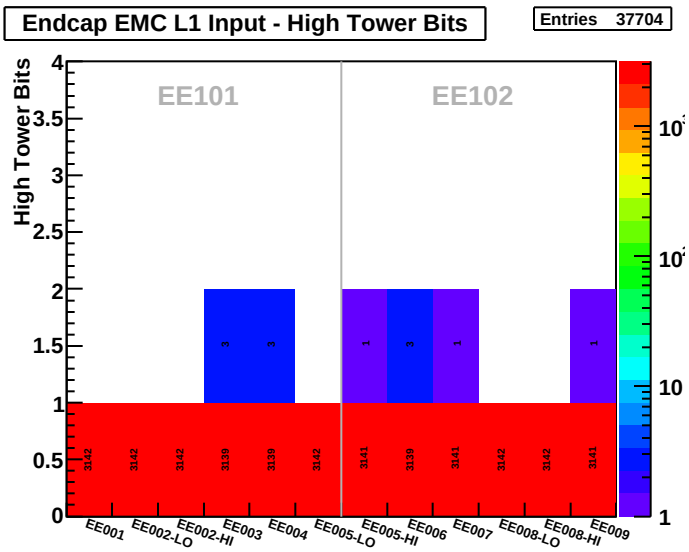

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

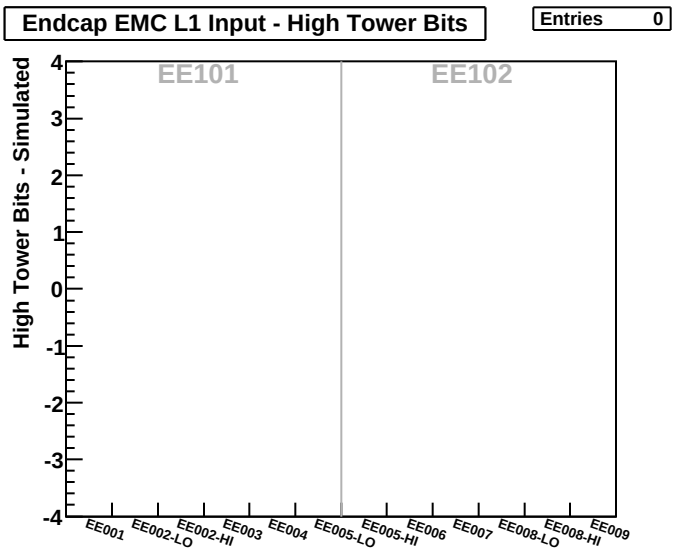

Endcap EMC L1 Input - Low Eta Sum
Entries 37704
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

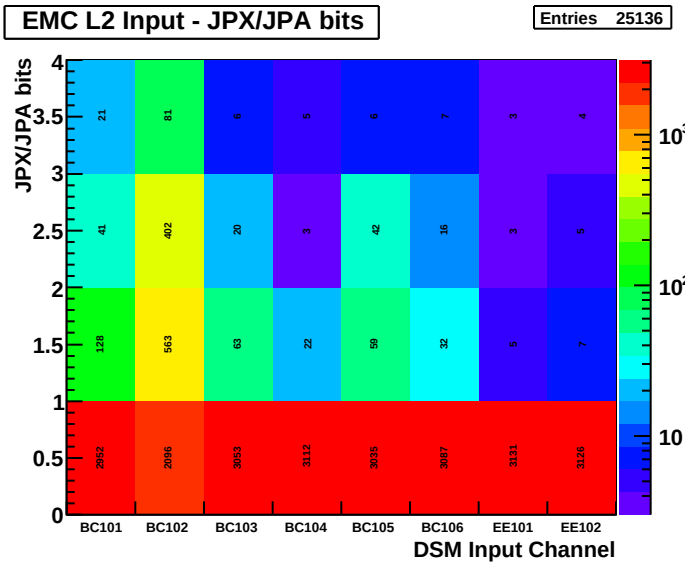

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

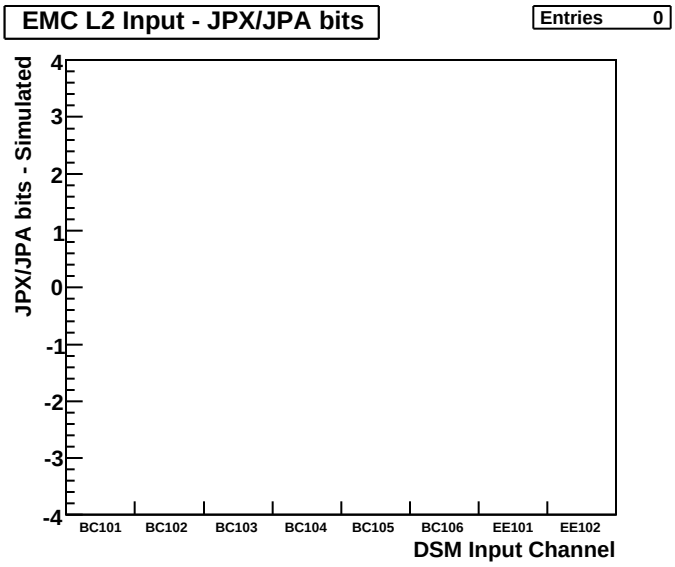

Endcap EMC L1 Input - High Eta Sum
Entries 37704
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

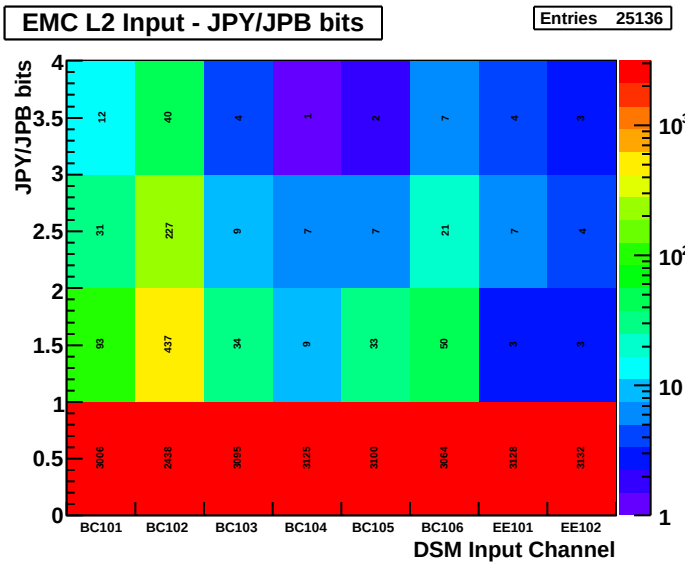

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

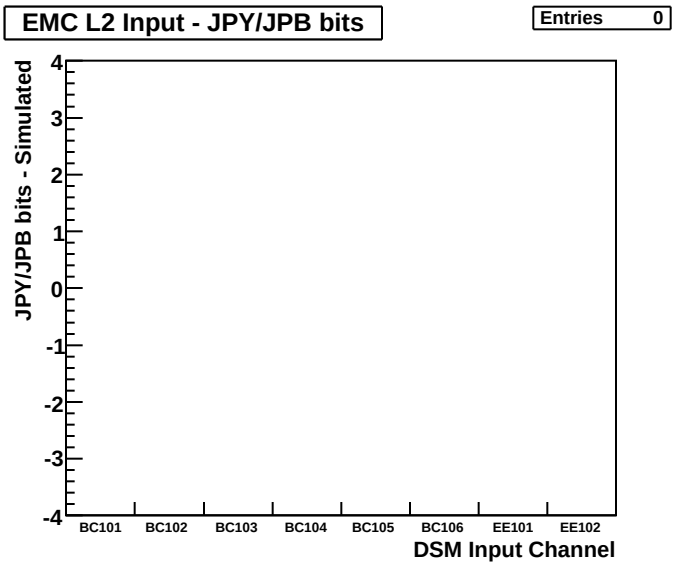

Endcap EMC L1 Input - High Tower Bits
Entries 37704
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

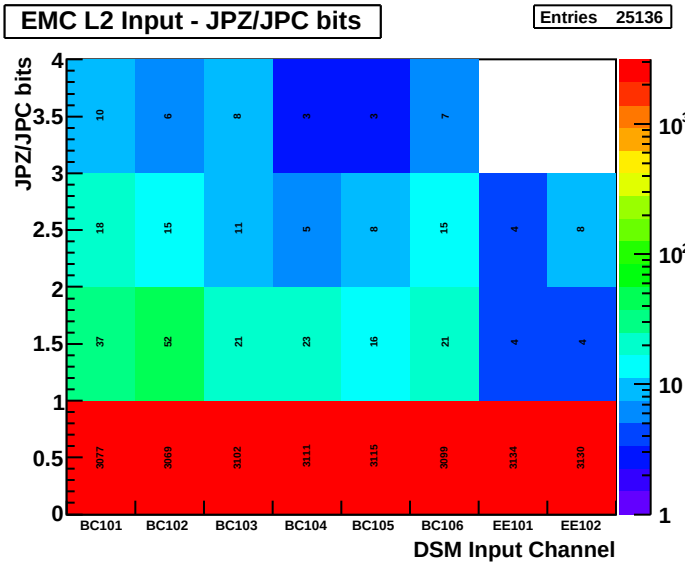

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

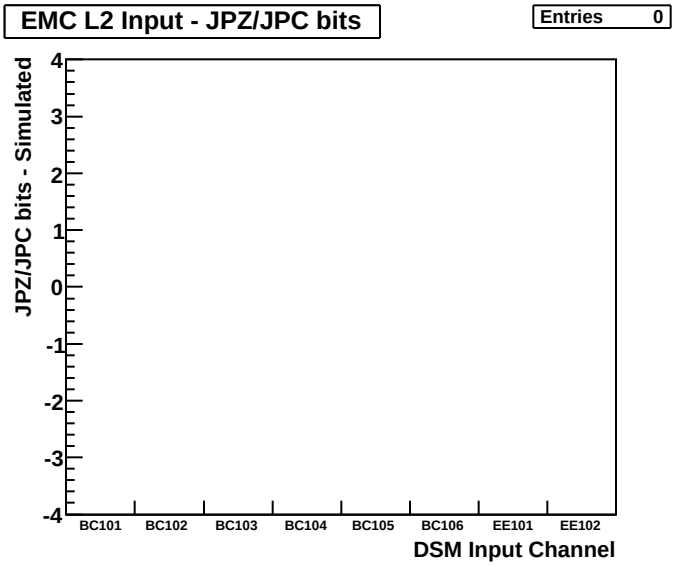

EMC L2 Input - JPX/JPA bits
Entries 25136
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
21 81 6 5 6 7 3 4
41 402 20 3 42 16 3 5
128 563 63 22 59 32 5 7
2952 2996 3053 3112 3035 3087 3131 3126

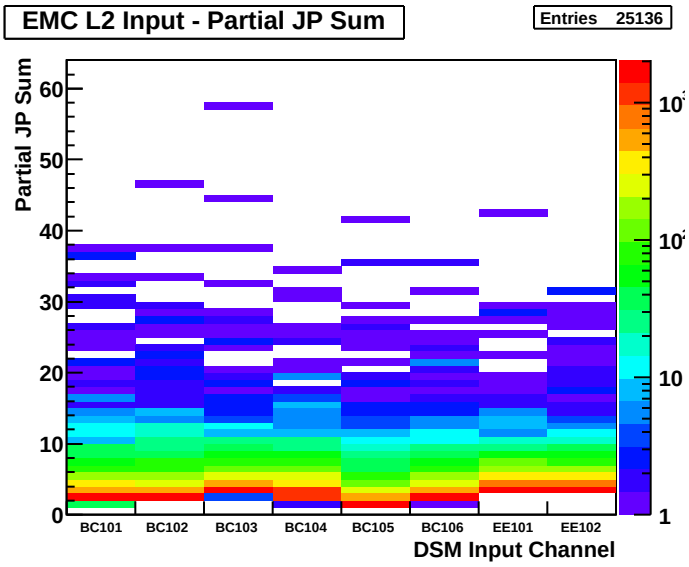

EMC L2 Input - JPX/JPA bits
Entries 0
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

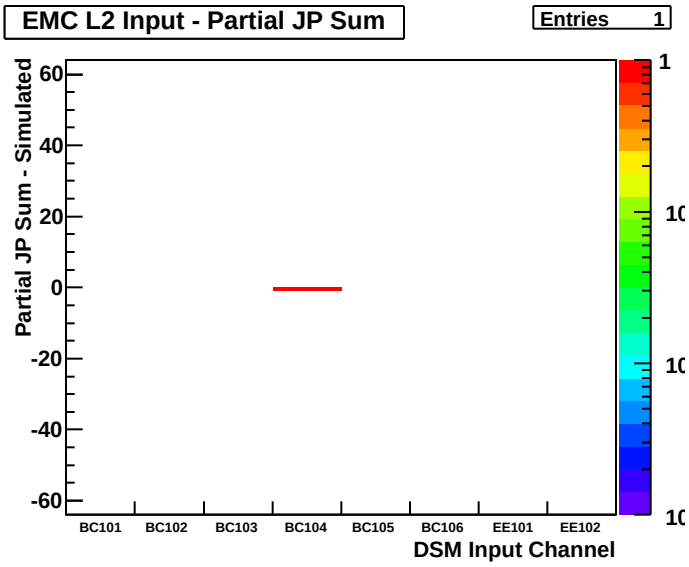

EMC L2 Input - JPY/JPB bits
Entries 25136
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
12 40 4 1 2 7 4 3
31 227 9 7 7 21 7 4
83 437 34 9 33 50 3 3
3006 2438 3095 3125 3100 3064 3128 3132

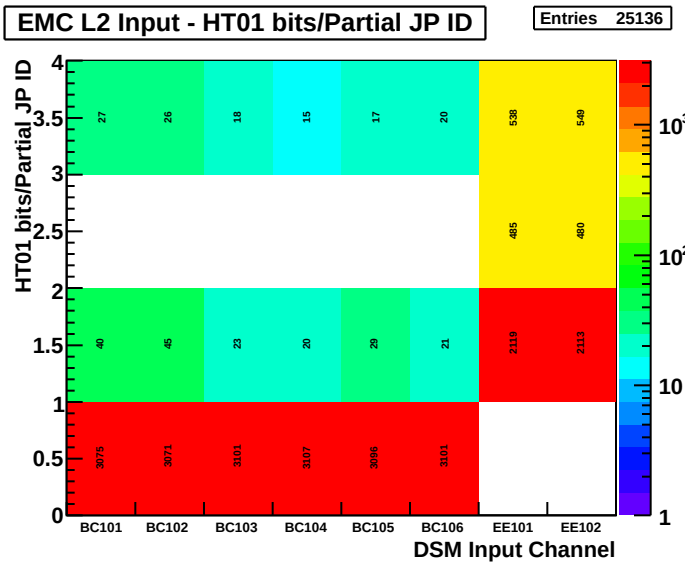

EMC L2 Input - JPY/JPB bits
Entries 0
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

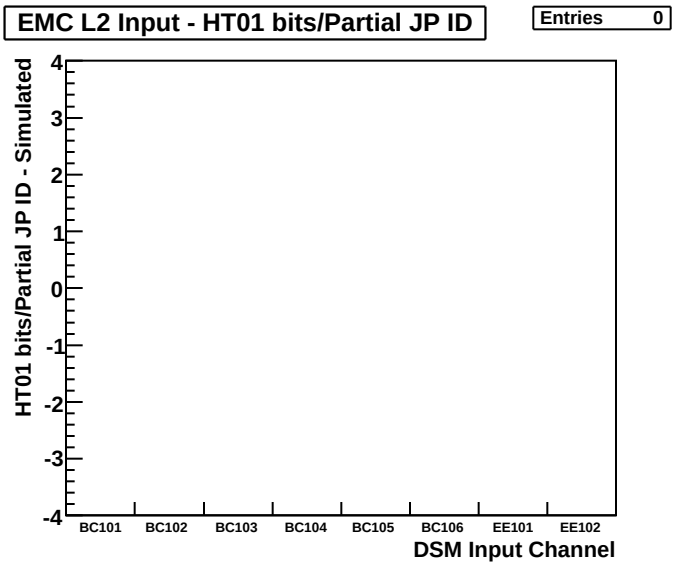

EMC L2 Input - JPZ/JPC bits
Entries 25136
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
10 6 8 3 3 7
18 15 11 5 8 15 4 8
37 52 21 23 16 21 4 4
3077 3069 3102 3111 3115 3099 3134 3130

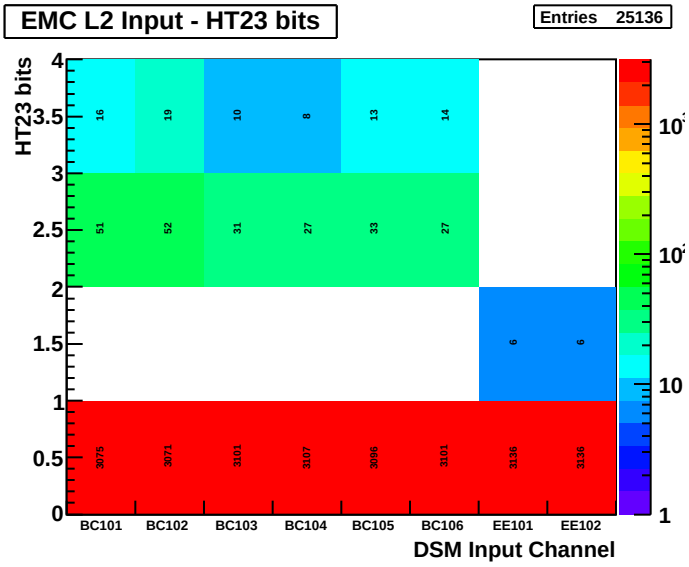

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

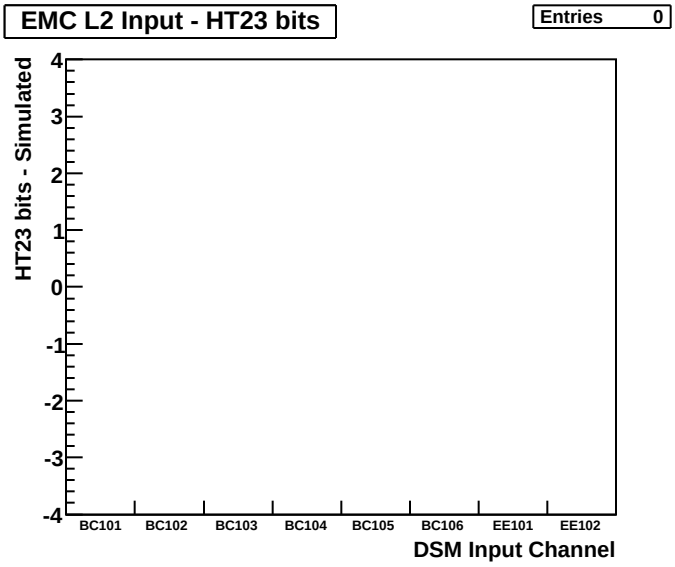

EMC L2 Input - Partial JP Sum
Entries 25136
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

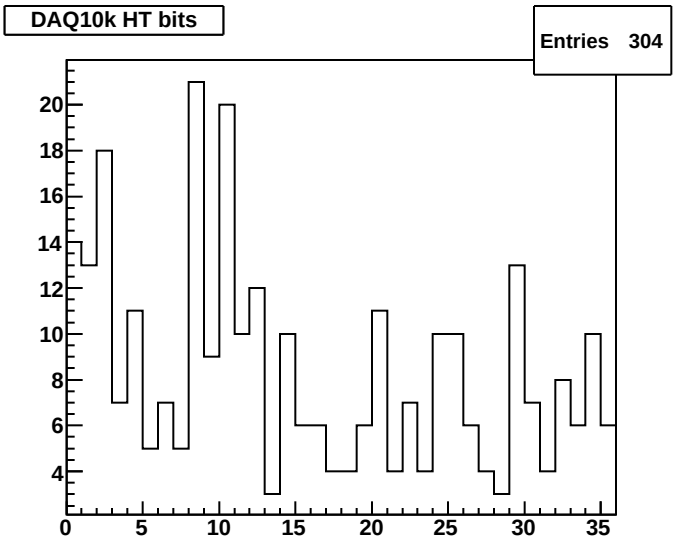

EMC L2 Input - Partial JP Sum
Entries 1
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

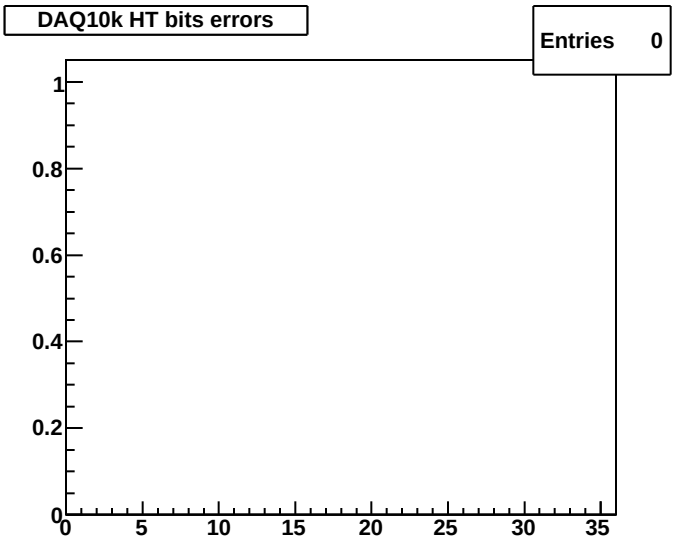

EMC L2 Input - HT01 bits/Partial JP ID
Entries 25136
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

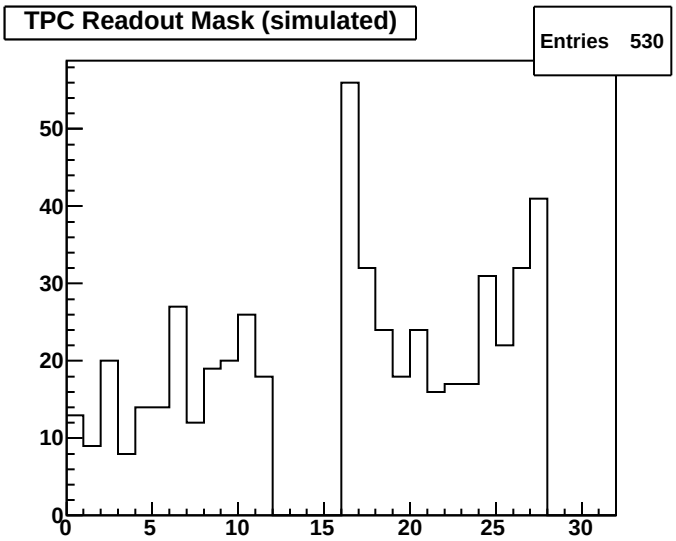

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

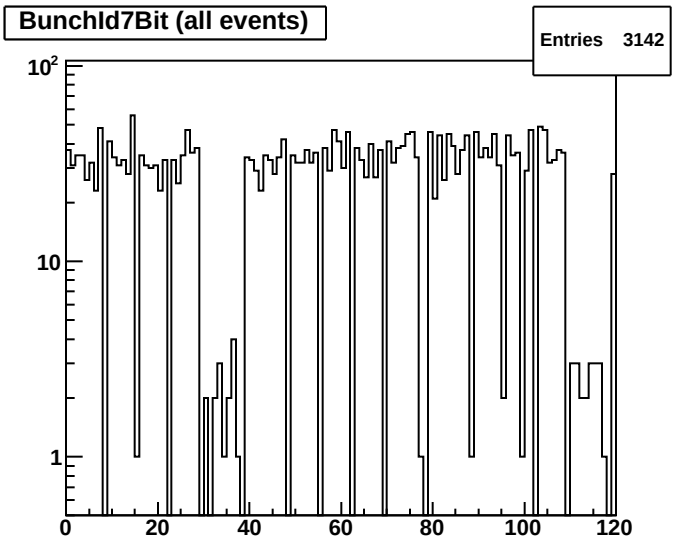

EMC L2 Input - HT23 bits
Entries 25136
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

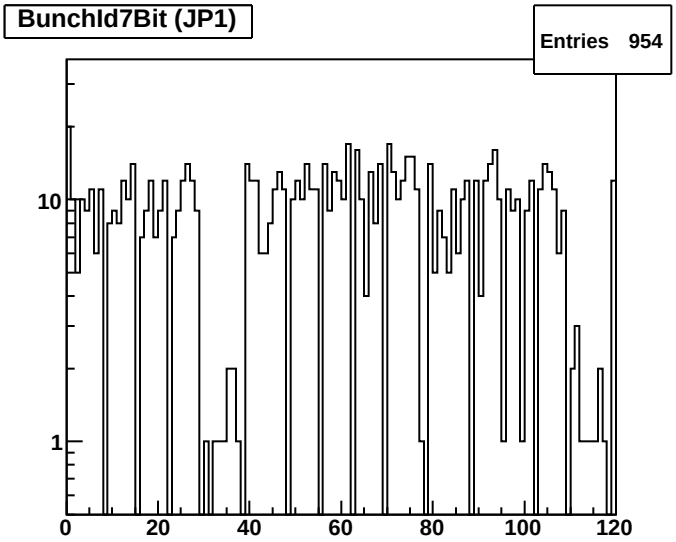

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

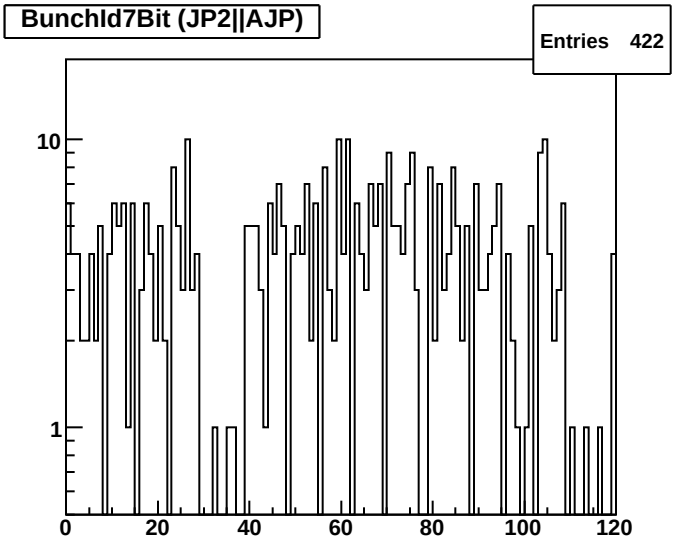

DAQ10k HT bits
Entries 304

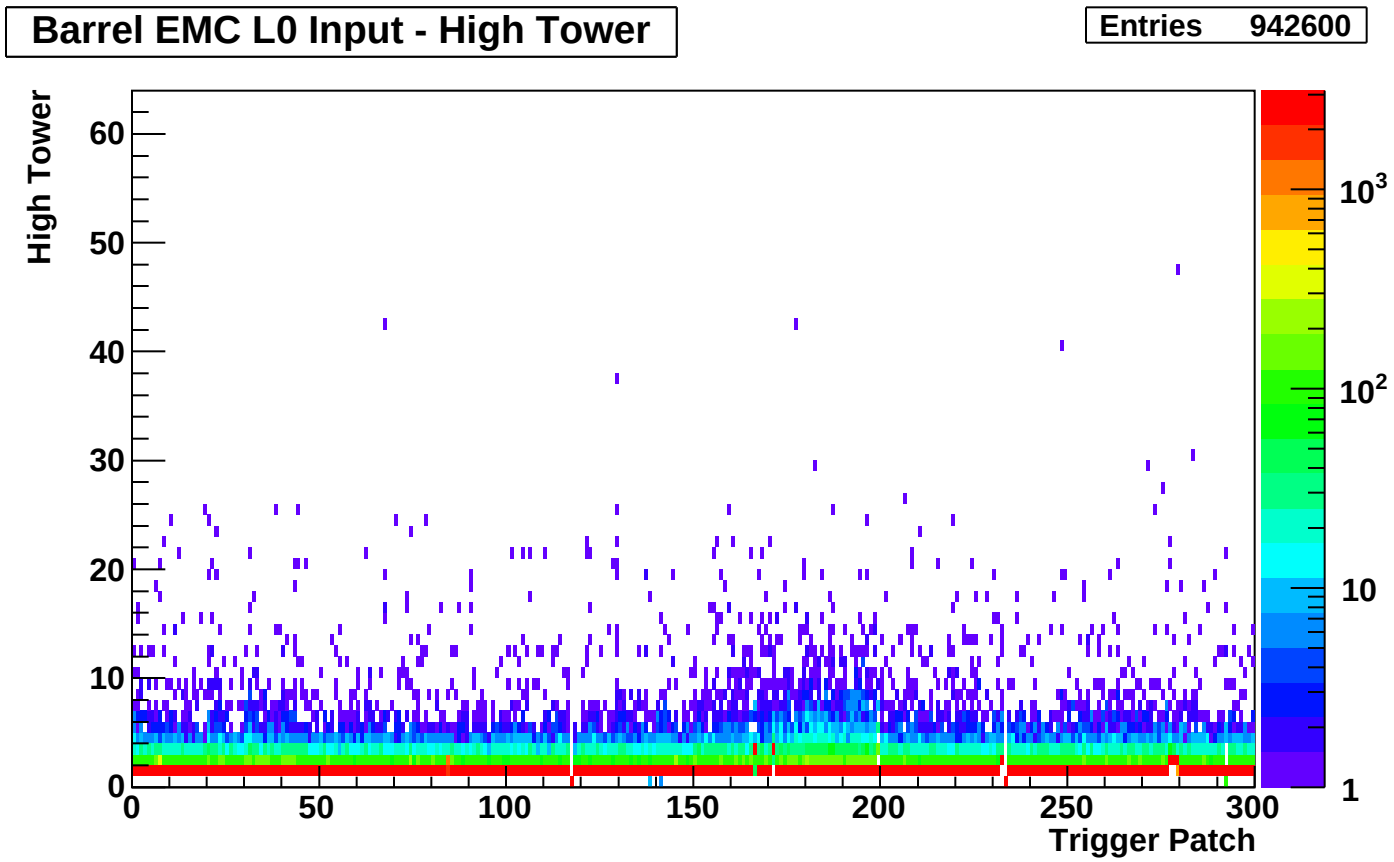

DAQ10k HT bits errors
Entries 0

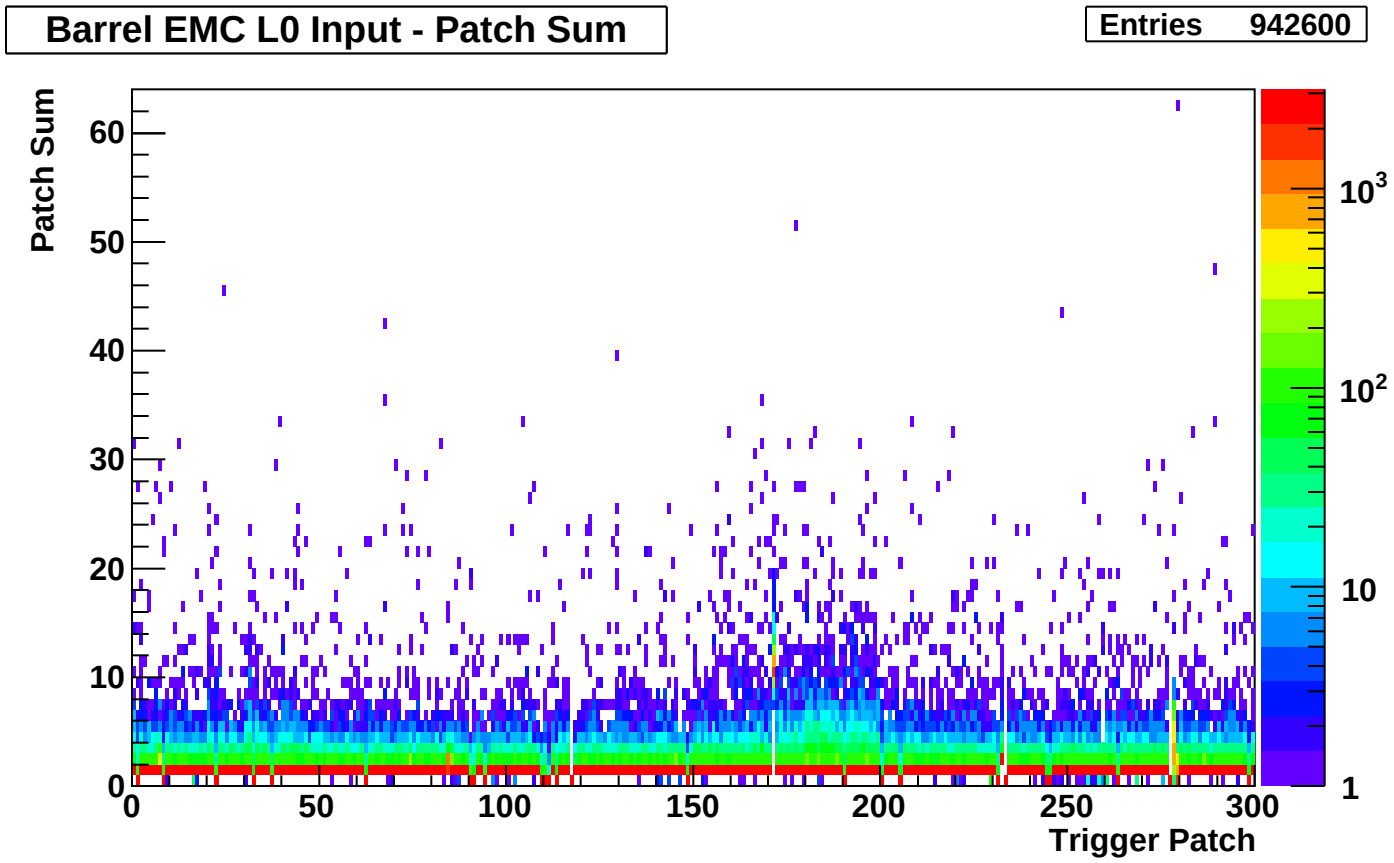

TPC Readout Mask (simulated)
Entries 530

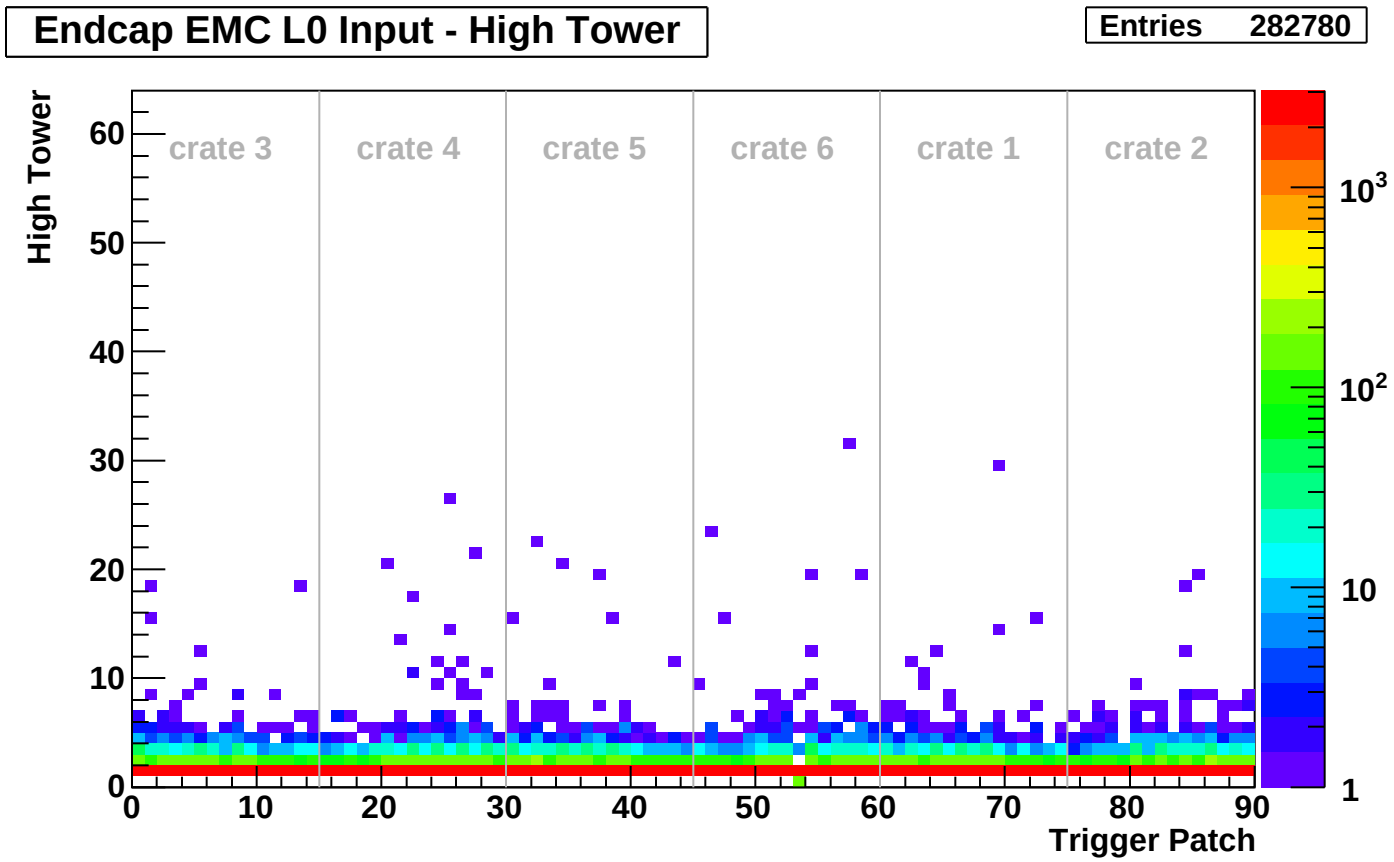

BunchId7Bit (all events)
Entries 3142

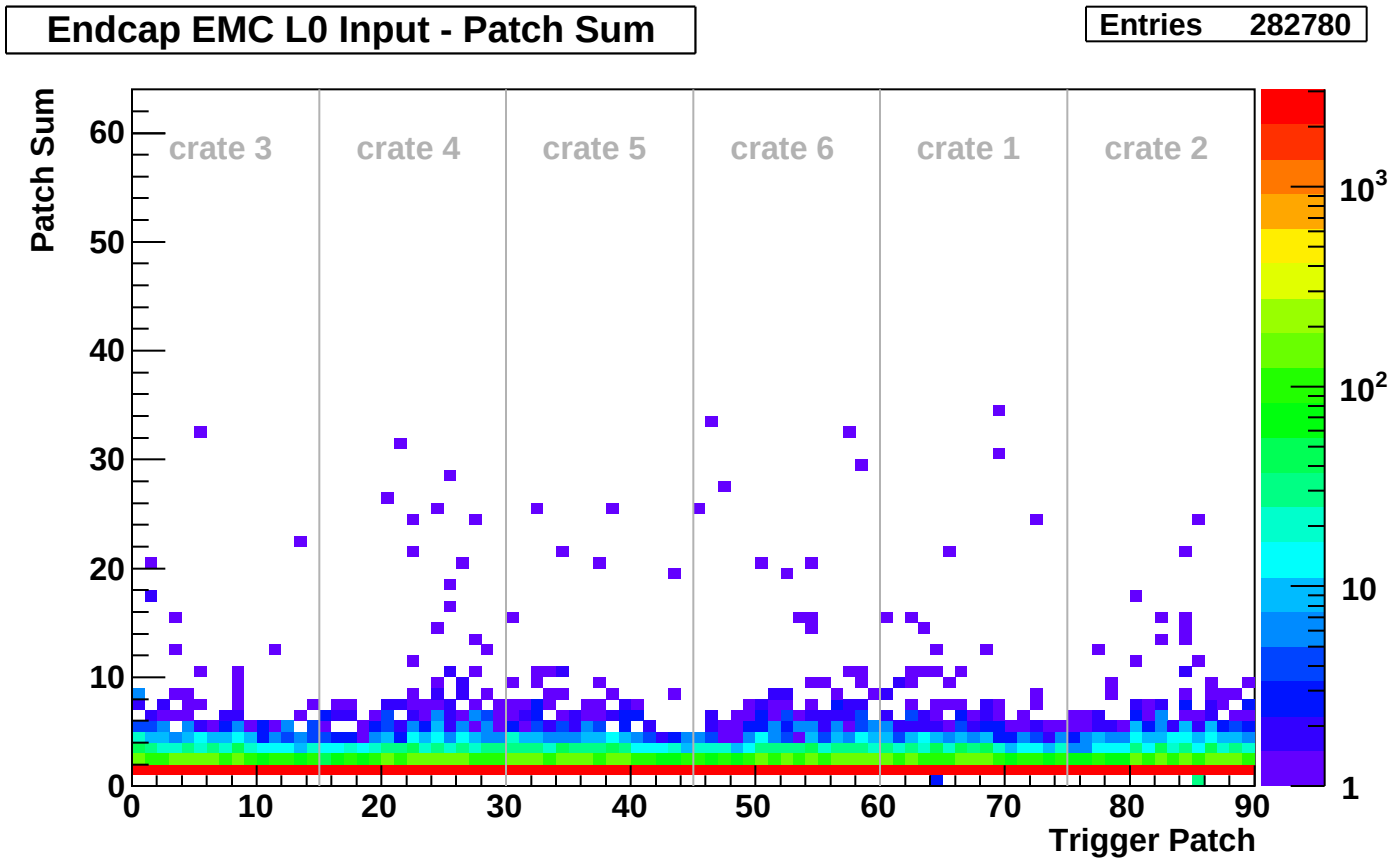

BunchId7Bit (JP1)
Entries 954

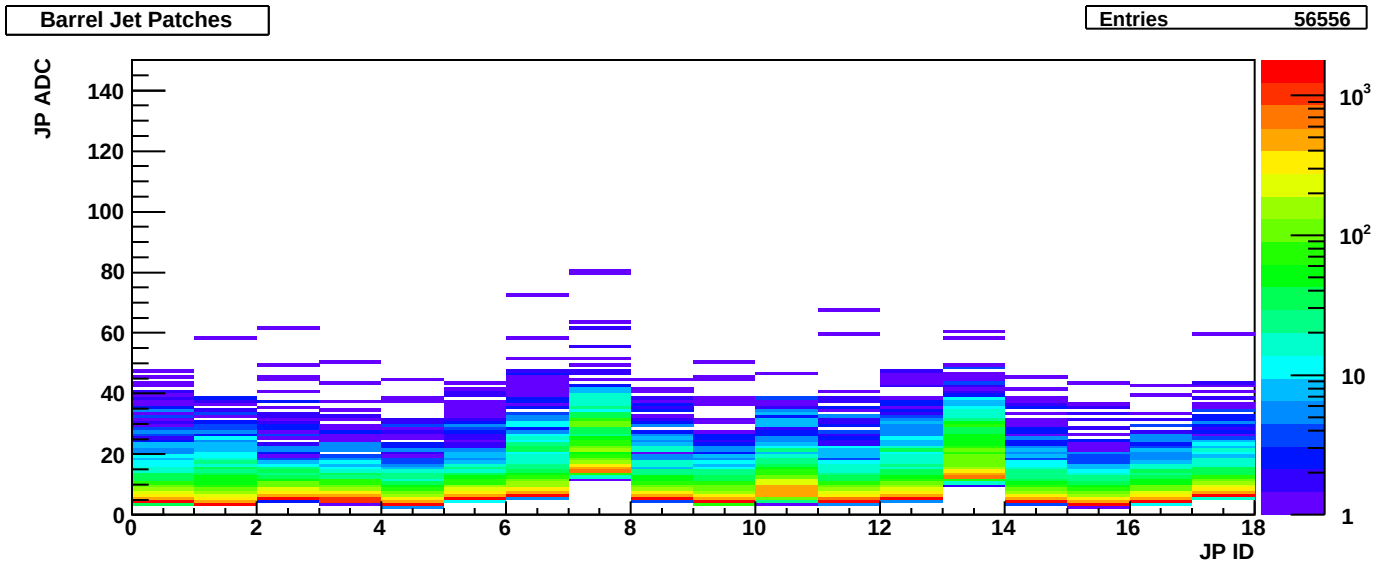

BunchId7Bit (JP2||AJP)
Entries 422

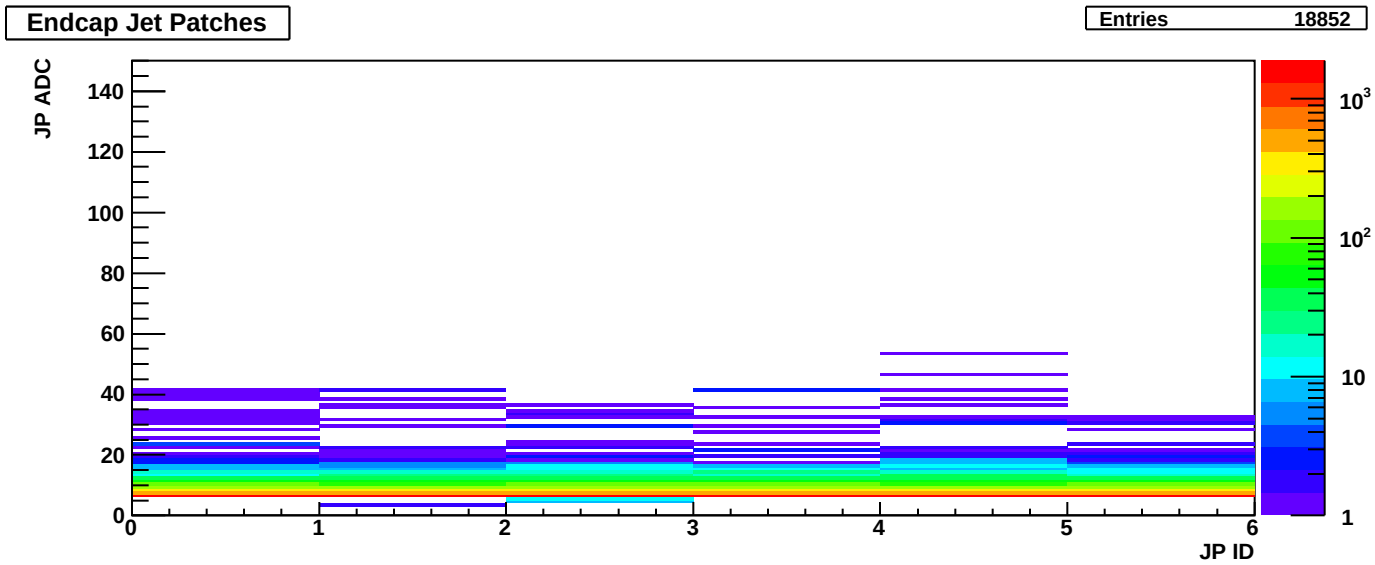

Barrel EMC L0 Input - High Tower
Entries 942600
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3

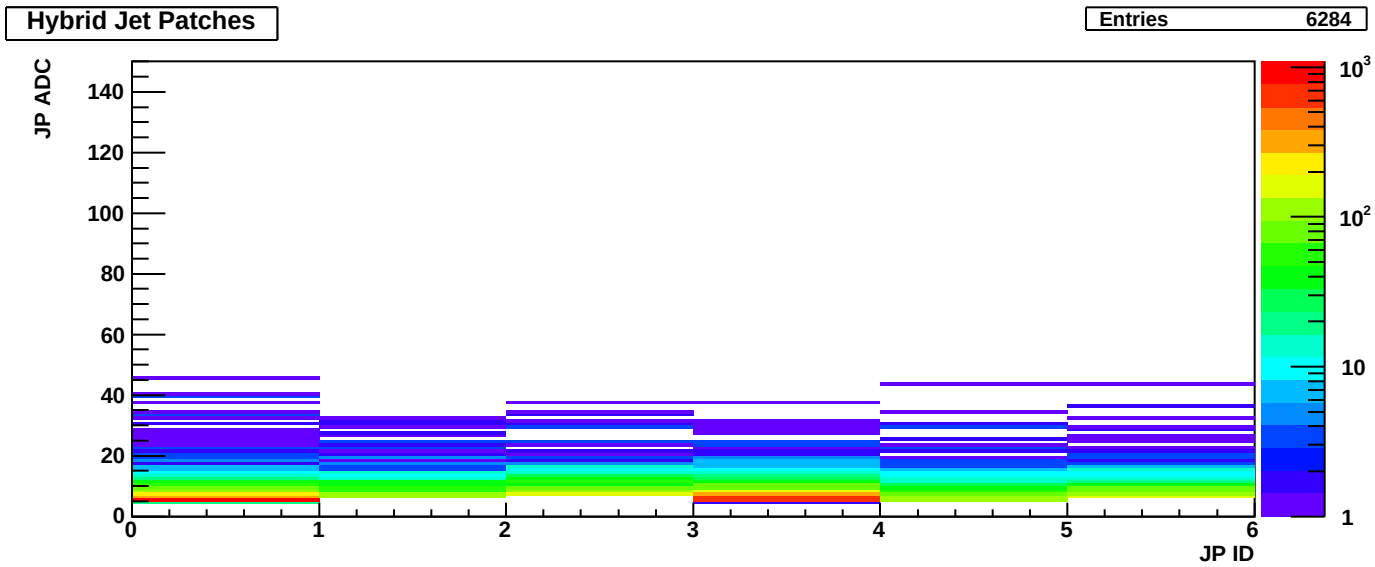

Barrel EMC L0 Input - Patch Sum
Entries 942600
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3

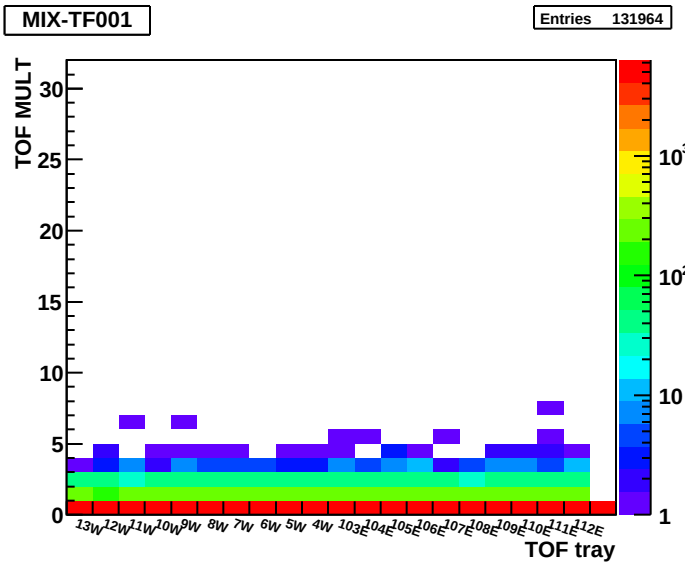

Endcap EMC L0 Input - High Tower
Entries 282780
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

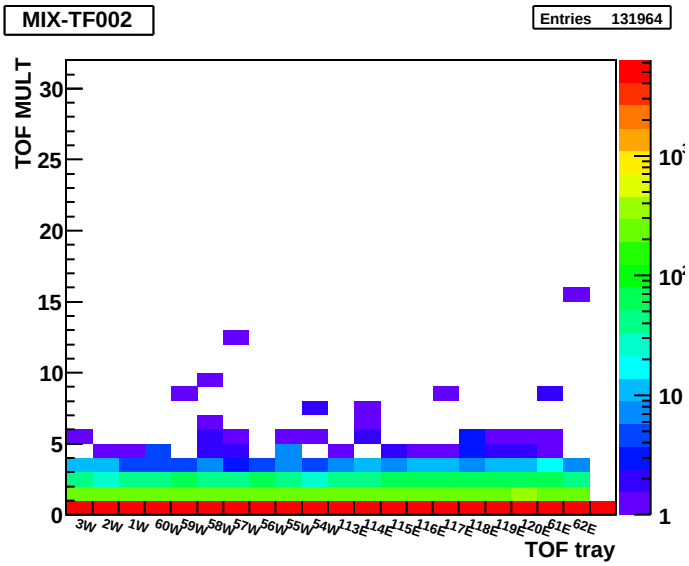

Endcap EMC L0 Input - Patch Sum
Entries 282780
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch
0
10
20
30
40
50
60
70
80
90
1
10
10^2
10^3

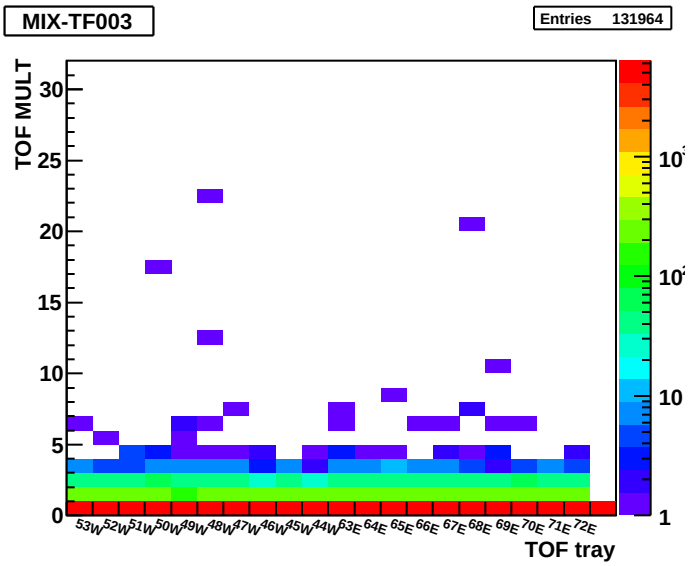

Barrel Jet Patches
Entries 56556
JP ADC
JP ID

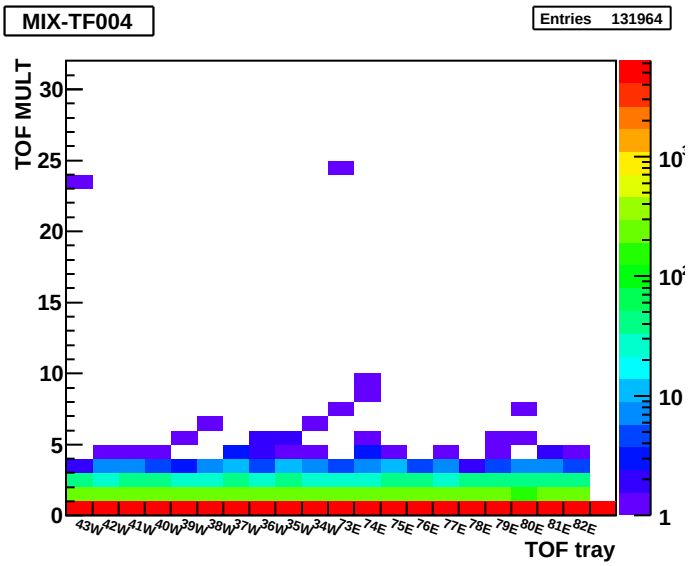

Endcap Jet Patches
Entries 18852
JP ADC
JP ID

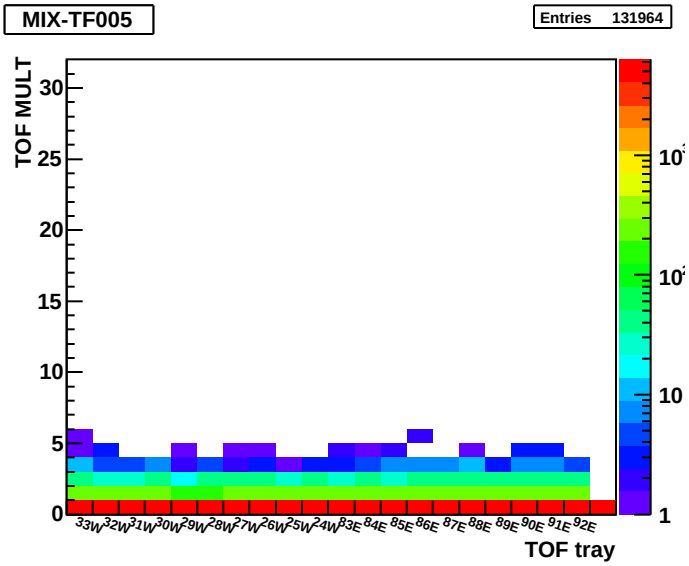

Hybrid Jet Patches
Entries 6284
JP ADC
JP ID

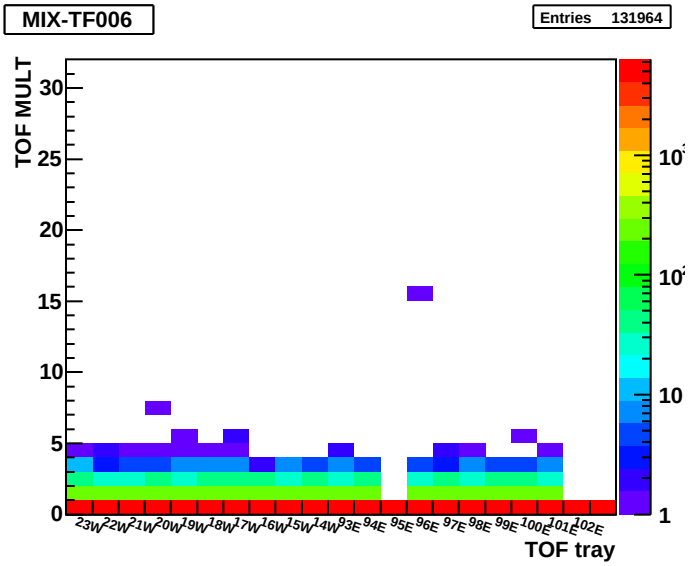

MIX-TF001
Entries 131964
TOF MULT
TOF tray

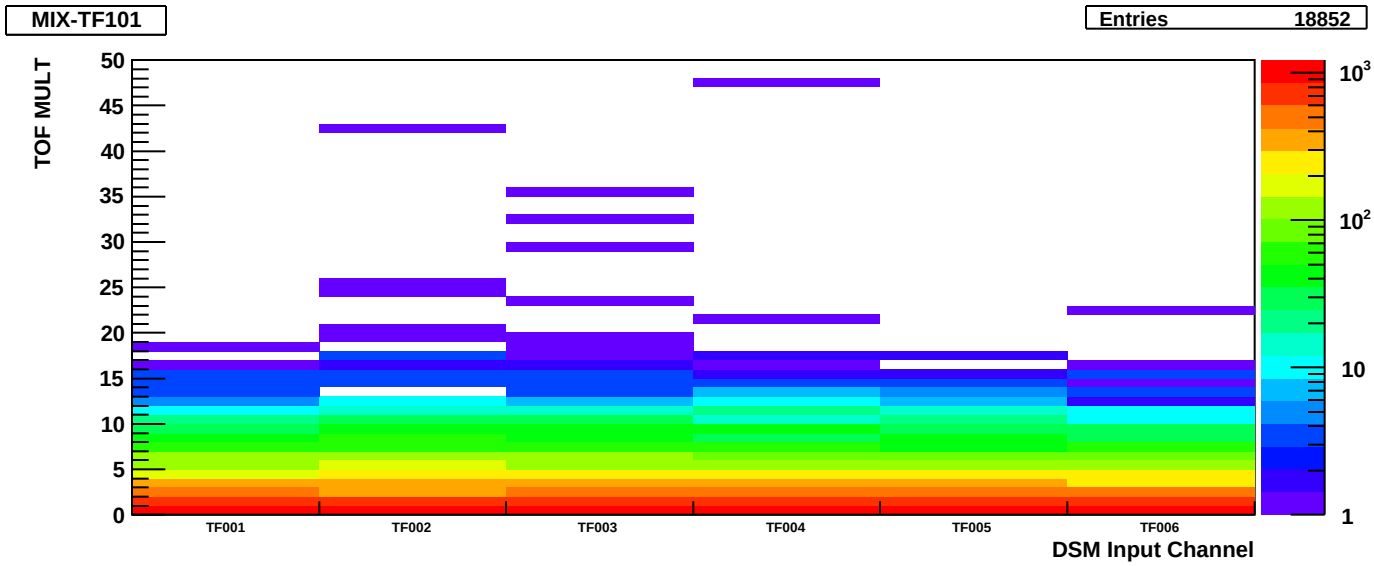

MIX-TF002
Entries 131964
TOF MULT
TOF tray

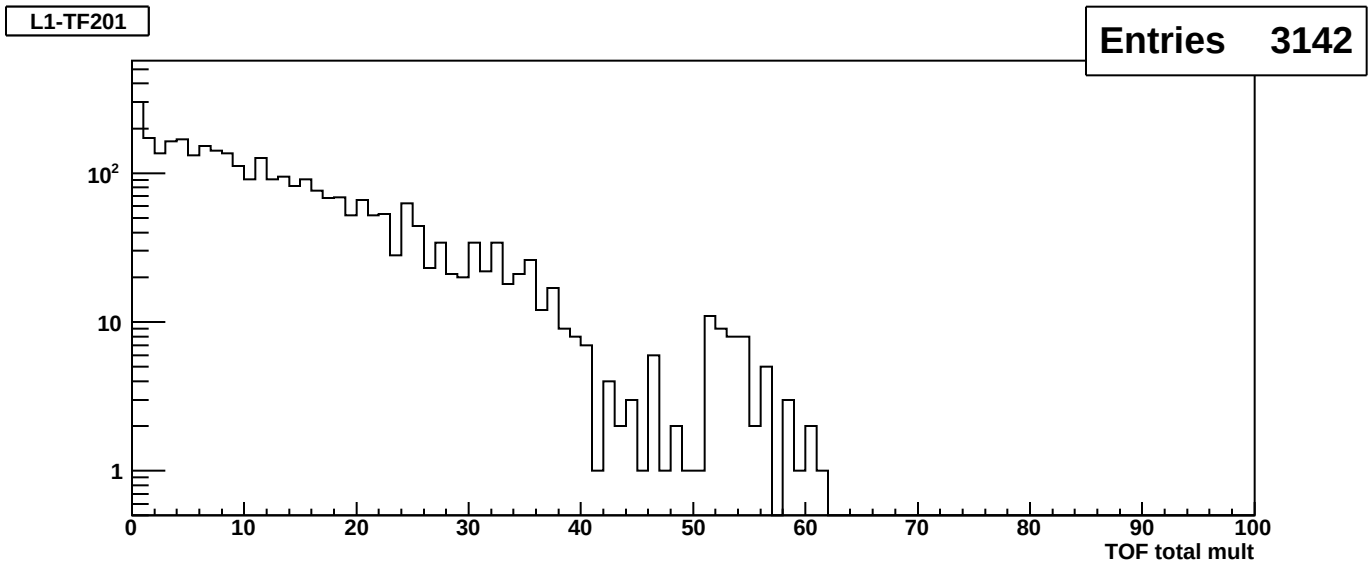

MIX-TF003
Entries 131964
TOF MULT
TOF tray

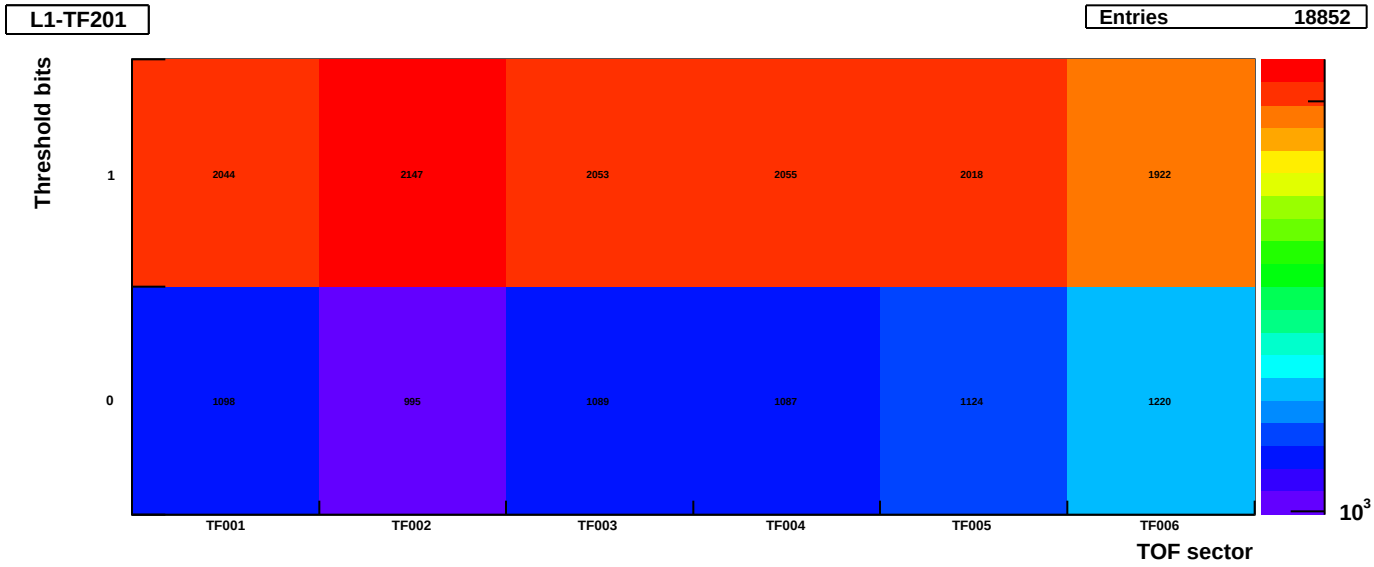

MIX-TF004
Entries 131964
TOF MULT
TOF tray

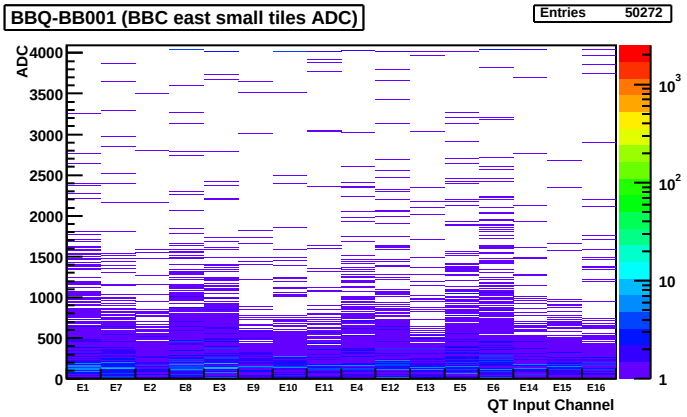

MIX-TF005
Entries 131964
TOF MULT
TOF tray

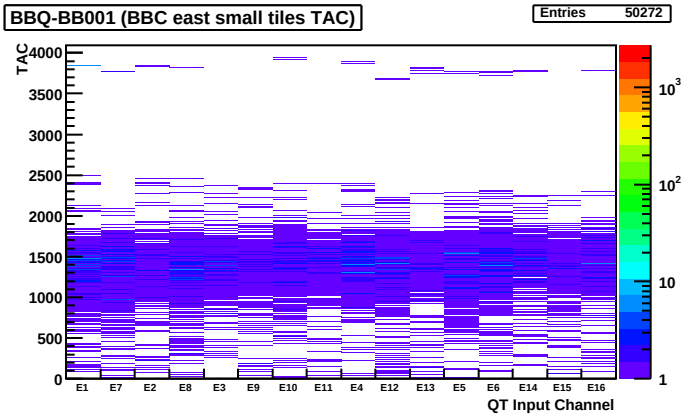

MIX-TF006
Entries 131964
TOF MULT
TOF tray

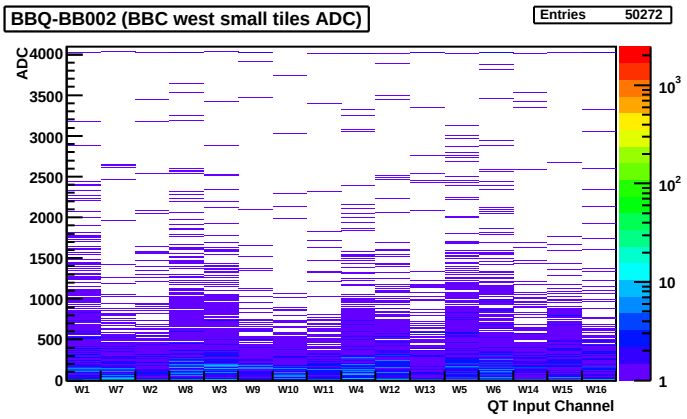

MIX-TF101
Entries 18852
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^3
10^2
10
1

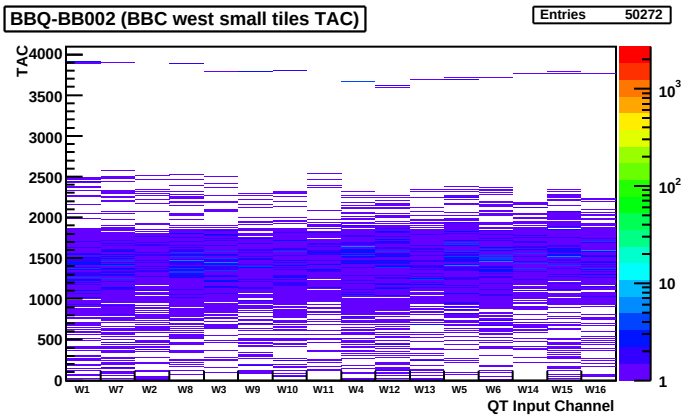

L1-TF201
Entries 3142
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

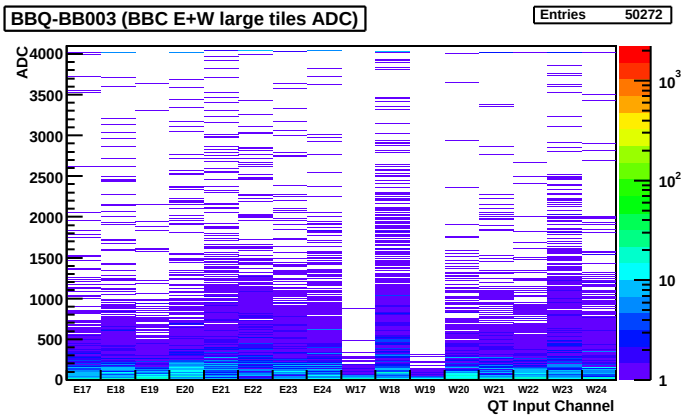

L1-TF201
Entries 18852
Threshold bits
1
0
2044
2147
2053
2055
2018
1922
1098
995
1089
1087
1124
1220
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^3

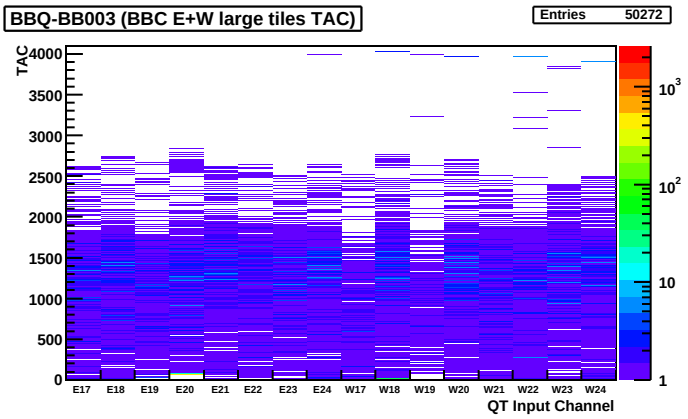

BBQ-BB001 (BBC east small tiles ADC)
Entries 50272
ADC
QT Input Channel

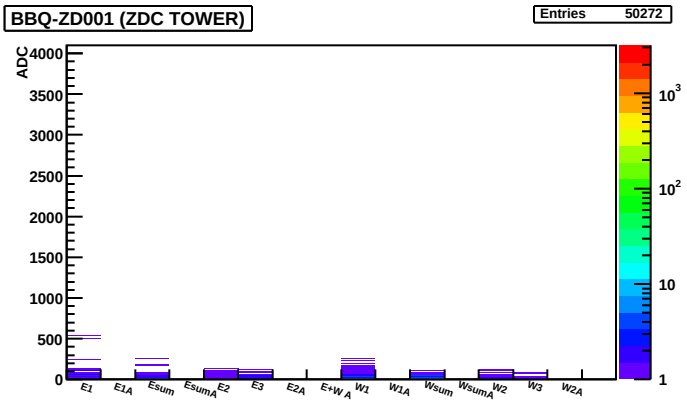

BBQ-BB001 (BBC east small tiles TAC)
Entries 50272
TAC
QT Input Channel

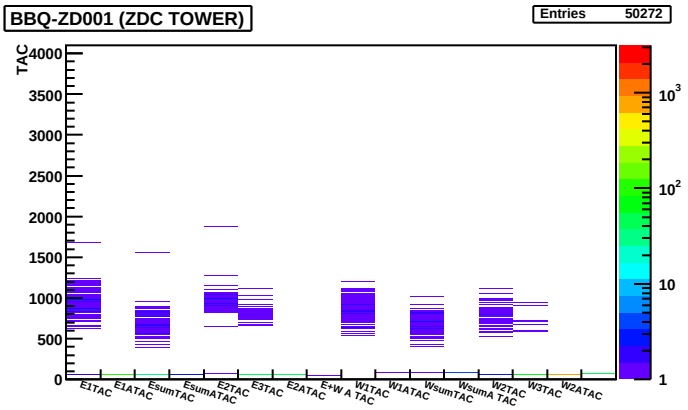

BBQ-BB002 (BBC west small tiles ADC)
Entries 50272
ADC
QT Input Channel

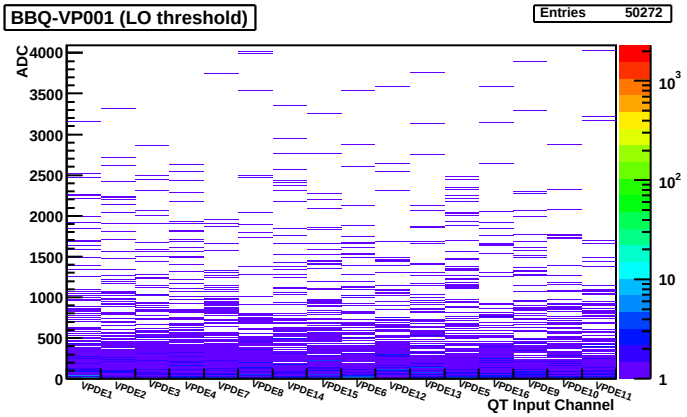

BBQ-BB002 (BBC west small tiles TAC)
Entries 50272
TAC
QT Input Channel

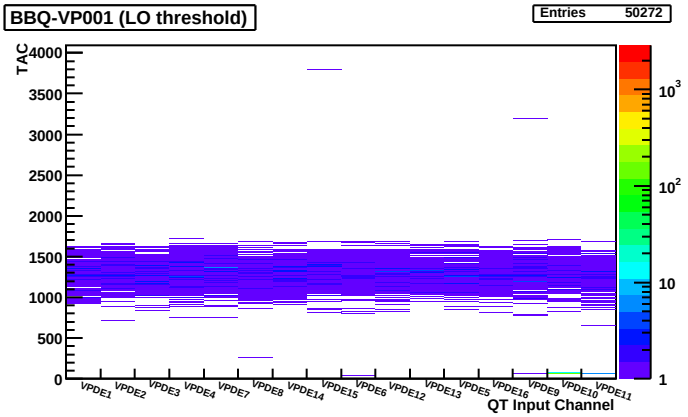

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 50272
ADC
QT Input Channel

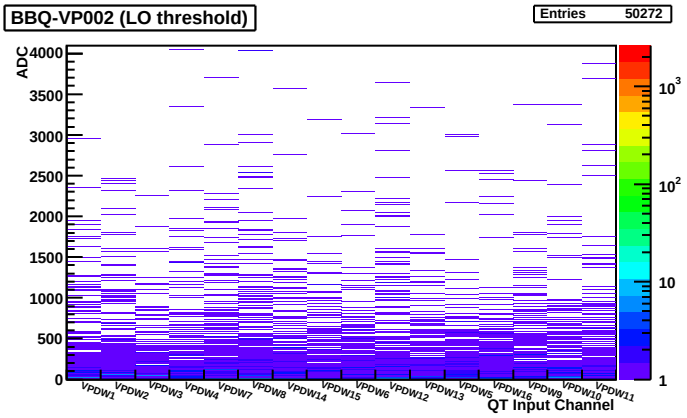

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 50272
TAC
QT Input Channel

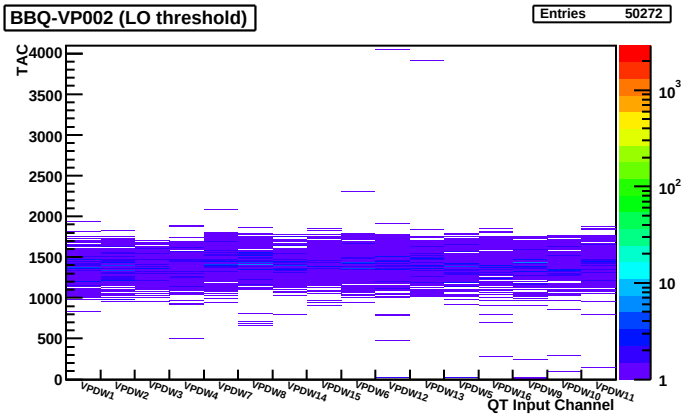

BBQ-ZD001 (ZDC TOWER)
Entries 50272
ADC

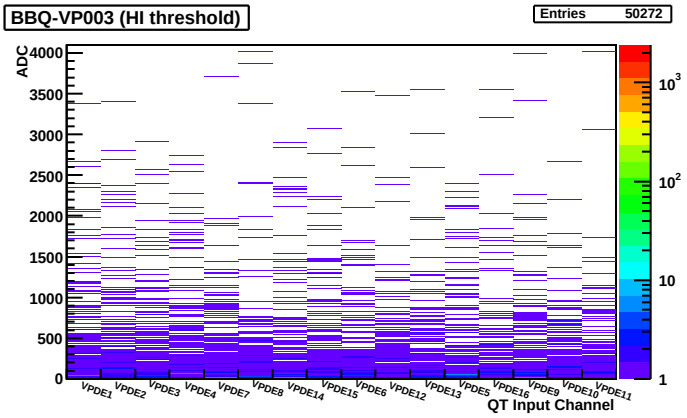

BBQ-ZD001 (ZDC TOWER)
Entries 50272
TAC

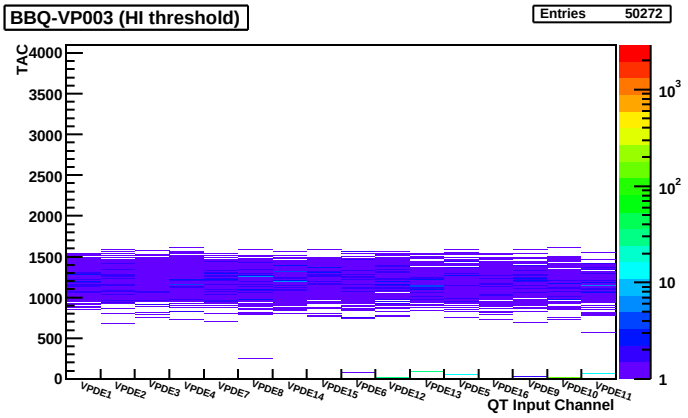

BBQ-VP001 (LO threshold)
Entries 50272
ADC
QT Input Channel

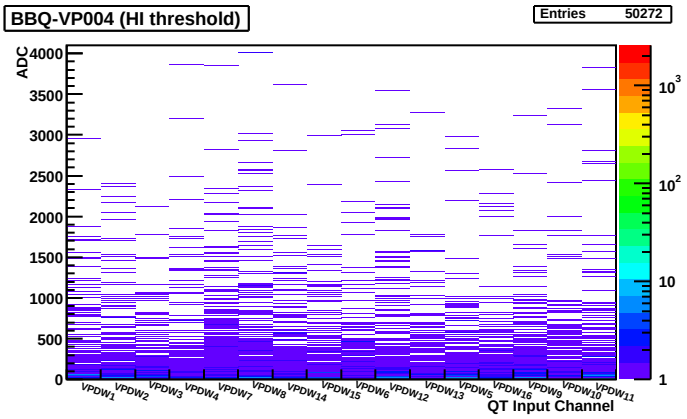

BBQ-VP001 (LO threshold)
Entries 50272
TAC
QT Input Channel

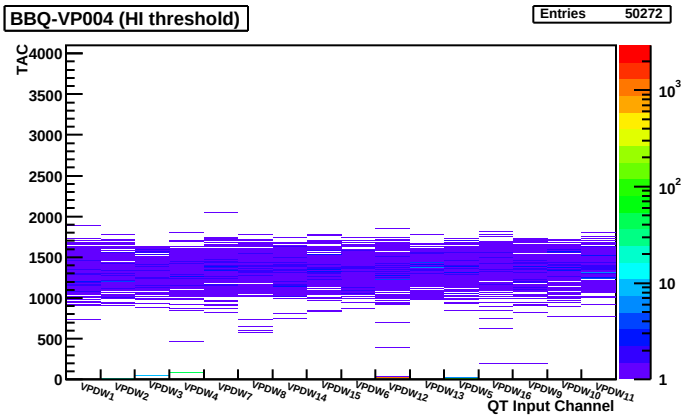

BBQ-VP002 (LO threshold)
Entries 50272
ADC
QT Input Channel

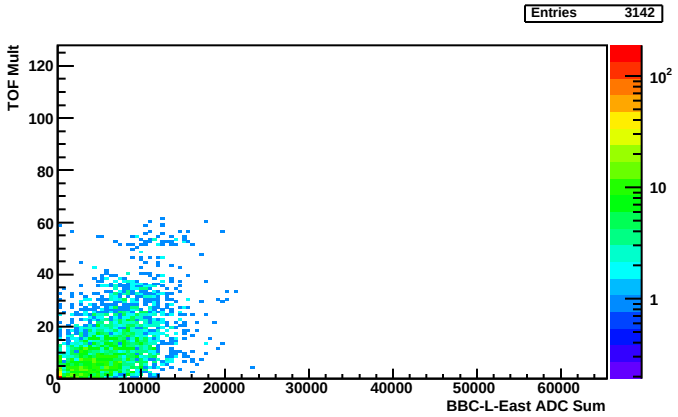

BBQ-VP002 (LO threshold)
Entries 50272
TAC
QT Input Channel

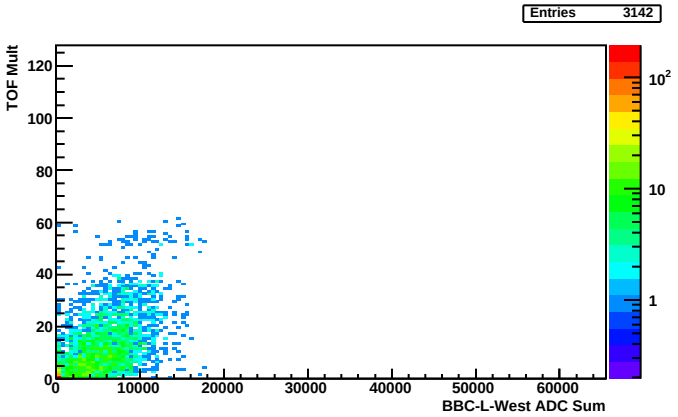

BBQ-VP003 (HI threshold)
Entries 50272
ADC
QT Input Channel

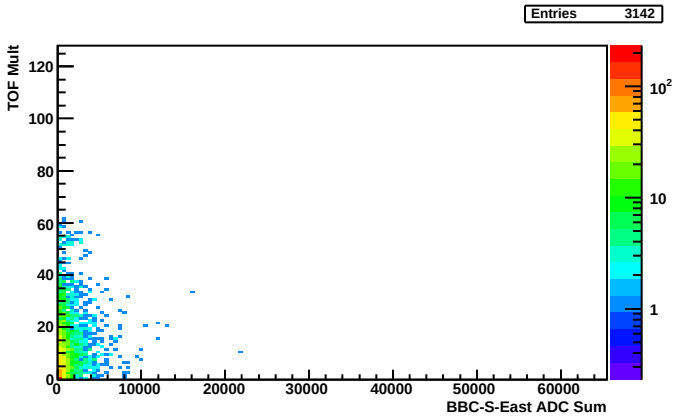

BBQ-VP003 (HI threshold)
Entries 50272
TAC
QT Input Channel

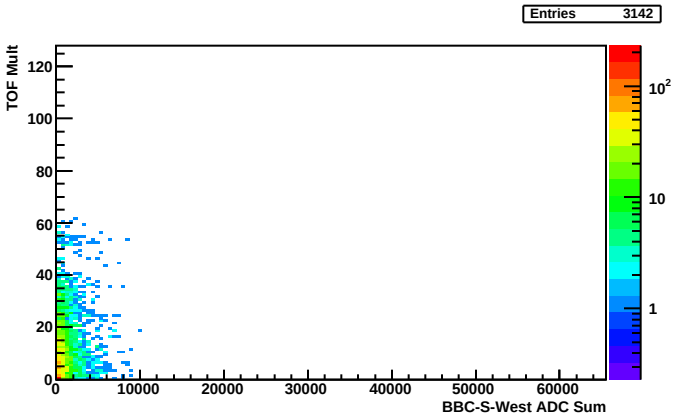

BBQ-VP004 (HI threshold)
Entries 50272
ADC
QT Input Channel

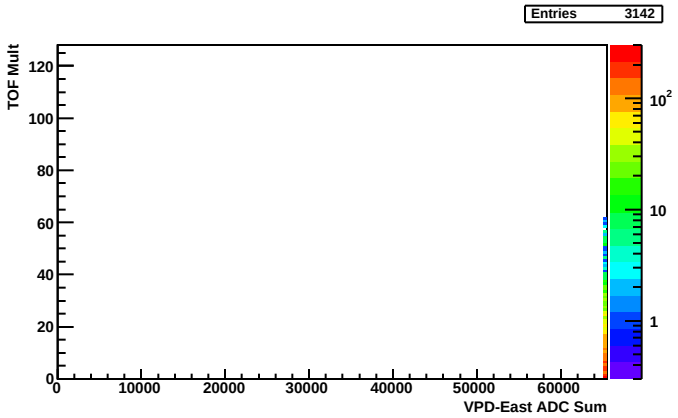

BBQ-VP004 (HI threshold)
Entries 50272
TAC
QT Input Channel

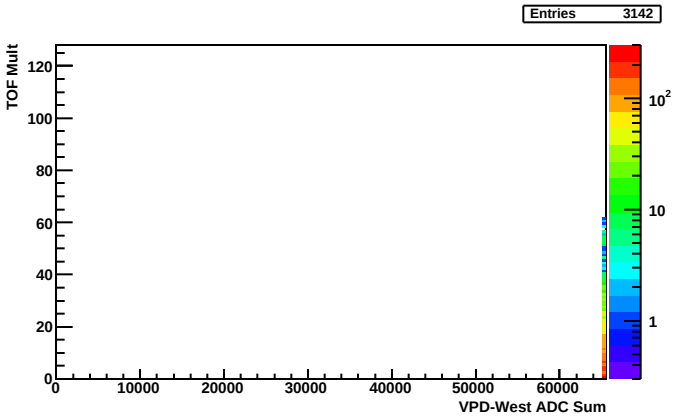

Entries 3142
TOF Mult
BBC-L-East ADC Sum

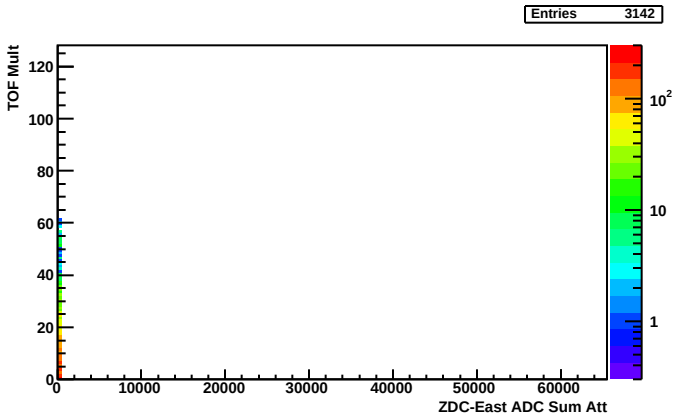

Entries 3142
TOF Mult
BBC-L-West ADC Sum

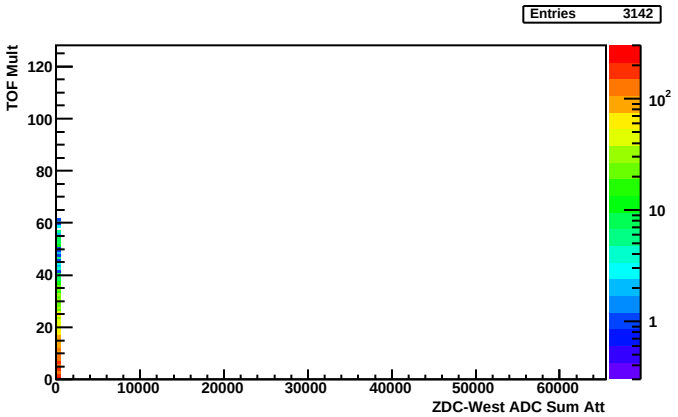

Entries 3142
TOF Mult
BBC-S-East ADC Sum

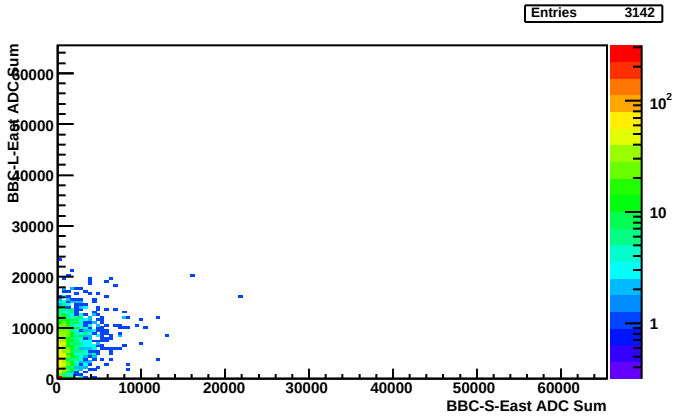

Entries 3142
TOF Mult
BBC-S-West ADC Sum

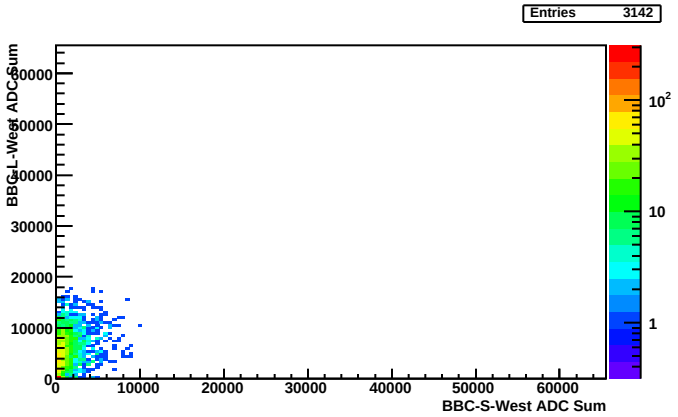

Entries 3142
TOF Mult
VPD-East ADC Sum

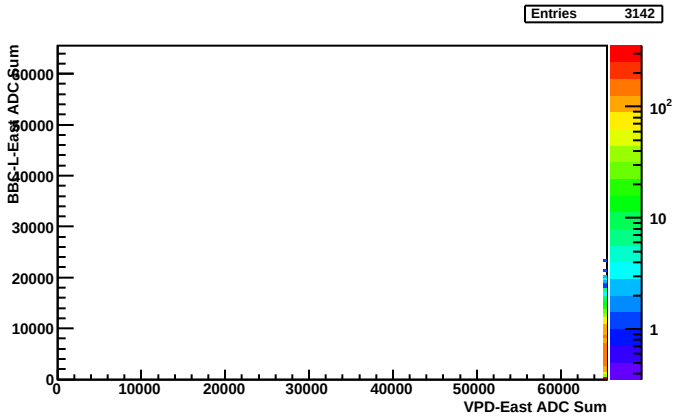

Entries 3142
TOF Mult
VPD-West ADC Sum

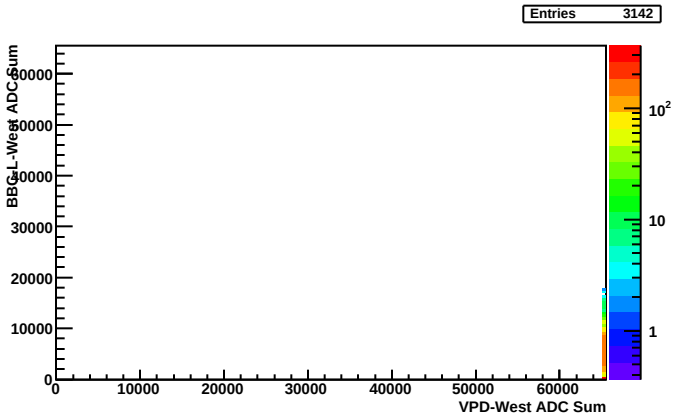

Entries 3142
TOF Mult
ZDC-East ADC Sum Att

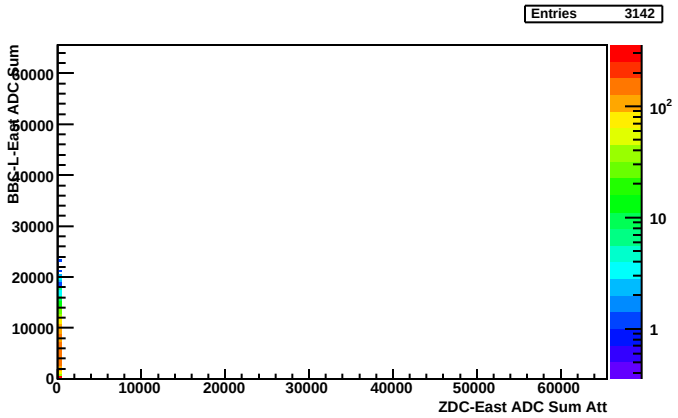

Entries 3142
TOF Mult
ZDC-West ADC Sum Att

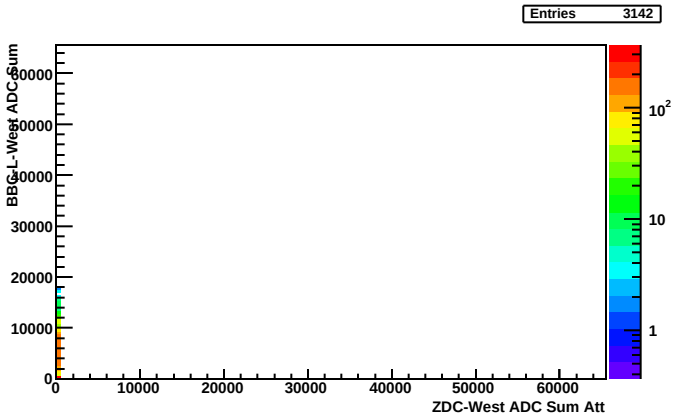

Entries 3142
BBC-L-East ADC Sum
BBC-S-East ADC Sum

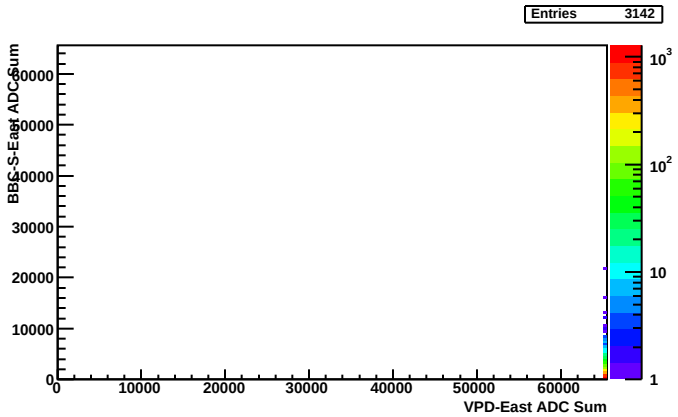

Entries 3142
BBC-L-West ADC Sum
BBC-S-West ADC Sum

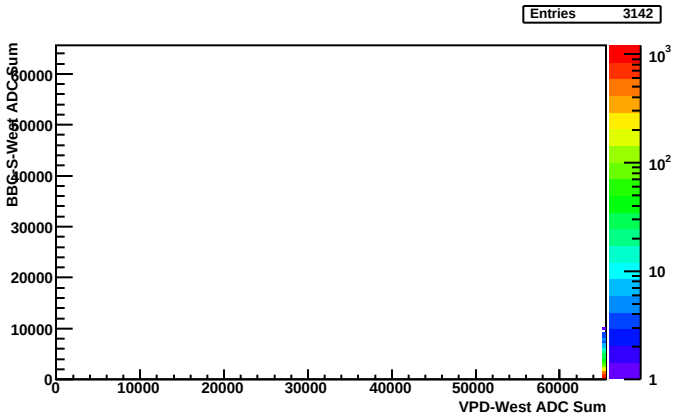

Entries 3142
BBC-L-East ADC Sum
VPD-East ADC Sum

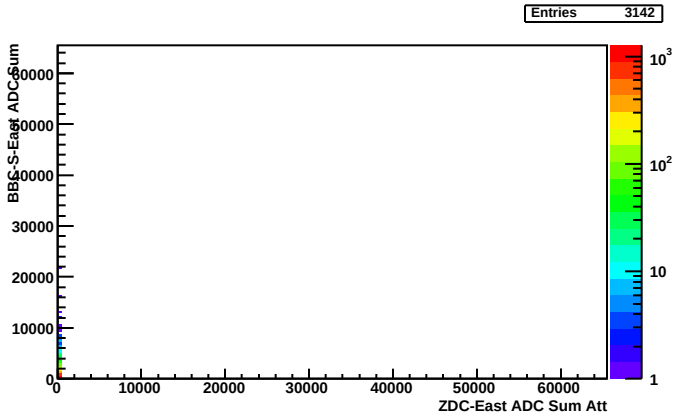

Entries 3142
BBC-L-West ADC Sum
VPD-West ADC Sum

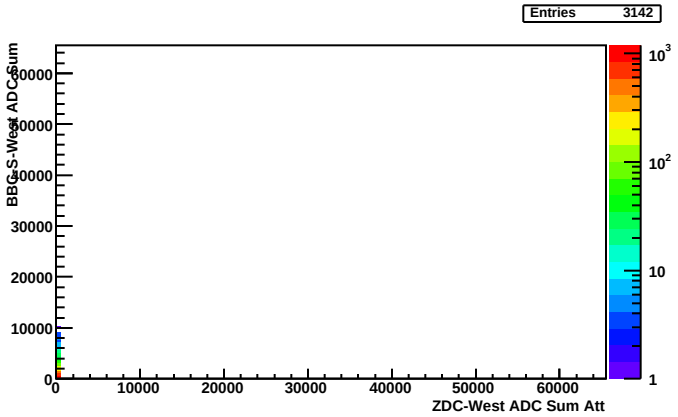

Entries 3142
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

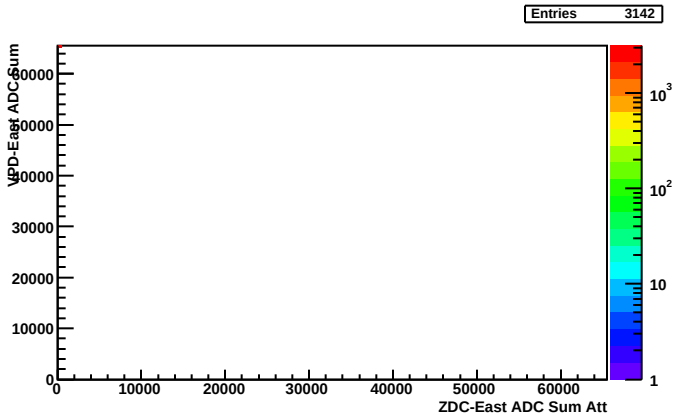

Entries 3142
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

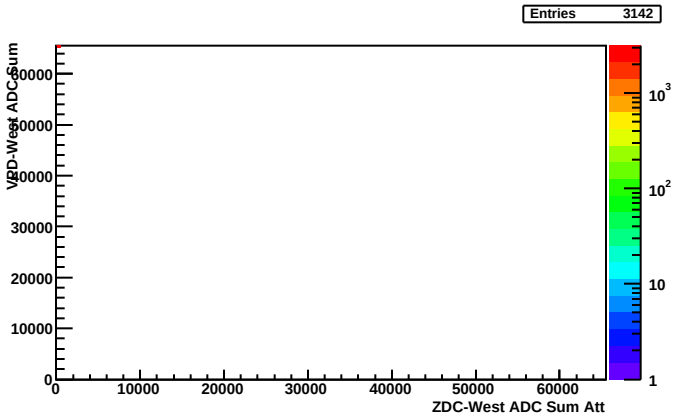

Entries 3142
BBC-S-East ADC Sum
VPD-East ADC Sum

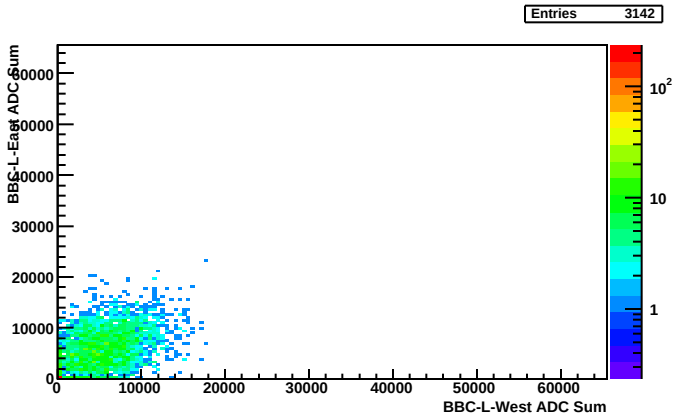

Entries 3142
BBC-S-West ADC Sum
VPD-West ADC Sum

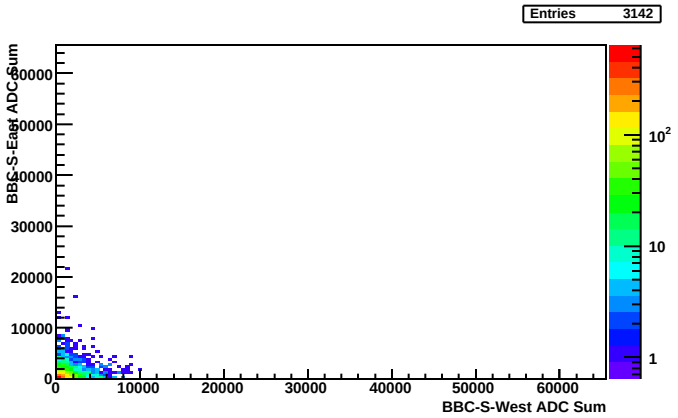

Entries 3142
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

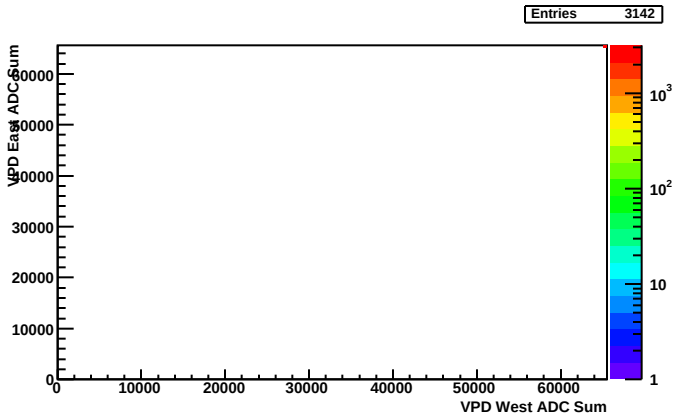

Entries 3142
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

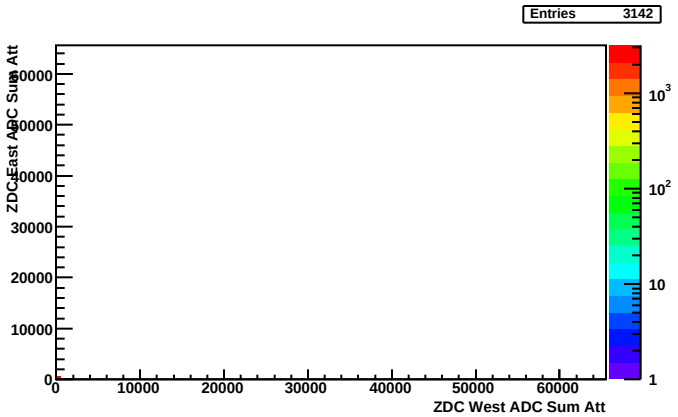

Entries 3142
VPD-East ADC Sum
ZDC-East ADC Sum Att

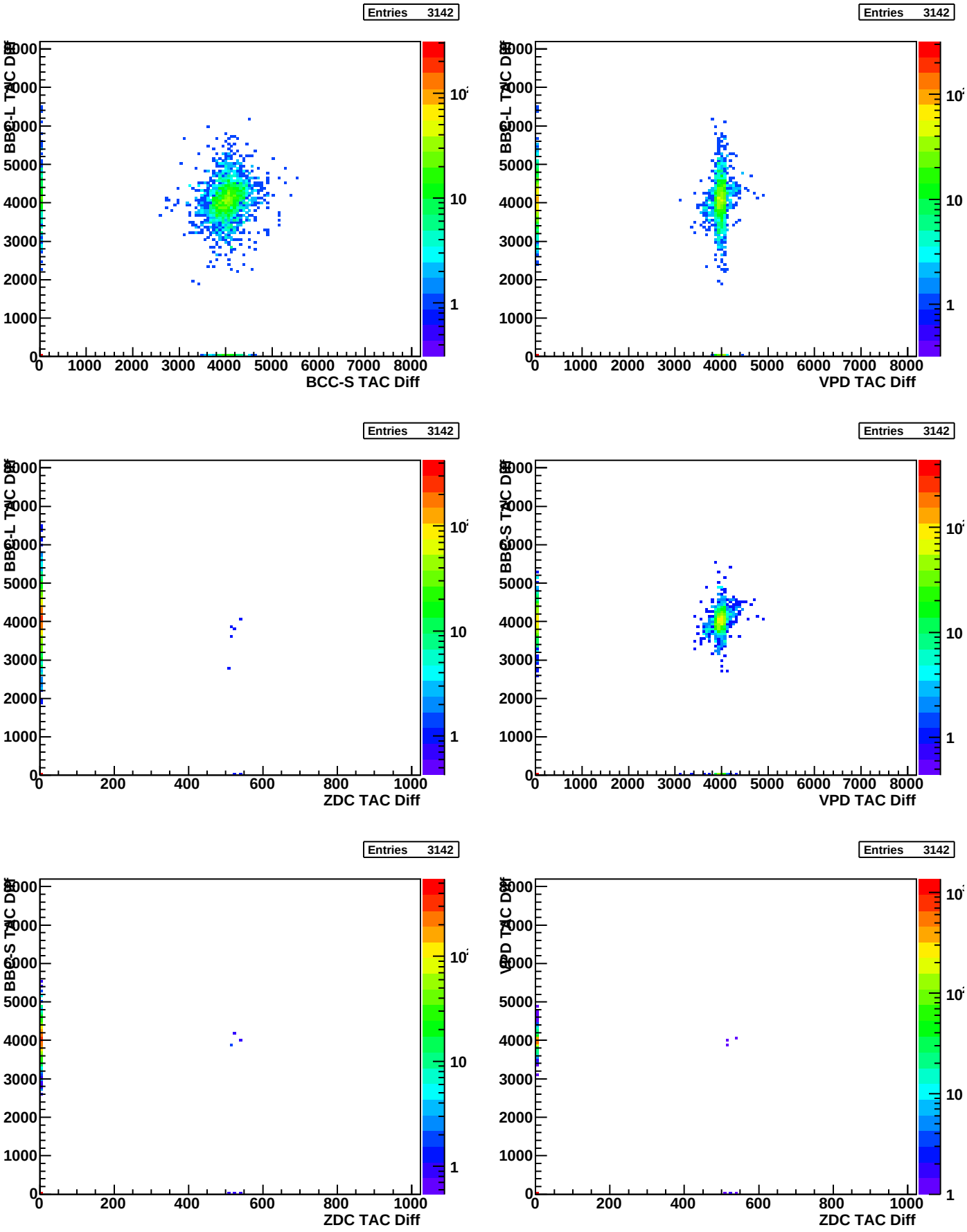

Entries 3142
VPD-West ADC Sum
ZDC-West ADC Sum Att

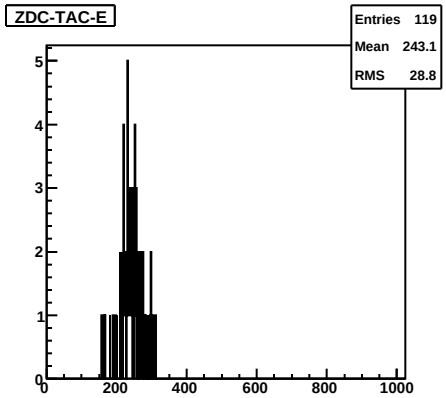

Entries 3142
BBC-L-East ADC Sum
BBC-L-West ADC Sum

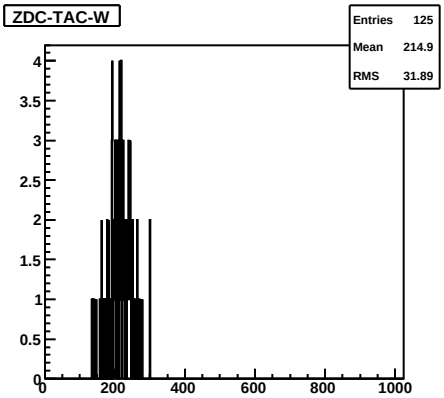

Entries 3142
BBC-S-East ADC Sum
BBC-S-West ADC Sum

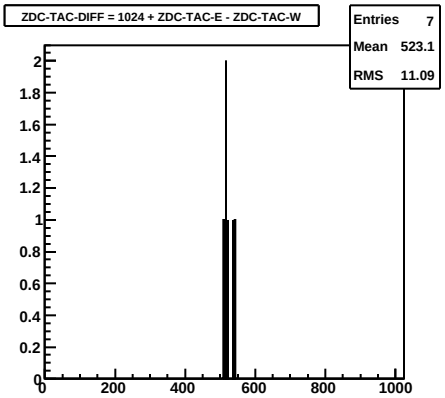

Entries 3142
VPD East ADC Sum
VPD West ADC Sum

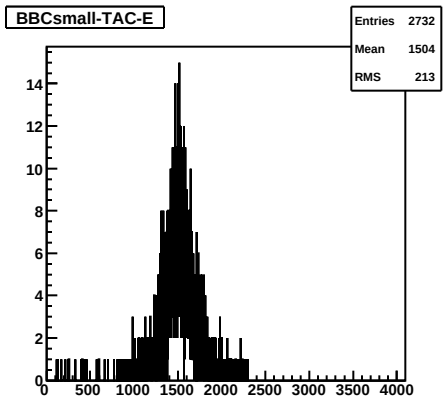

Entries 3142
ZDC East ADC Sum Att
ZDC West ADC Sum Att

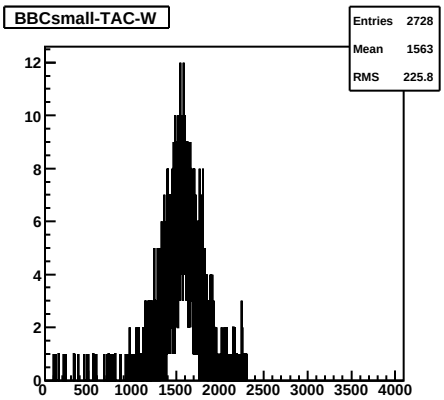

Entries 3142
BBC-L TAC Diff
BCC-S TAC Diff
Entries 3142
BBC-L TAC Diff
VPD TAC Diff
Entries 3142
BBC-L TAC Diff
ZDC TAC Diff
Entries 3142
BBC-S TAC Diff
VPD TAC Diff
Entries 3142
BBC-S TAC Diff
ZDC TAC Diff
Entries 3142
VPD TAC Diff
ZDC TAC Diff

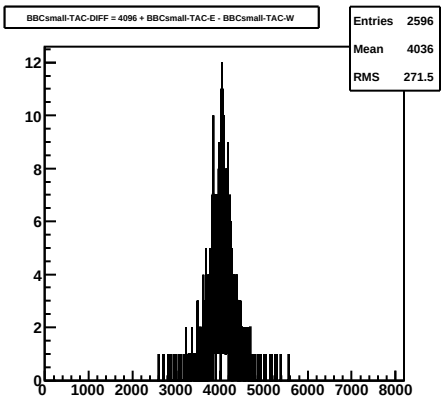

ZDC-TAC-E
Entries 119
Mean 243.1
RMS 28.8

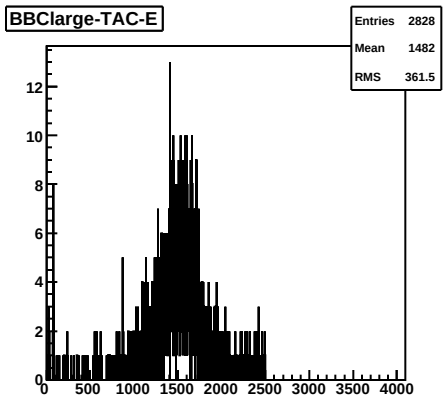

ZDC-TAC-W
Entries 125
Mean 214.9
RMS 31.89

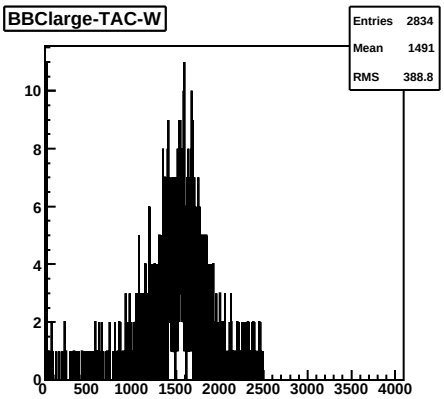

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 7
Mean 523.1
RMS 11.09

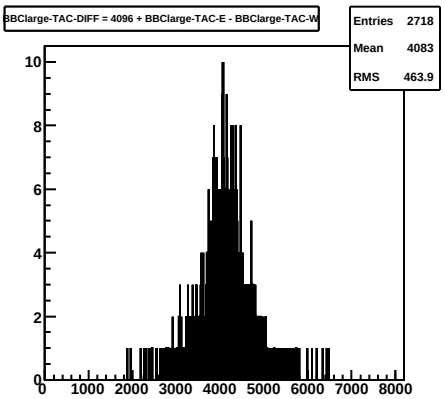

BBCsmall-TAC-E
Entries 2732
Mean 1504
RMS 213

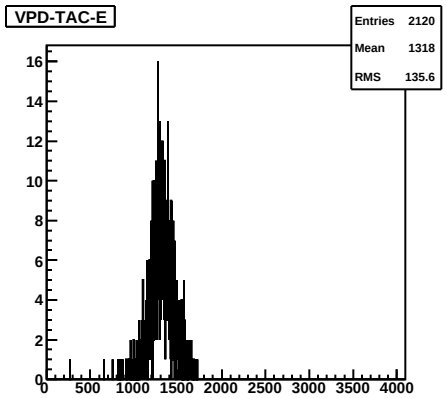

BBCsmall-TAC-W
Entries 2728
Mean 1563
RMS 225.8

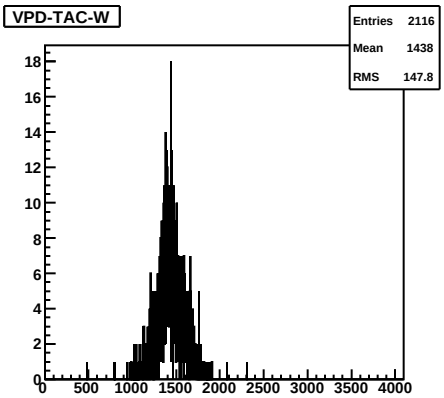

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 2596
Mean 4036
RMS 271.5

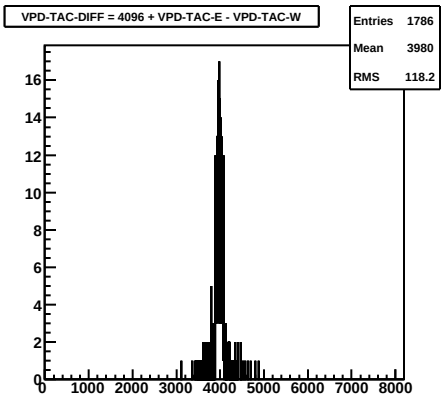

BBClarge-TAC-E
Entries 2828
Mean 1482
RMS 361.5

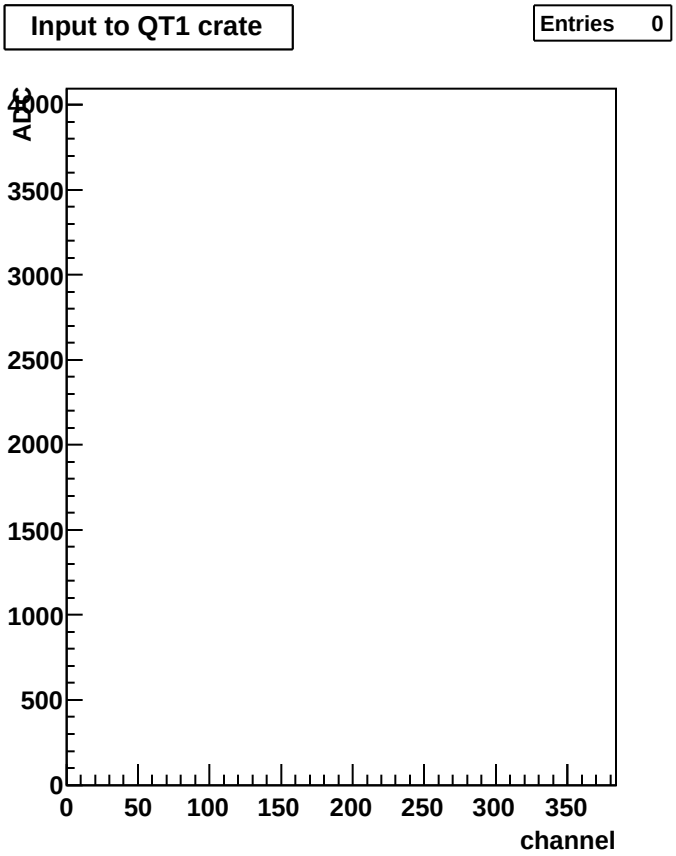

BBClarge-TAC-W
Entries 2834
Mean 1491
RMS 388.8

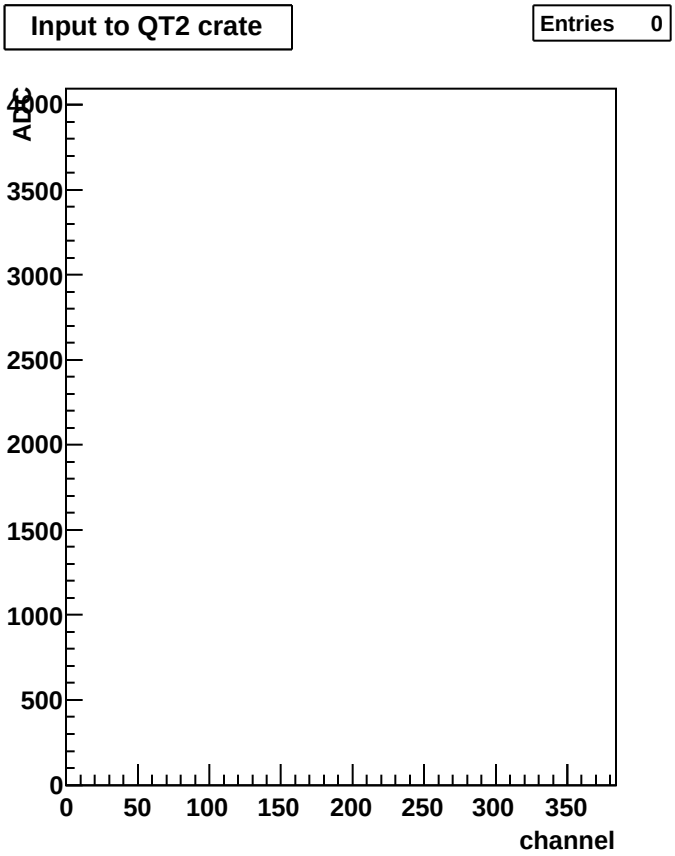

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 2718
Mean 4083
RMS 463.9

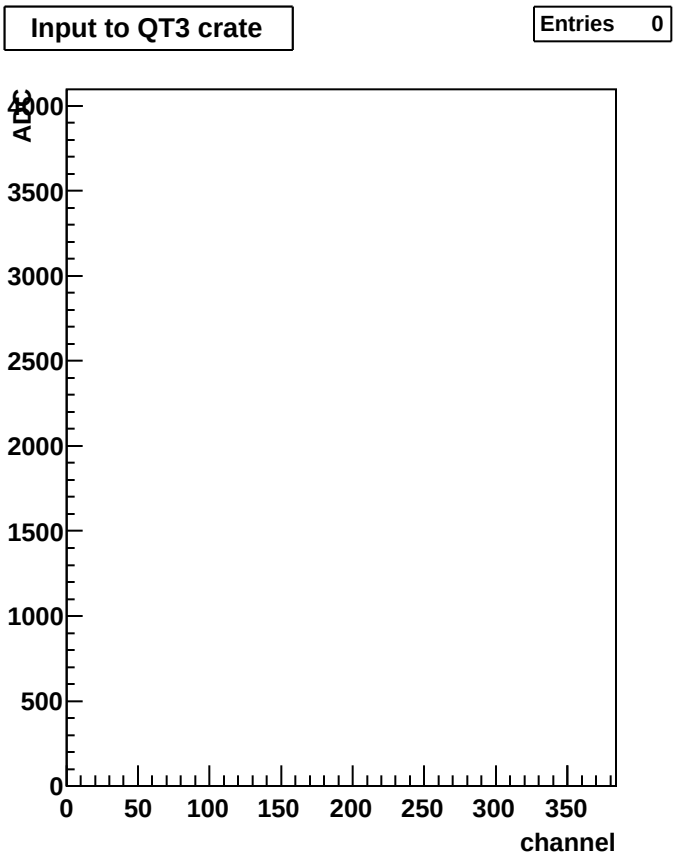

VPD-TAC-E
Entries 2120
Mean 1318
RMS 135.6

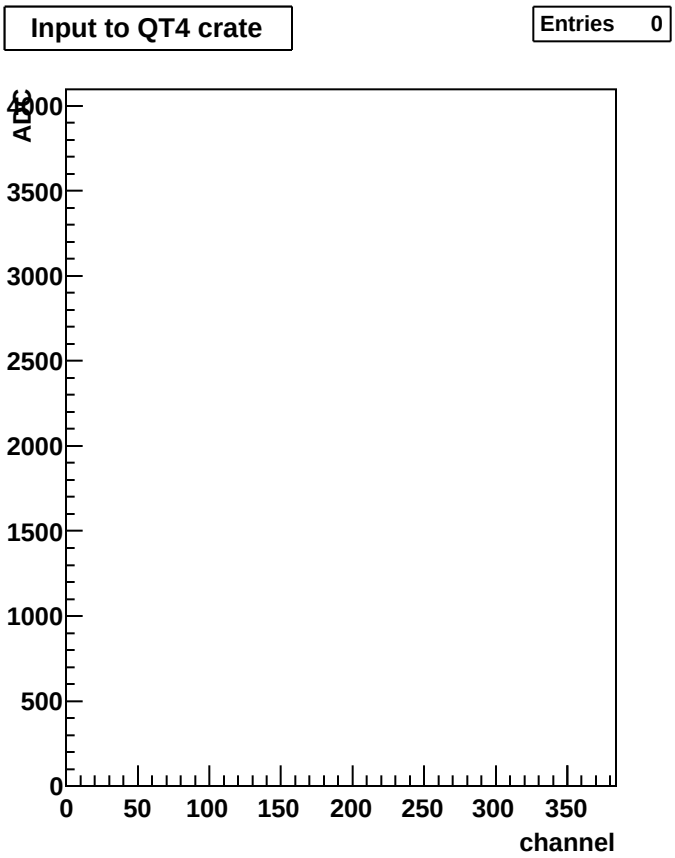

VPD-TAC-W
Entries 2116
Mean 1438
RMS 147.8

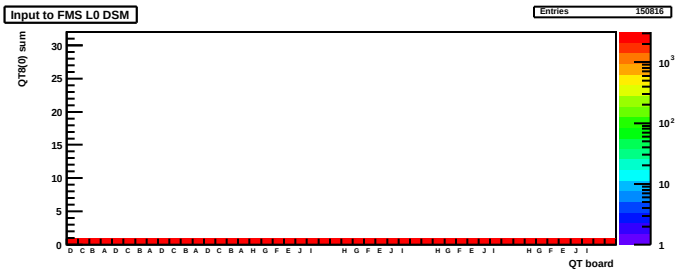

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 1786
Mean 3980
RMS 118.2

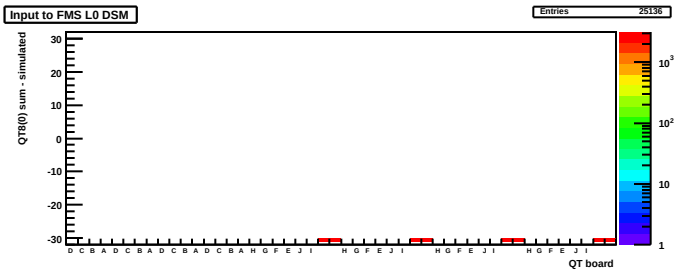

Input to QT1 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

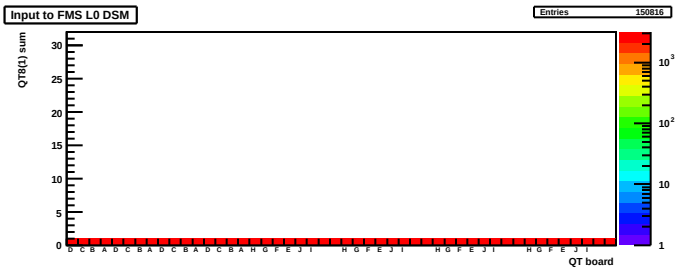

Input to QT2 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

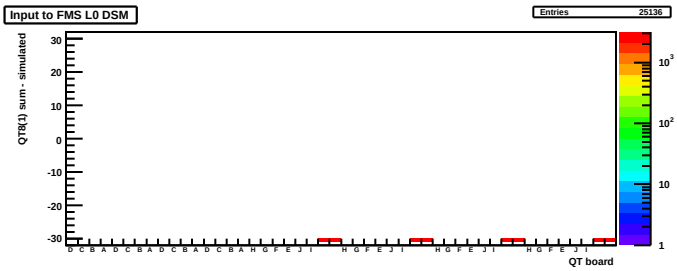

Input to QT3 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

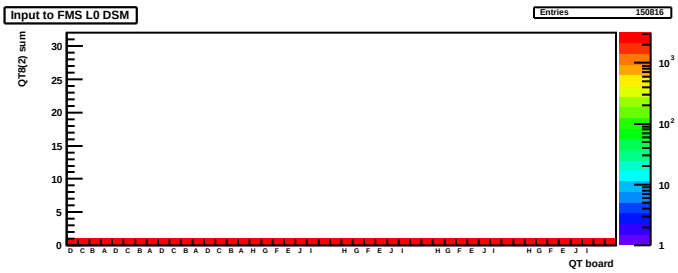

Input to QT4 crate
Entries 0
ADC
4000
3500
3000
2500
2000
1500
1000
500
0
0 50 100 150 200 250 300 350
channel

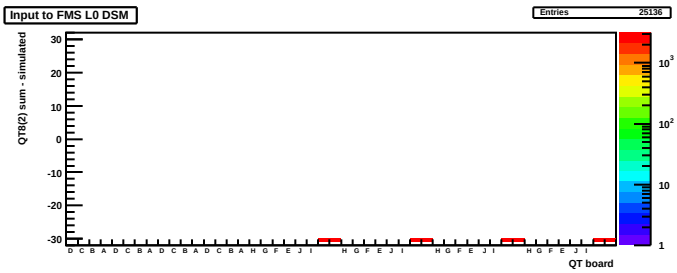

Input to FMS L0 DSM
Entries 150816
QT8(0) sum
QT board

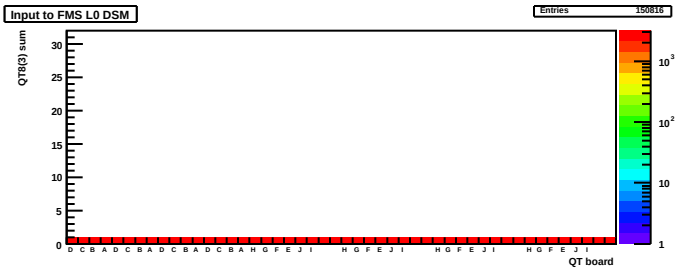

Input to FMS L0 DSM
Entries 25136
QT8(0) sum - simulated
QT board

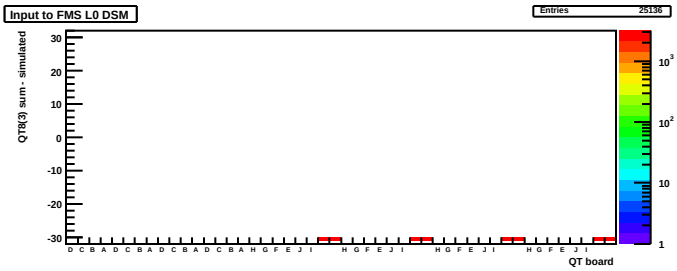

Input to FMS L0 DSM
Entries 150816
QT8(1) sum
QT board

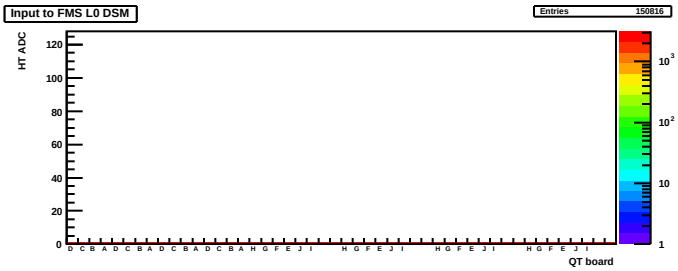

Input to FMS L0 DSM
Entries 25136
QT8(1) sum - simulated
QT board

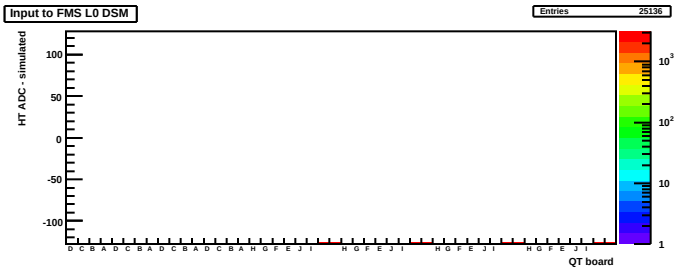

Input to FMS L0 DSM
Entries 150816
QT8(2) sum
QT board

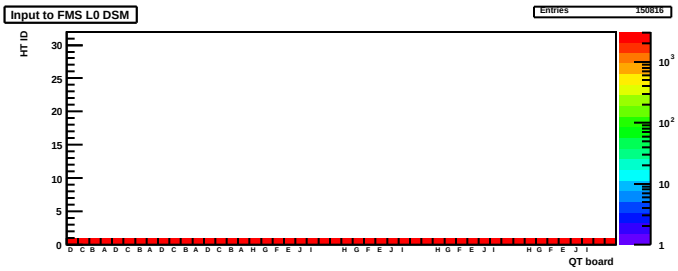

Input to FMS L0 DSM
Entries 25136
QT8(2) sum - simulated
QT board

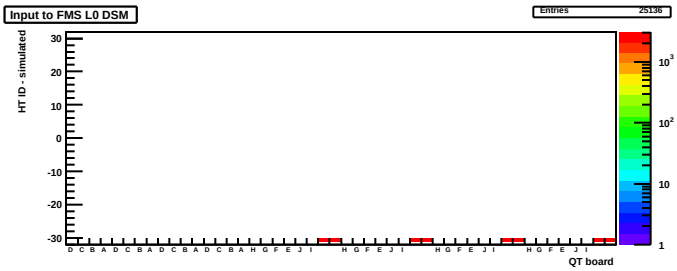

Input to FMS L0 DSM
Entries 150816
QT8(3) sum
QT board

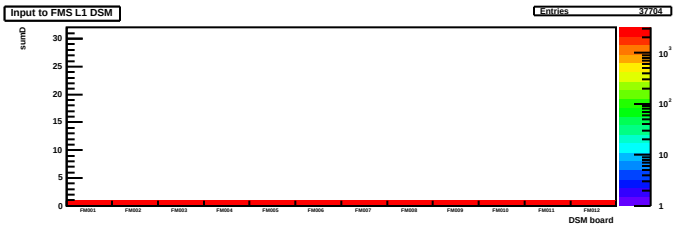

Input to FMS L0 DSM
Entries 25136
QT8(3) sum - simulated
QT board

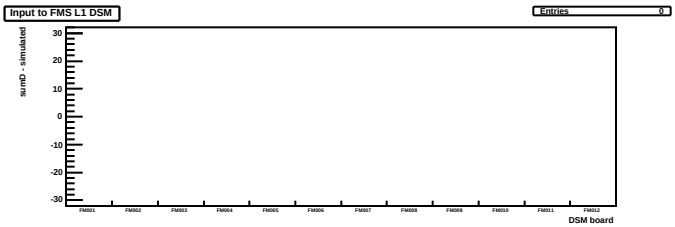

Input to FMS L0 DSM
Entries 150816
HT ADC
QT board

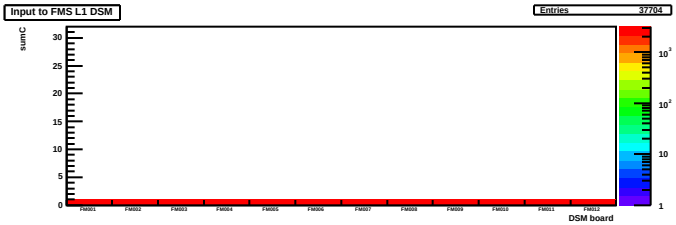

Input to FMS L0 DSM
Entries 25136
HT ADC - simulated
QT board

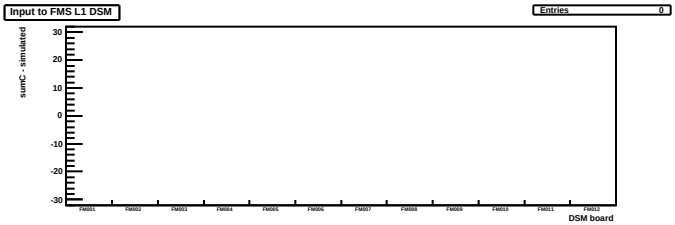

Input to FMS L0 DSM
Entries 150816
HT ID
QT board

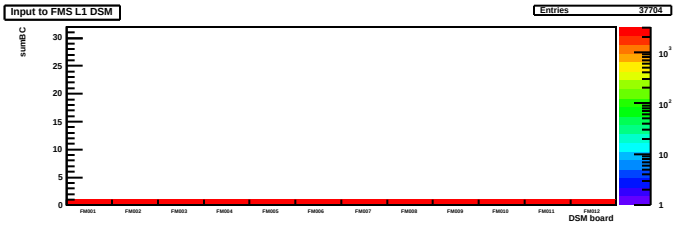

Input to FMS L0 DSM
Entries 25136
HT ID - simulated
QT board

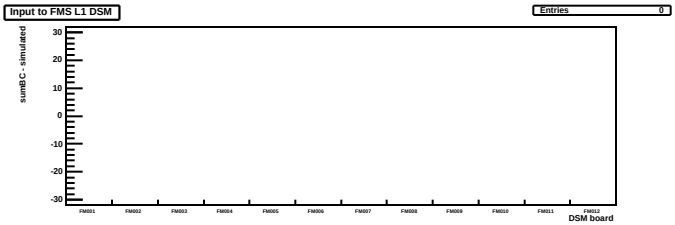

Input to FMS L1 DSM
Entries 37704
sumD
DSM board

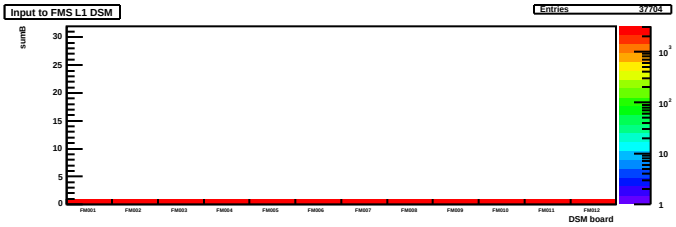

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

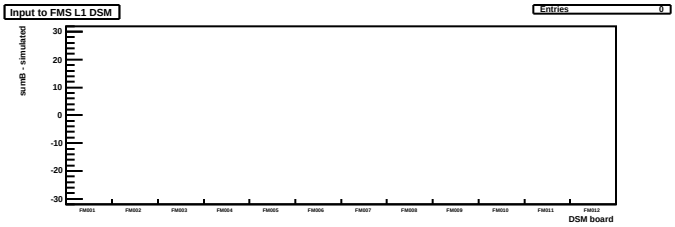

Input to FMS L1 DSM
Entries 37704
sumC
DSM board

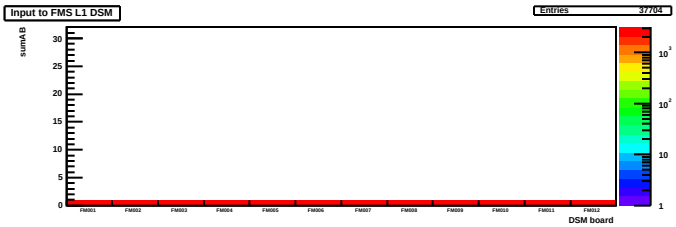

Input to FMS L1 DSM
Entries 0
sumC - simulated
DSM board

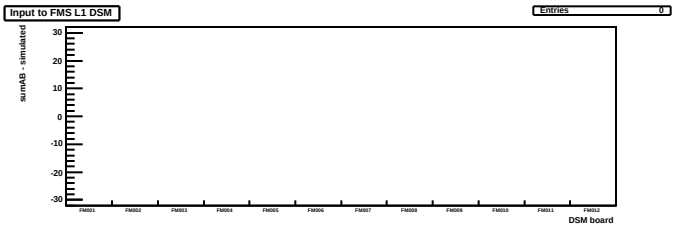

Input to FMS L1 DSM
Entries 37704
sumBC
DSM board

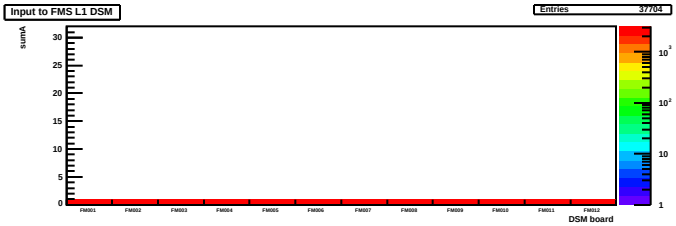

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

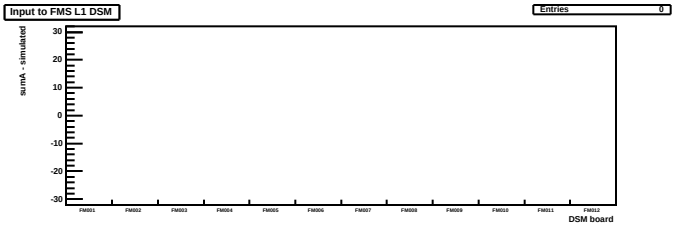

Input to FMS L1 DSM
Entries 37704
sumB
DSM board

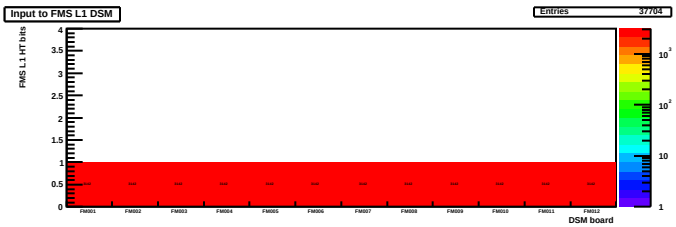

Input to FMS L1 DSM
Entries 0
sumB - simulated
DSM board

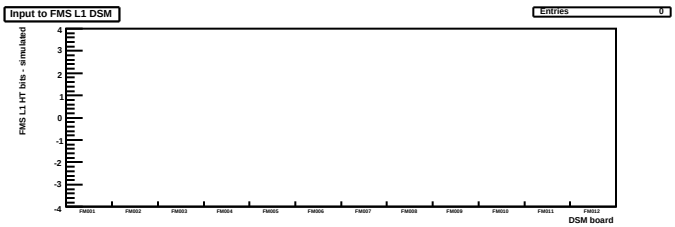

Input to FMS L1 DSM
Entries 37704
sumAB
DSM board

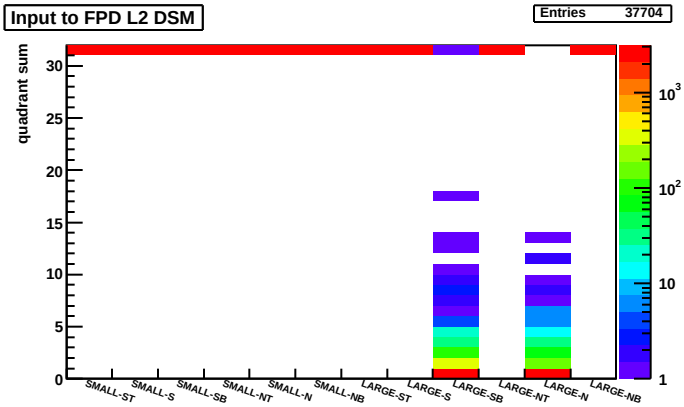

Input to FMS L1 DSM
Entries 0
sumAB - simulated
DSM board

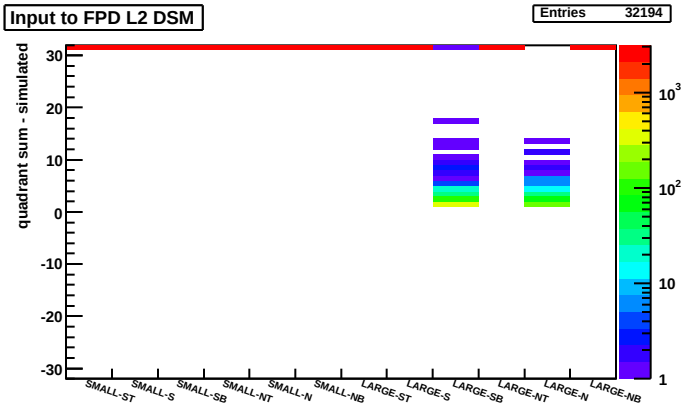

Input to FMS L1 DSM
Entries 37704
sumA
DSM board

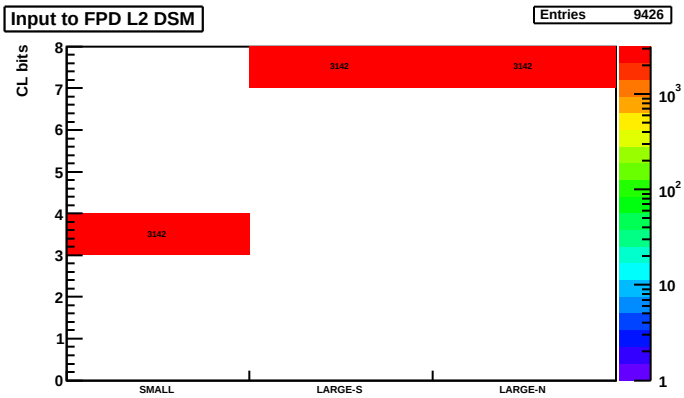

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

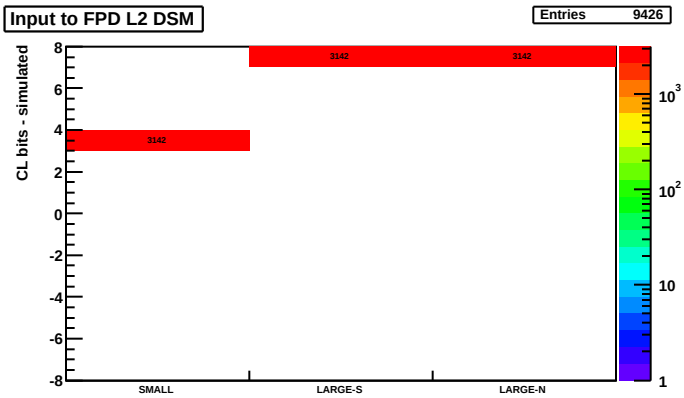

Input to FMS L1 DSM
Entries 37704
FMS L1 HT bits
DSM board

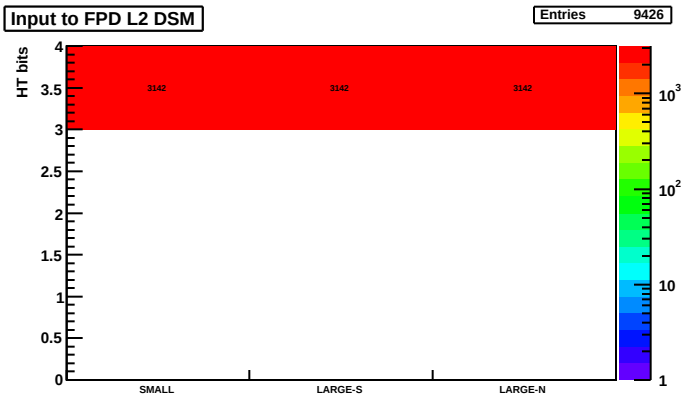

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

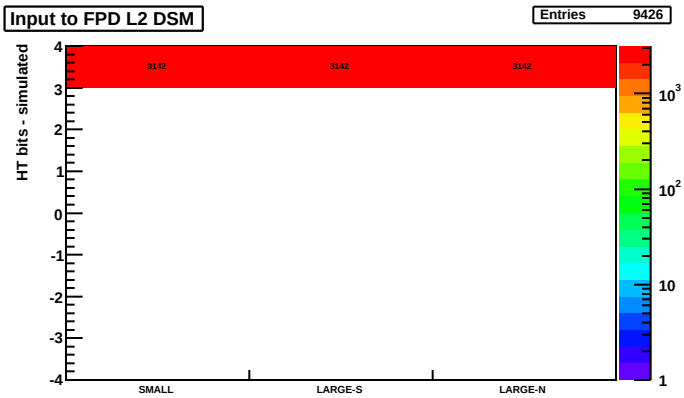

Input to FPD L2 DSM
Entries 37704
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

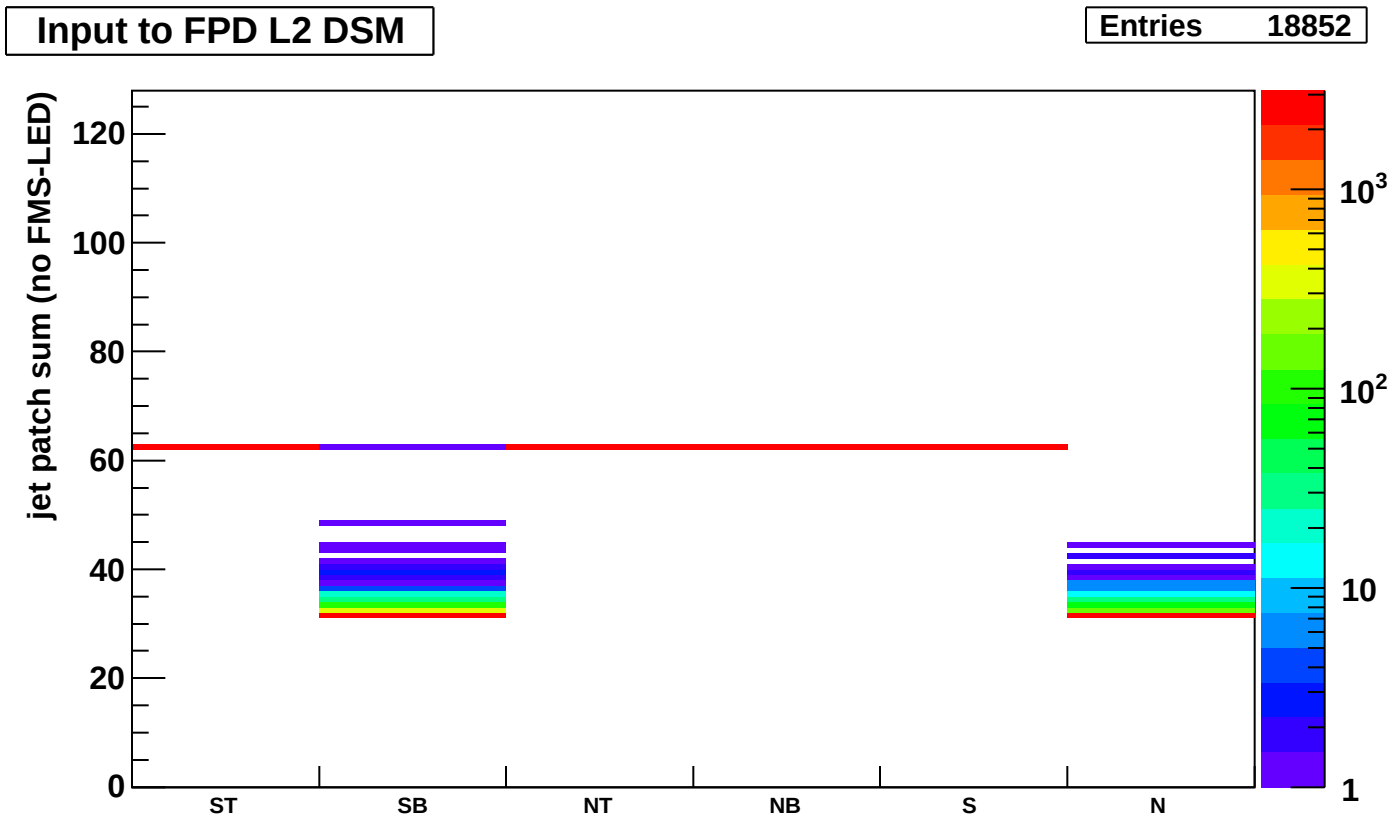

Input to FPD L2 DSM
Entries 32194
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

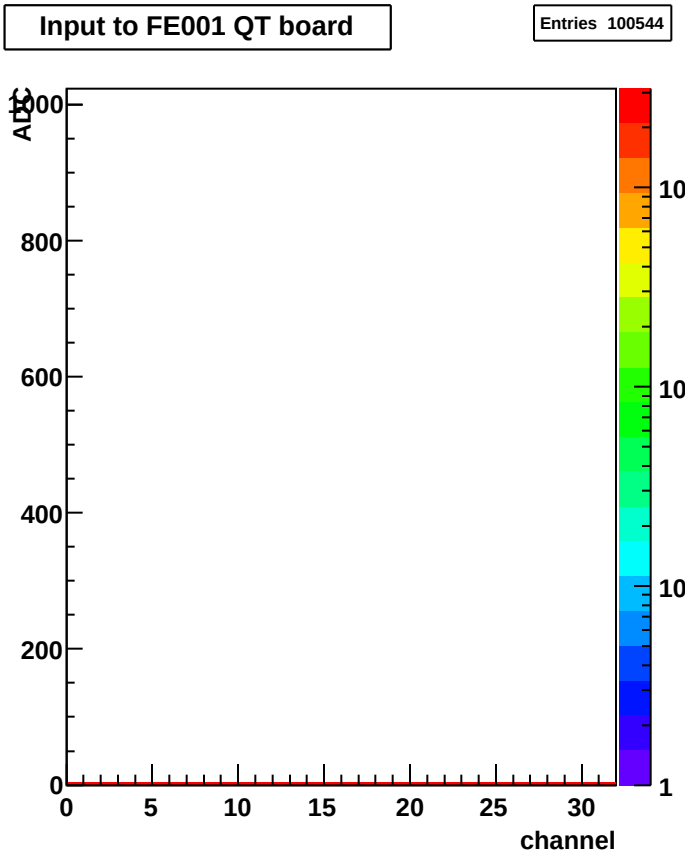

Input to FPD L2 DSM
Entries 9426
CL bits
3142
3142
3142
SMALL
LARGE-S
LARGE-N

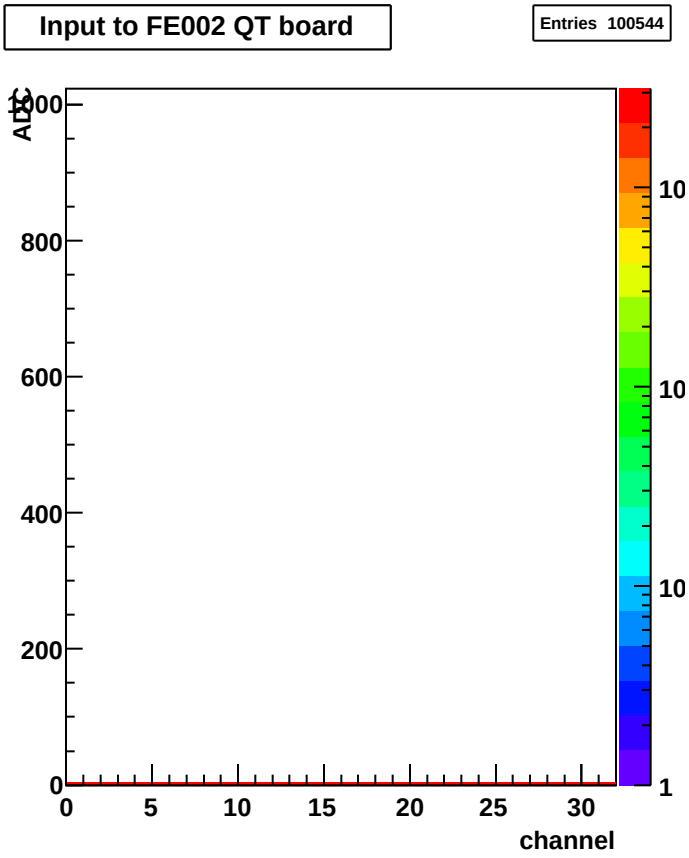

Input to FPD L2 DSM
Entries 9426
CL bits - simulated
3142
3142
3142
SMALL
LARGE-S
LARGE-N

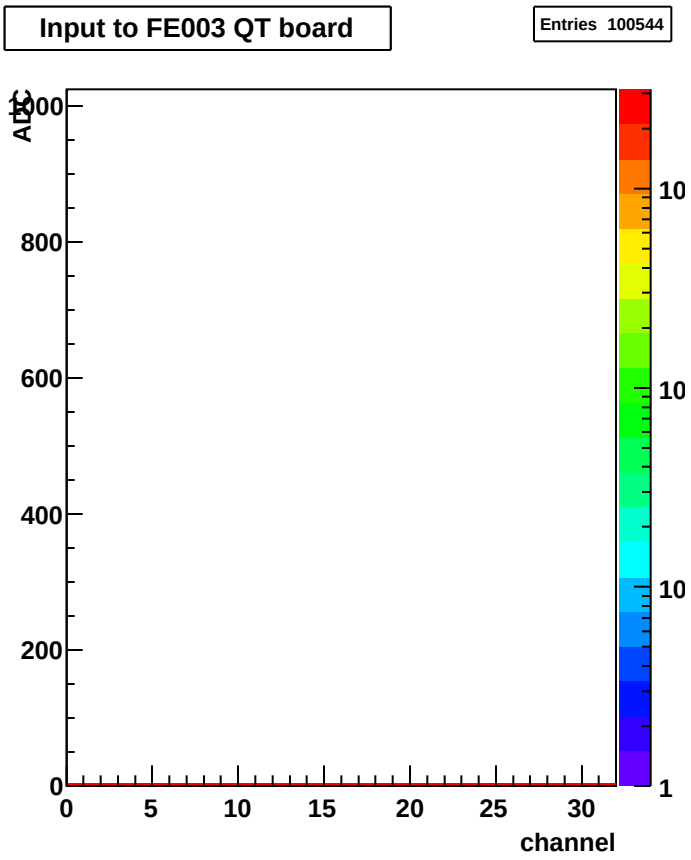

Input to FPD L2 DSM
Entries 9426
HT bits
3142
3142
3142
SMALL
LARGE-S
LARGE-N

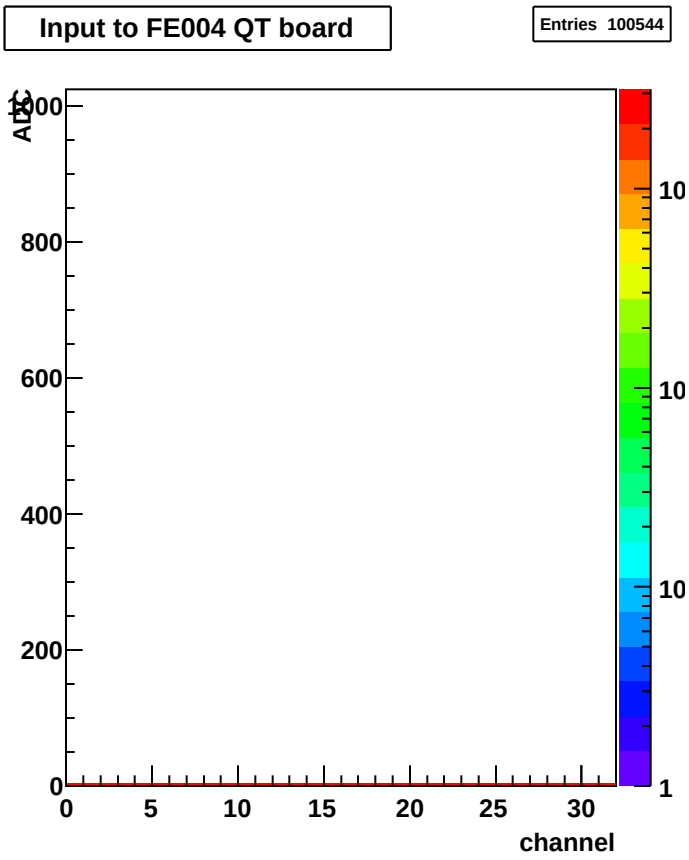

Input to FPD L2 DSM
Entries 9426
HT bits - simulated
3142
3142
3142
SMALL
LARGE-S
LARGE-N

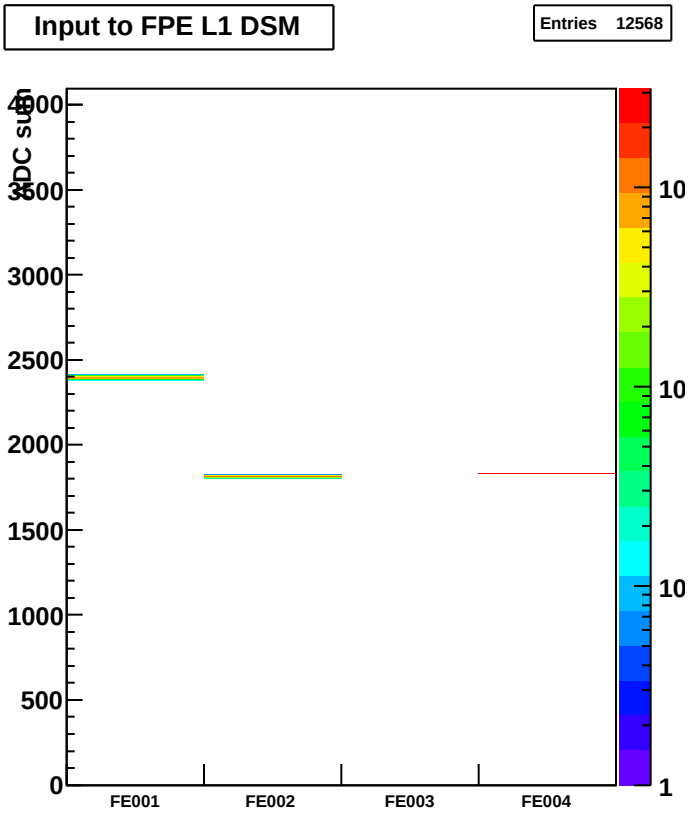

Input to FPD L2 DSM
Entries 18852
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3

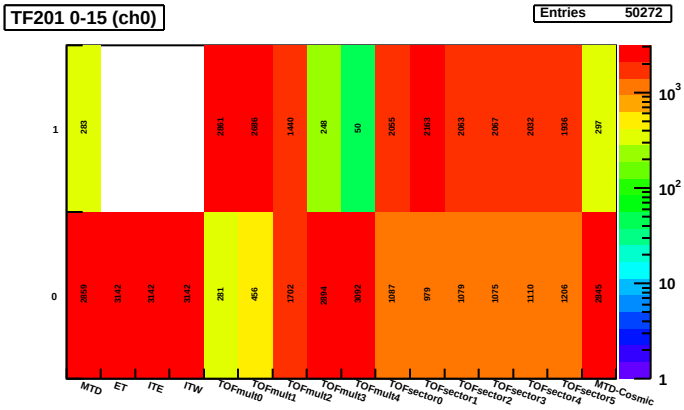

Input to FE001 QT board
Entries 100544
ADC
1000
800
600
400
200
0
0
5
10
15
20
25
30
channel
10
10
10
1

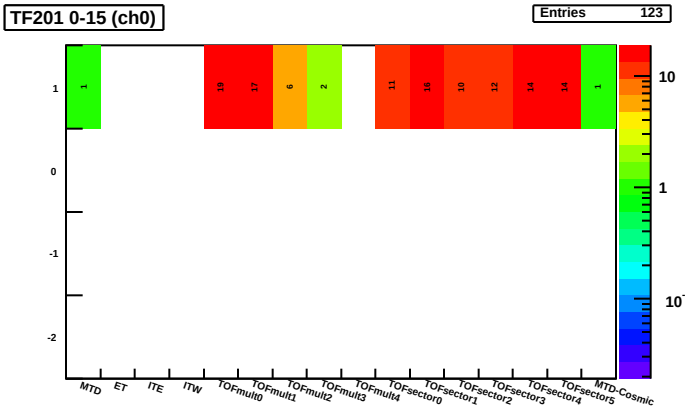

Input to FE002 QT board
Entries 100544
ADC
1000
800
600
400
200
0
0
5
10
15
20
25
30
channel
10
10
10
1

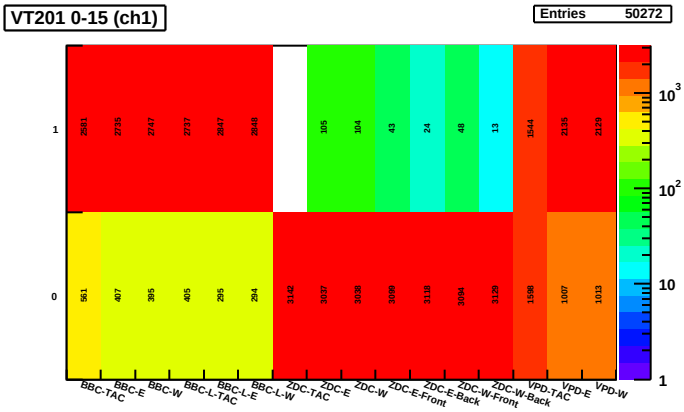

Input to FE003 QT board
Entries 100544
ADC
1000
800
600
400
200
0
0
5
10
15
20
25
30
channel
10
10
10
1

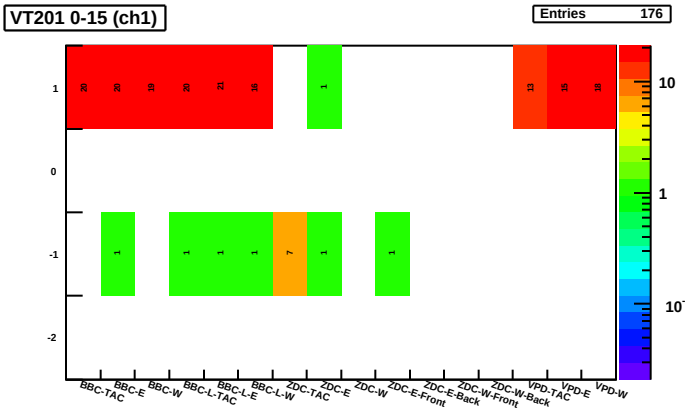

Input to FE004 QT board
Entries 100544
ADC
1000
800
600
400
200
0
0
5
10
15
20
25
30
channel
10
10
10
1

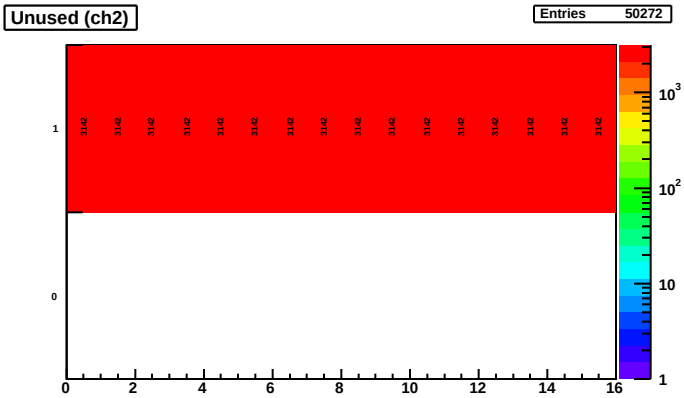

Input to FPE L1 DSM
Entries 12568
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
1

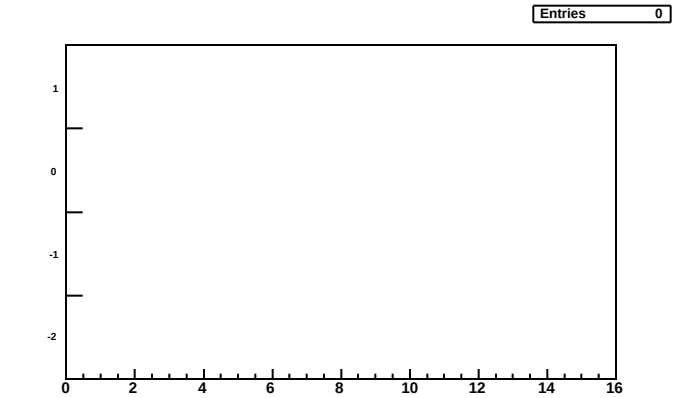

TF201 0-15 (ch0)
Entries 50272
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

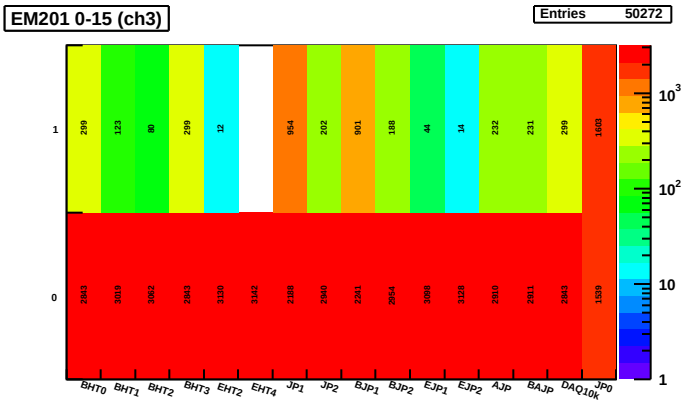

TF201 0-15 (ch0)
Entries 123
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

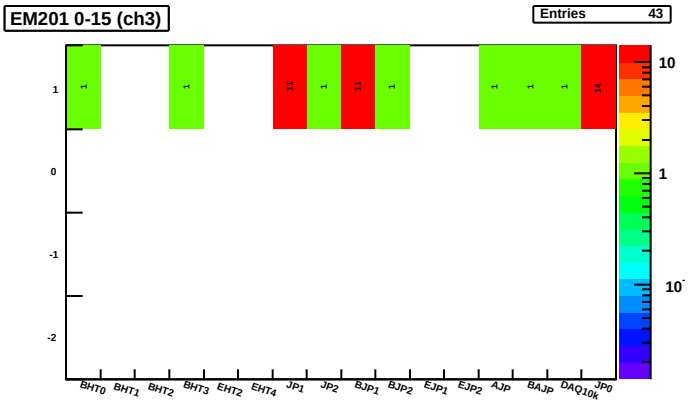

VT201 0-15 (ch1)
Entries 50272
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 176
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

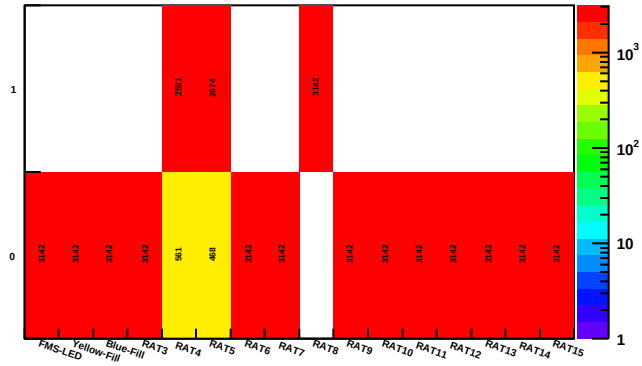

Unused (ch2)
Entries 50272

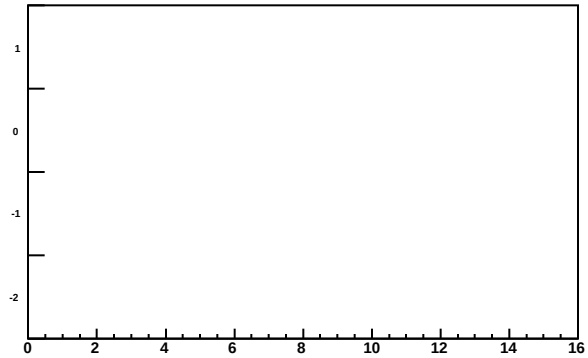

Entries 0


EM201 0-15 (ch3)
Entries 50272
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

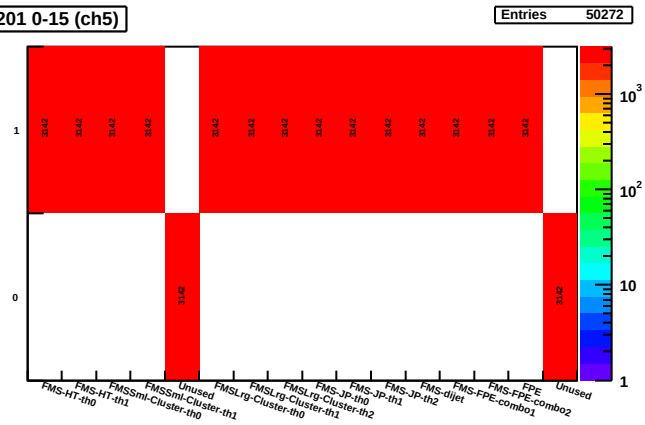

EM201 0-15 (ch3)
Entries 43
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

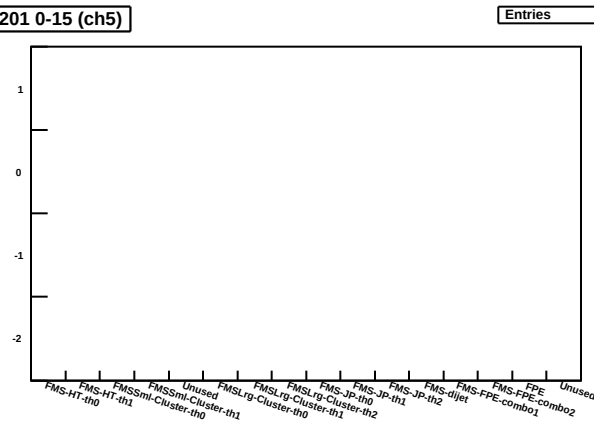




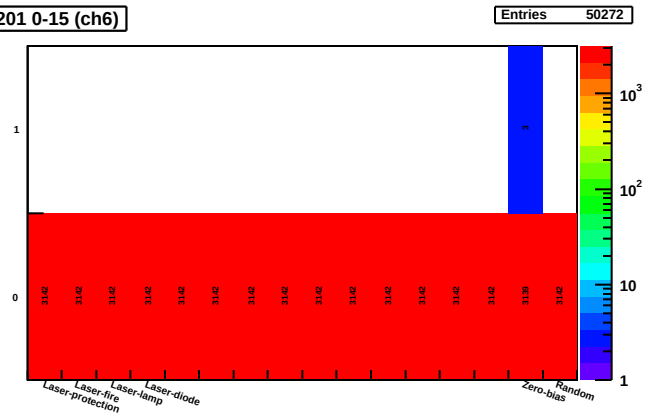
FP201 0-15 (ch5)

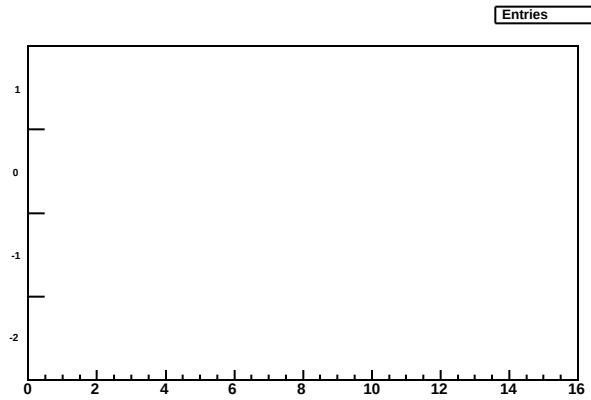
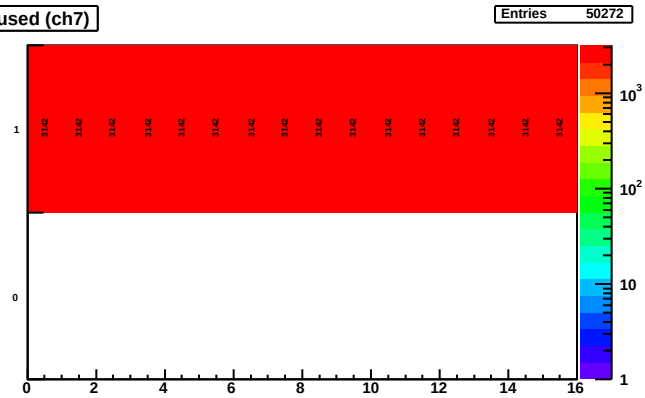
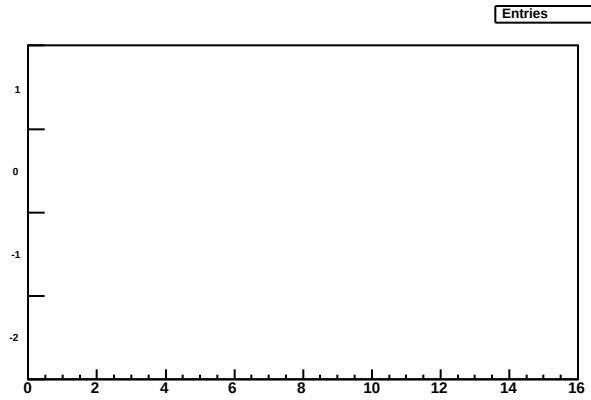


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)