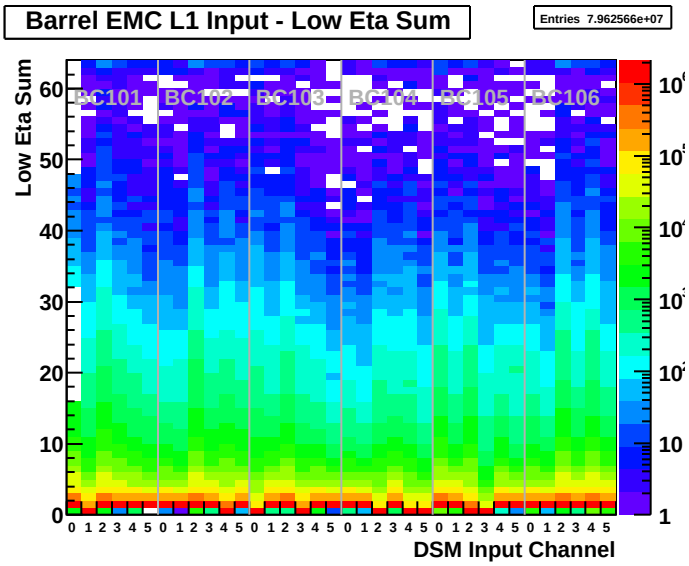
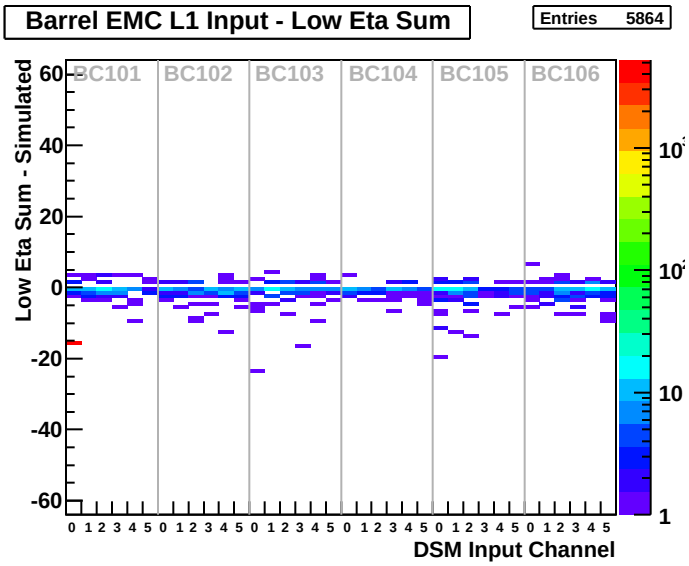
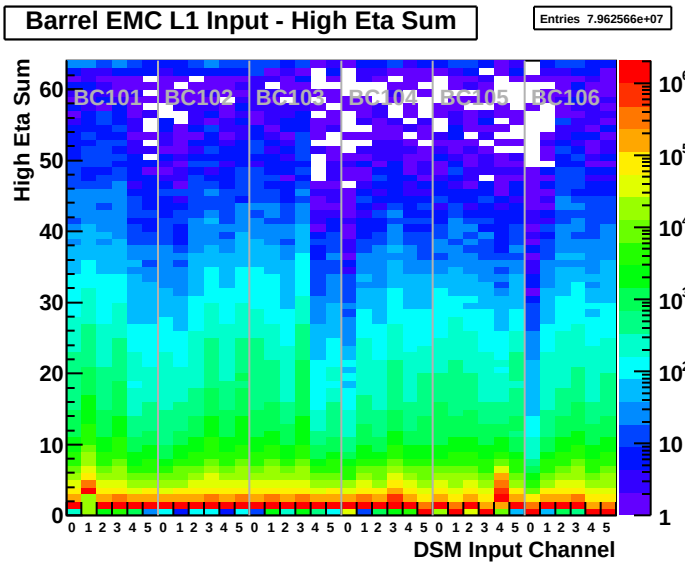
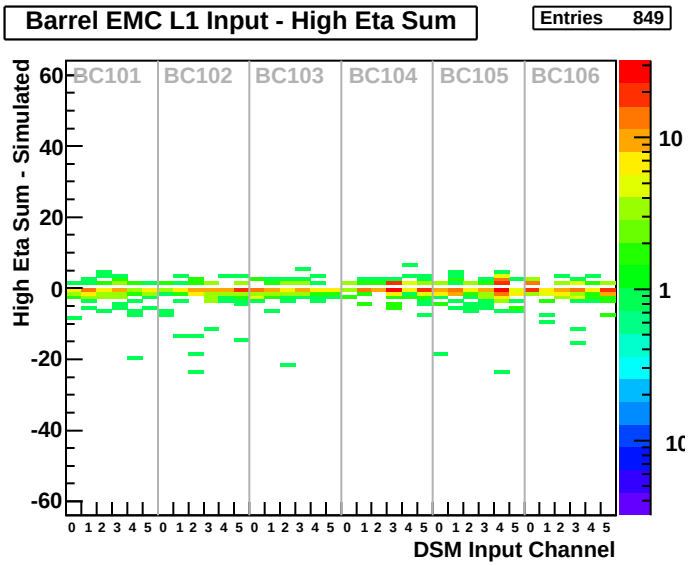
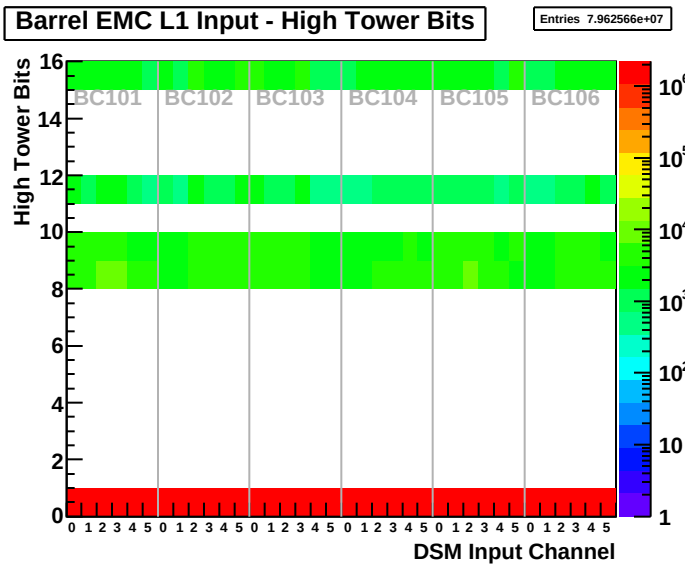
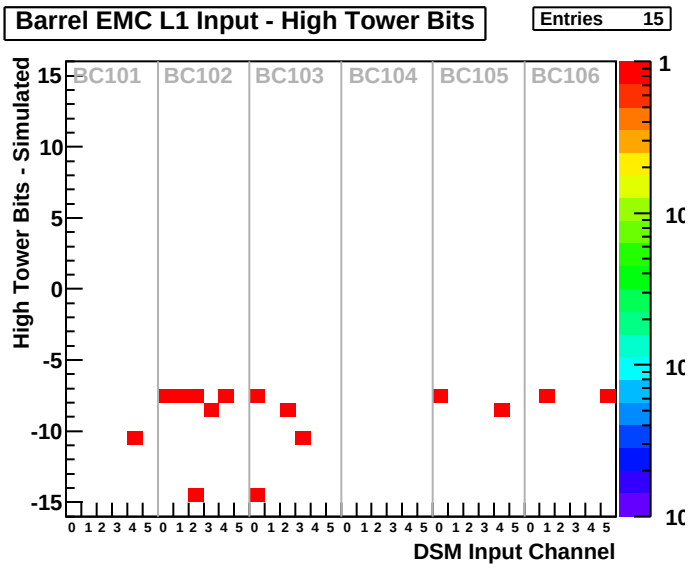

Barrel EMC L1 Input - Low Eta Sum
Entries 7.962566e+07
Low Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

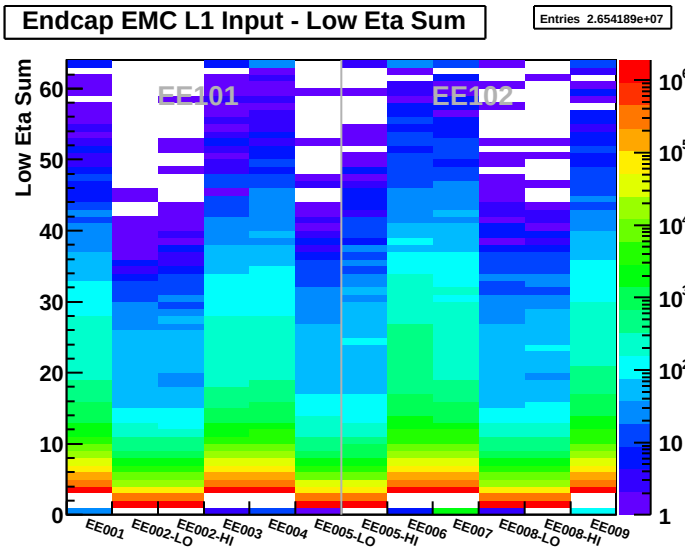

Barrel EMC L1 Input - Low Eta Sum
Entries 5864
Low Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

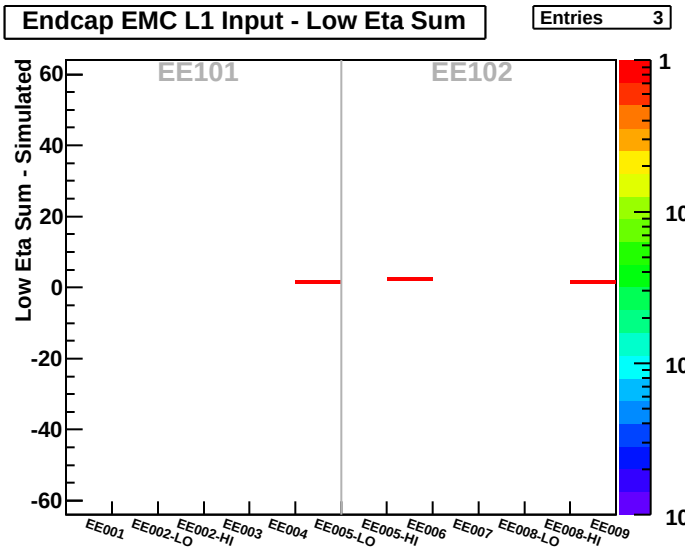

Barrel EMC L1 Input - High Eta Sum
Entries 7.962566e+07
High Eta Sum
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

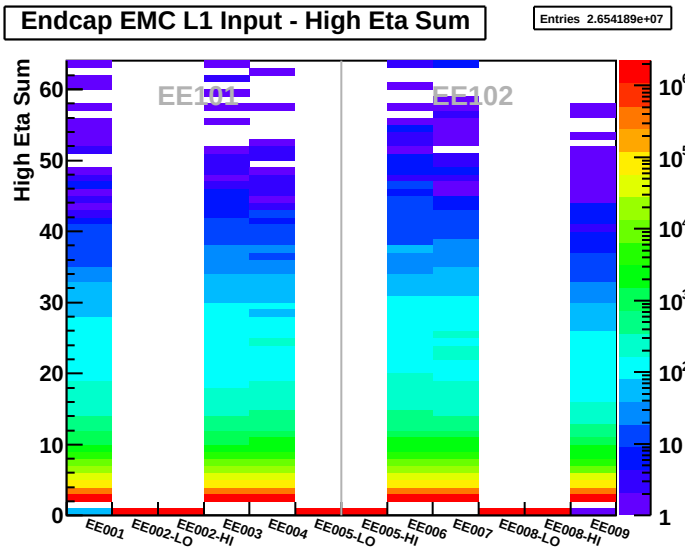

Barrel EMC L1 Input - High Eta Sum
Entries 849
High Eta Sum - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

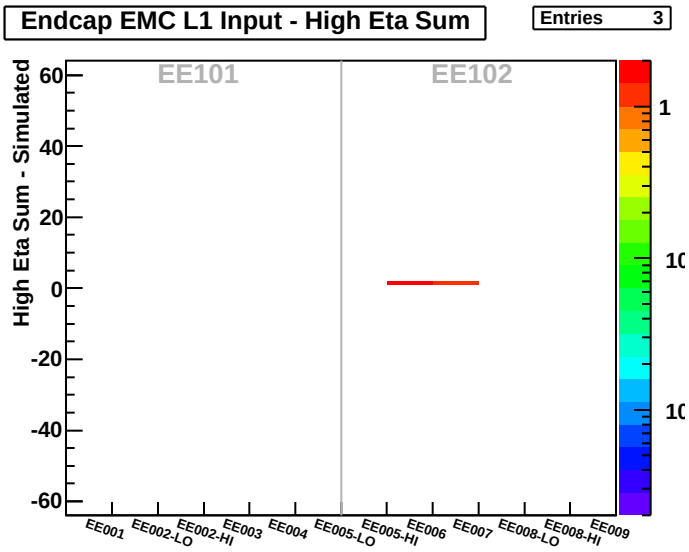

Barrel EMC L1 Input - High Tower Bits
Entries 7.962566e+07
High Tower Bits
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

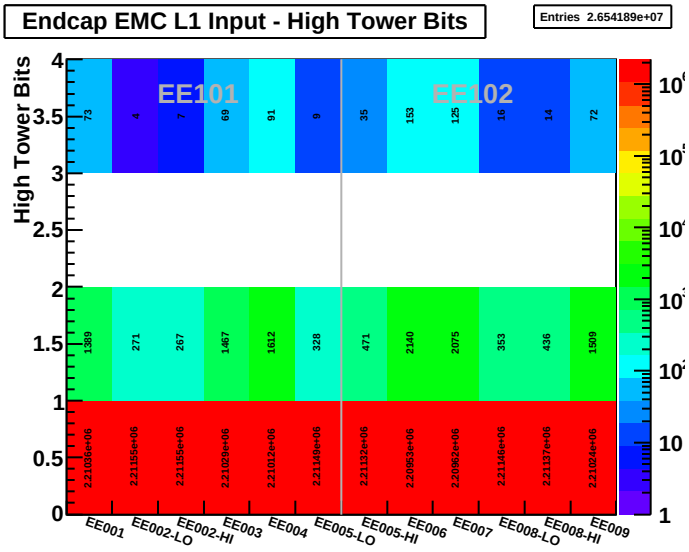

Barrel EMC L1 Input - High Tower Bits
Entries 15
High Tower Bits - Simulated
BC101 BC102 BC103 BC104 BC105 BC106
DSM Input Channel

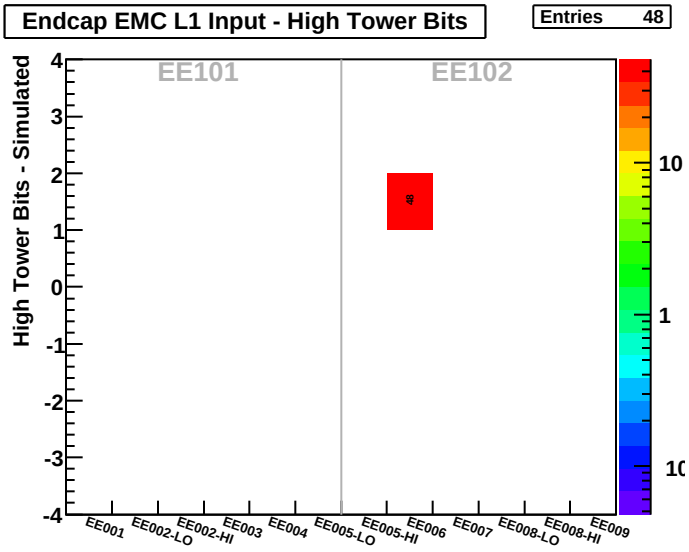

Endcap EMC L1 Input - Low Eta Sum
Entries 2.654189e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

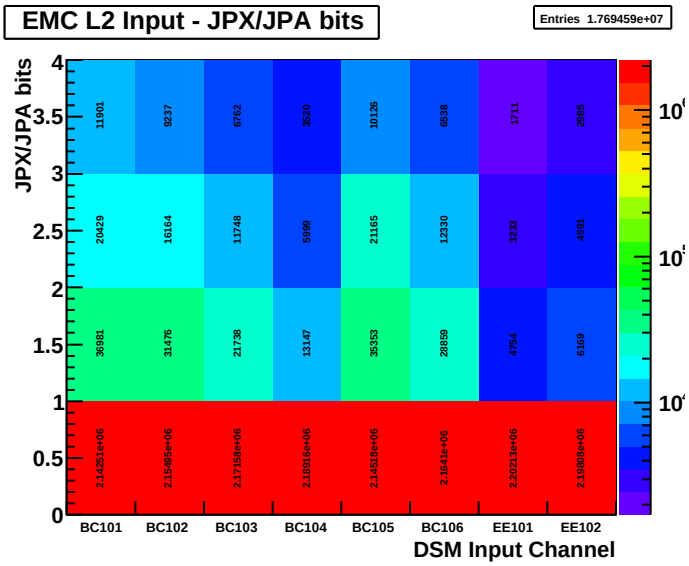

Endcap EMC L1 Input - Low Eta Sum
Entries 3
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

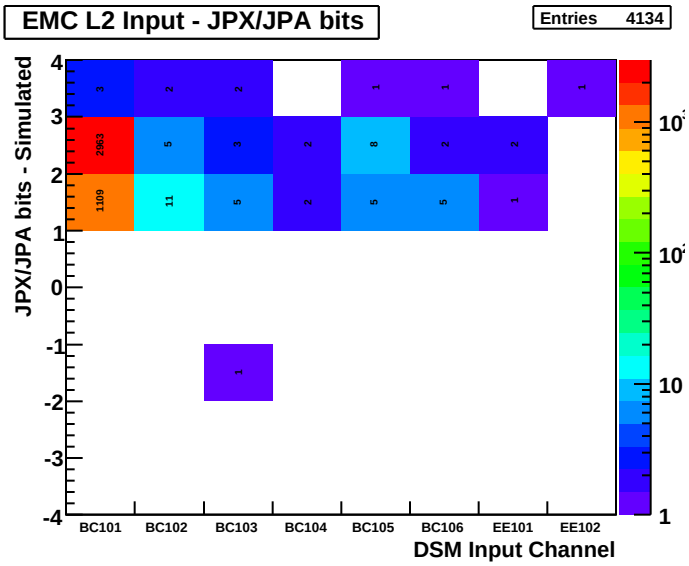

Endcap EMC L1 Input - High Eta Sum
Entries 2.654189e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

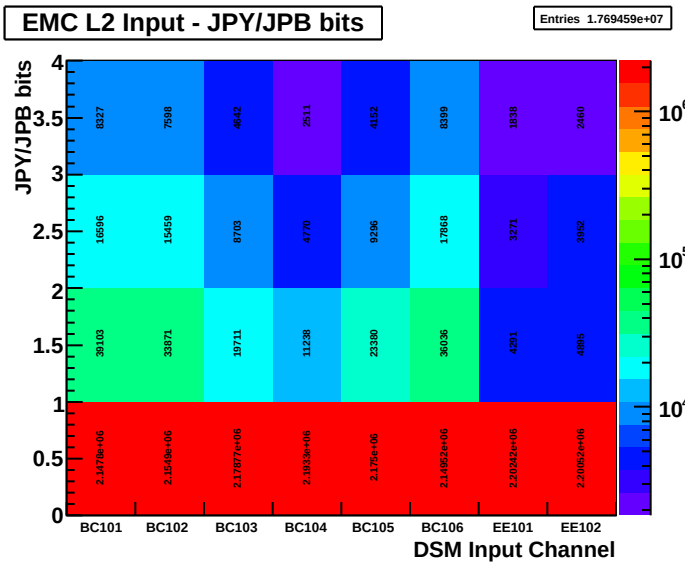

Endcap EMC L1 Input - High Eta Sum
Entries 3
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

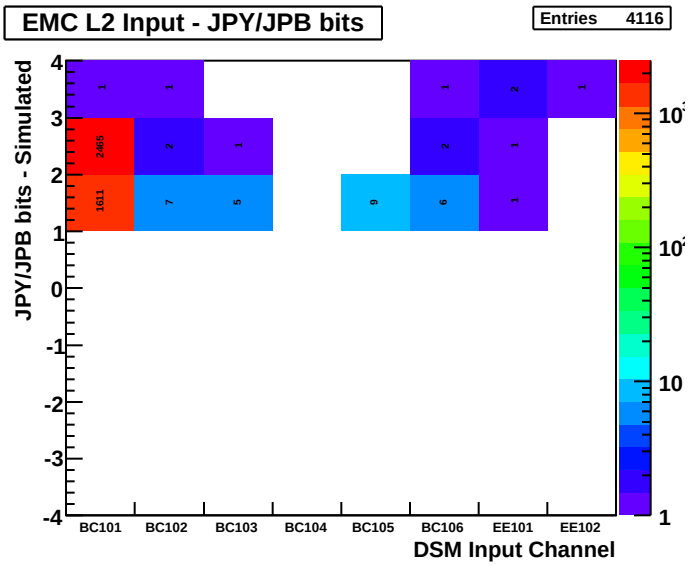

Endcap EMC L1 Input - High Tower Bits
Entries 2.654189e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

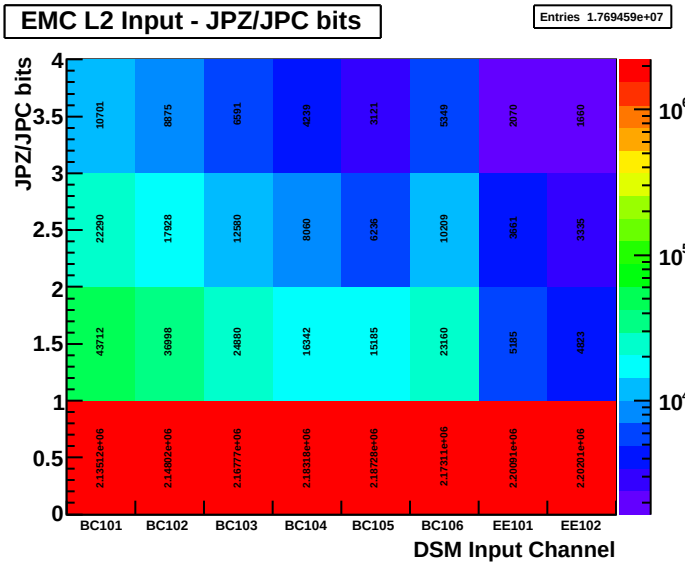

Endcap EMC L1 Input - High Tower Bits
Entries 48
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

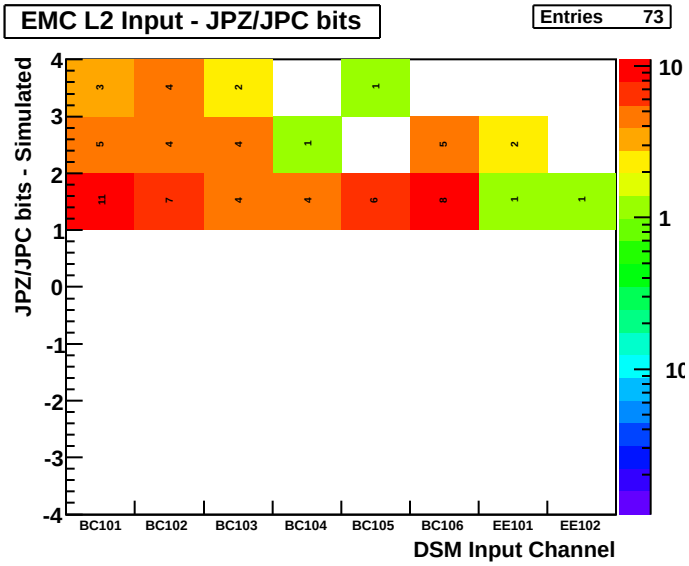

EMC L2 Input - JPX/JPA bits
Entries 1.769459e+07
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

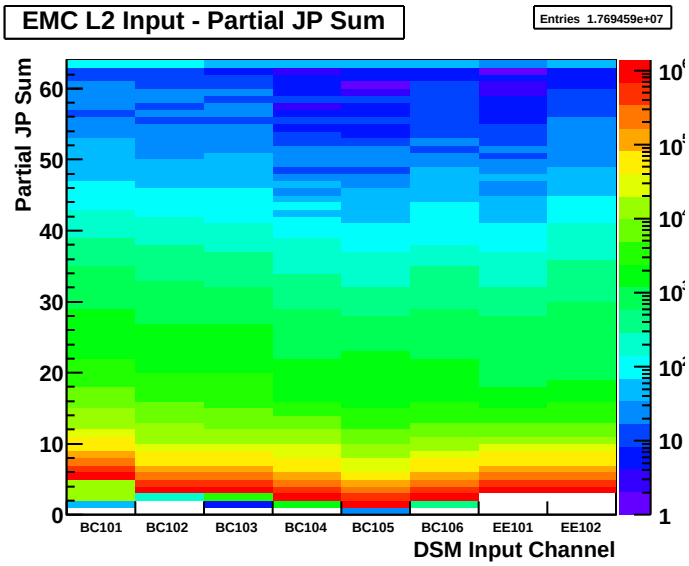

EMC L2 Input - JPX/JPA bits
Entries 4134
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

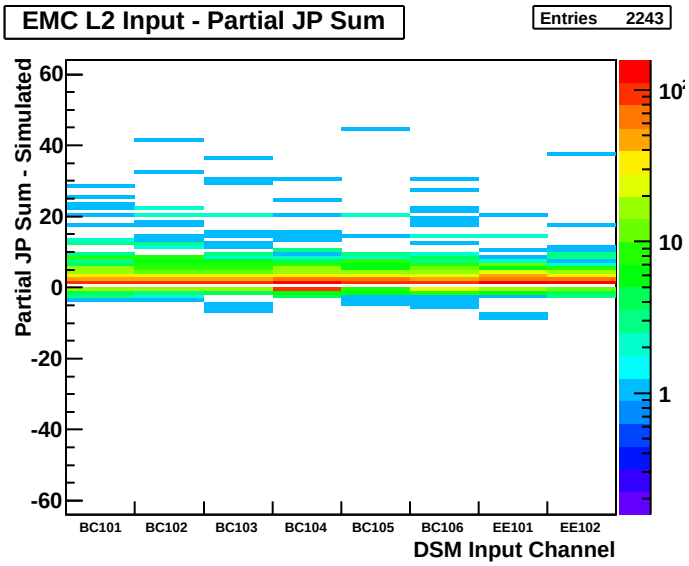

EMC L2 Input - JPY/JPB bits
Entries 1.769459e+07
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

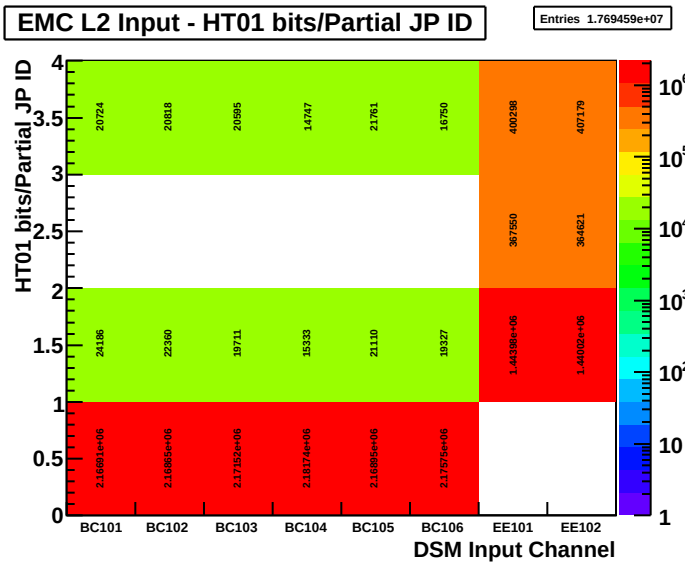

EMC L2 Input - JPY/JPB bits
Entries 4116
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

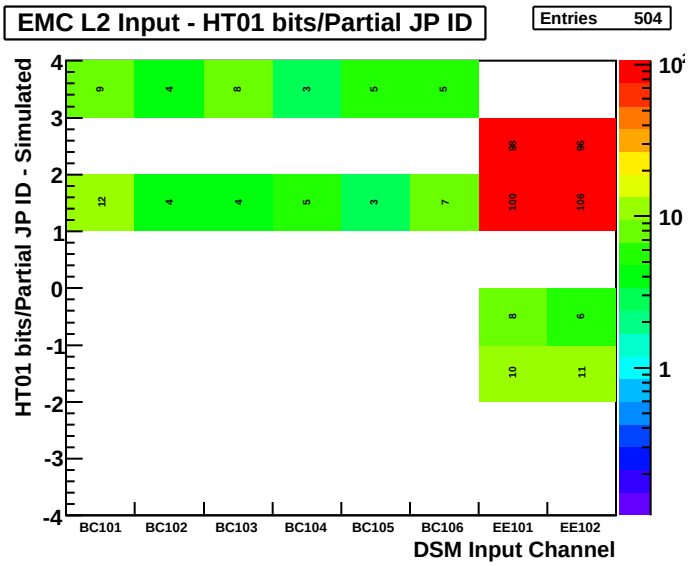

EMC L2 Input - JPZ/JPC bits
Entries 1.769459e+07
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

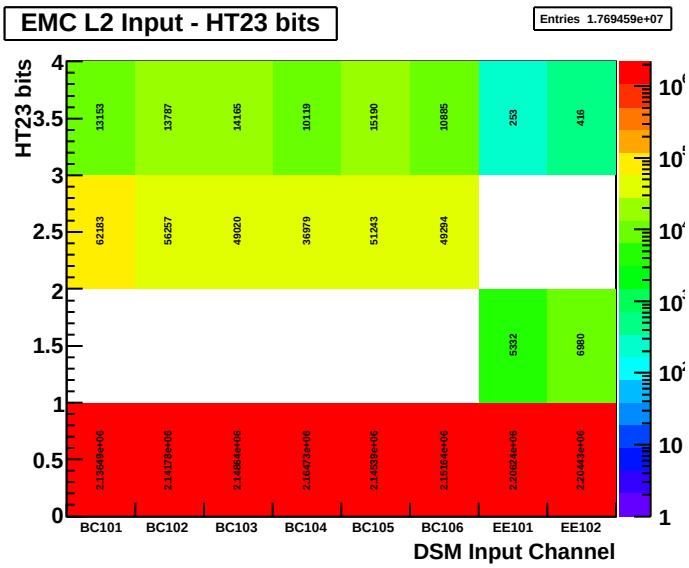

EMC L2 Input - JPZ/JPC bits
Entries 73
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

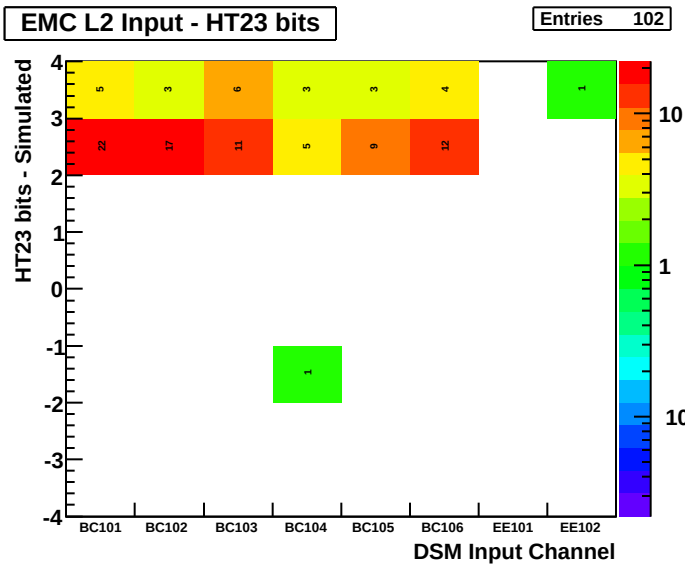

EMC L2 Input - Partial JP Sum
Entries 1.769459e+07
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

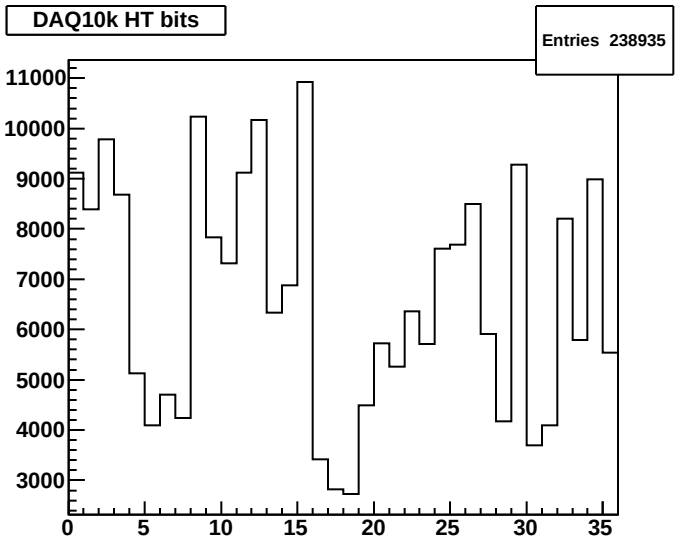

EMC L2 Input - Partial JP Sum
Entries 2243
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

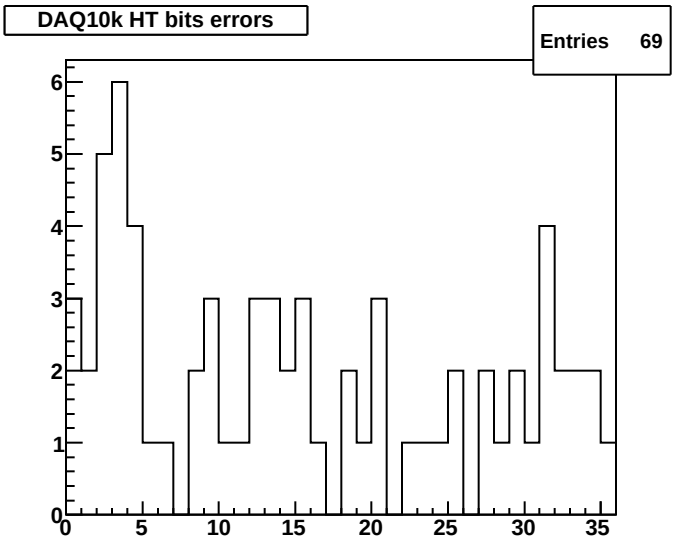

EMC L2 Input - HT01 bits/Partial JP ID
Entries 1.769459e+07
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

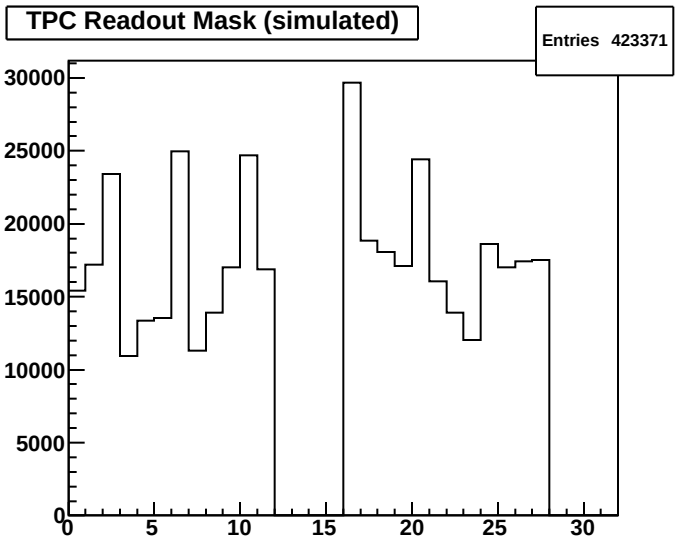

EMC L2 Input - HT01 bits/Partial JP ID
Entries 504
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

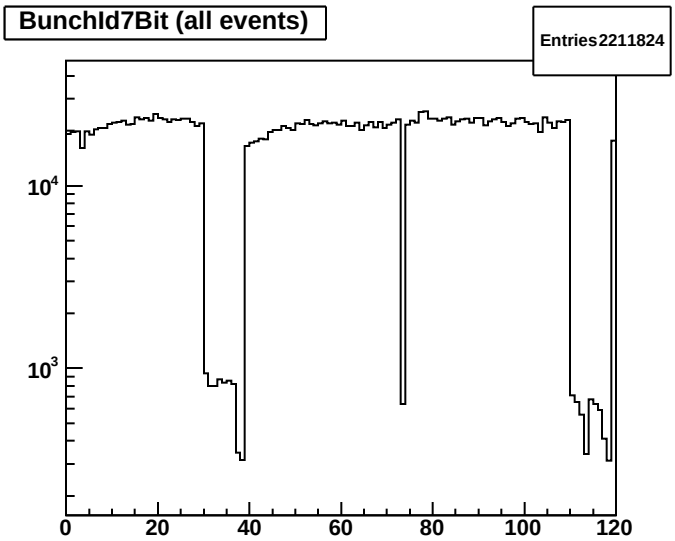

EMC L2 Input - HT23 bits
Entries 1.769459e+07
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

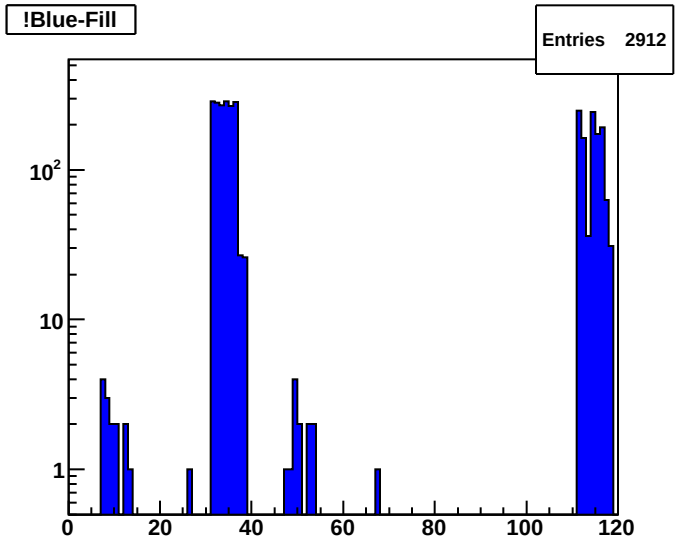

EMC L2 Input - HT23 bits
Entries 102
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

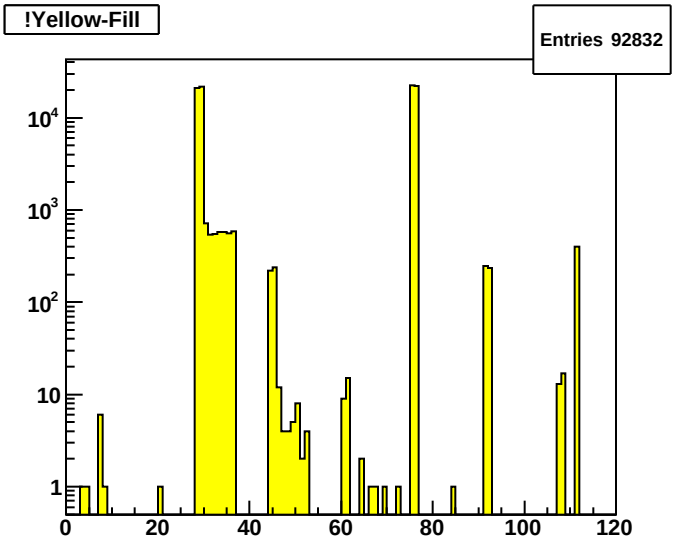

DAQ10k HT bits
Entries 238935

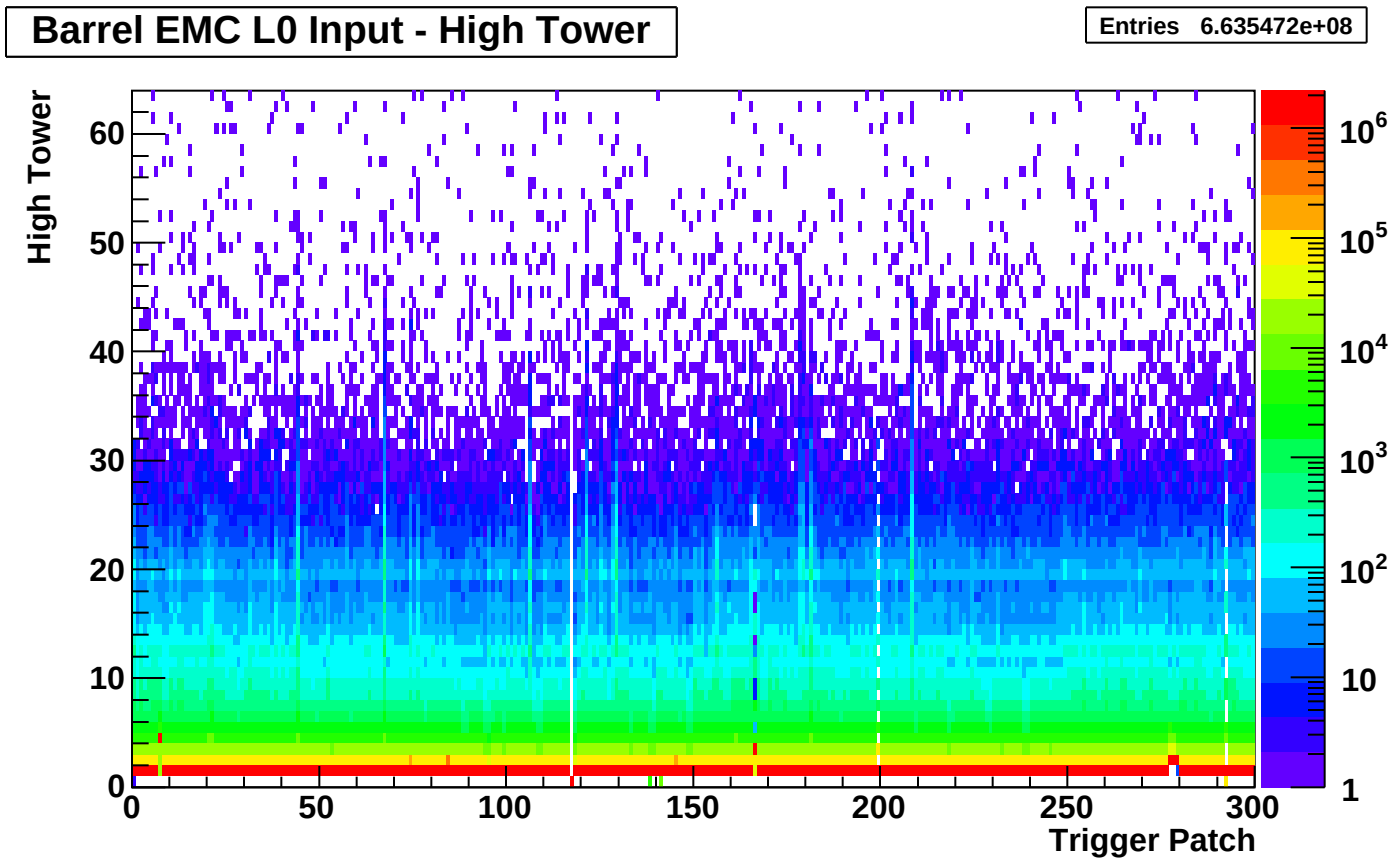

DAQ10k HT bits errors
Entries 69

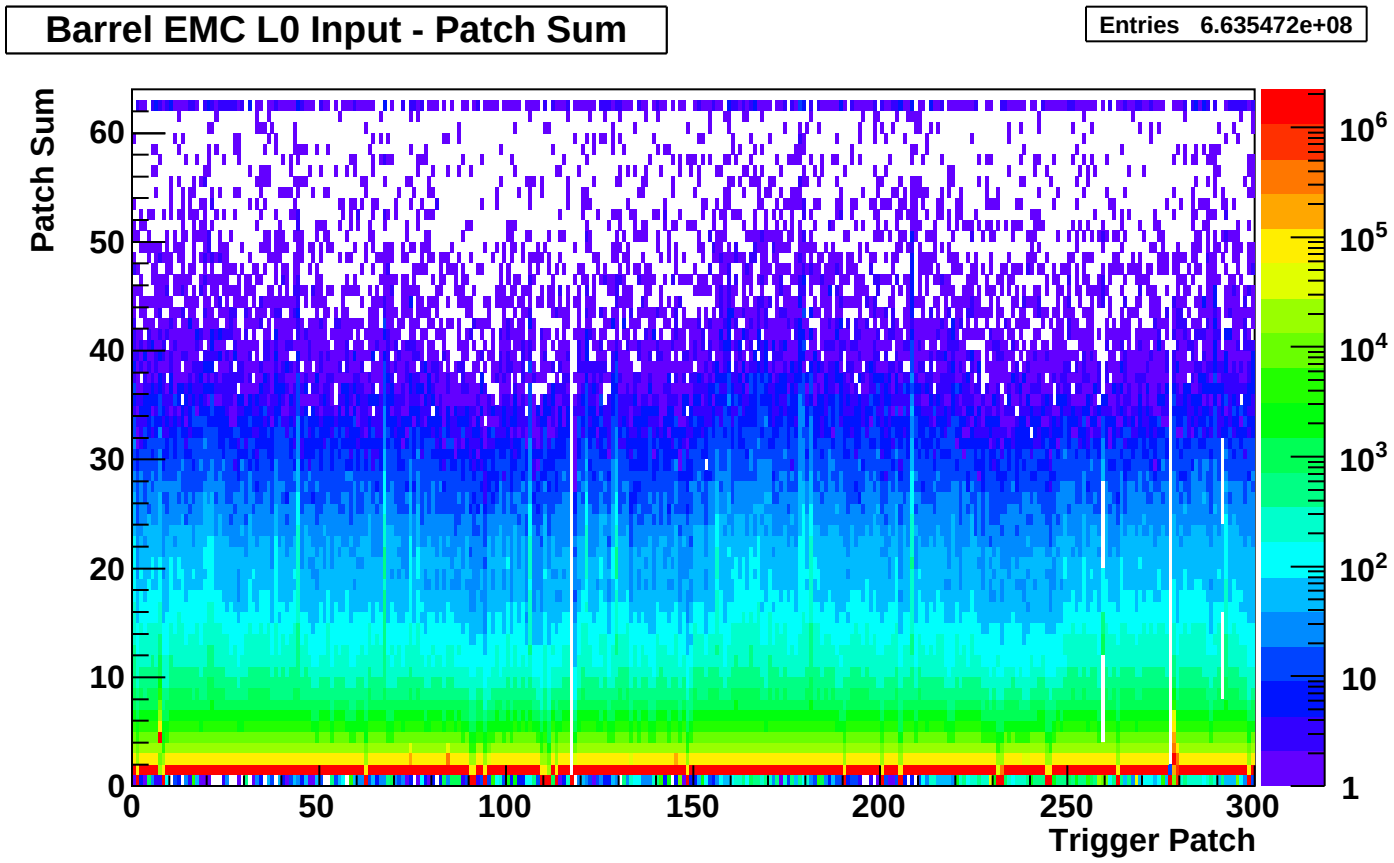

TPC Readout Mask (simulated)
Entries 423371

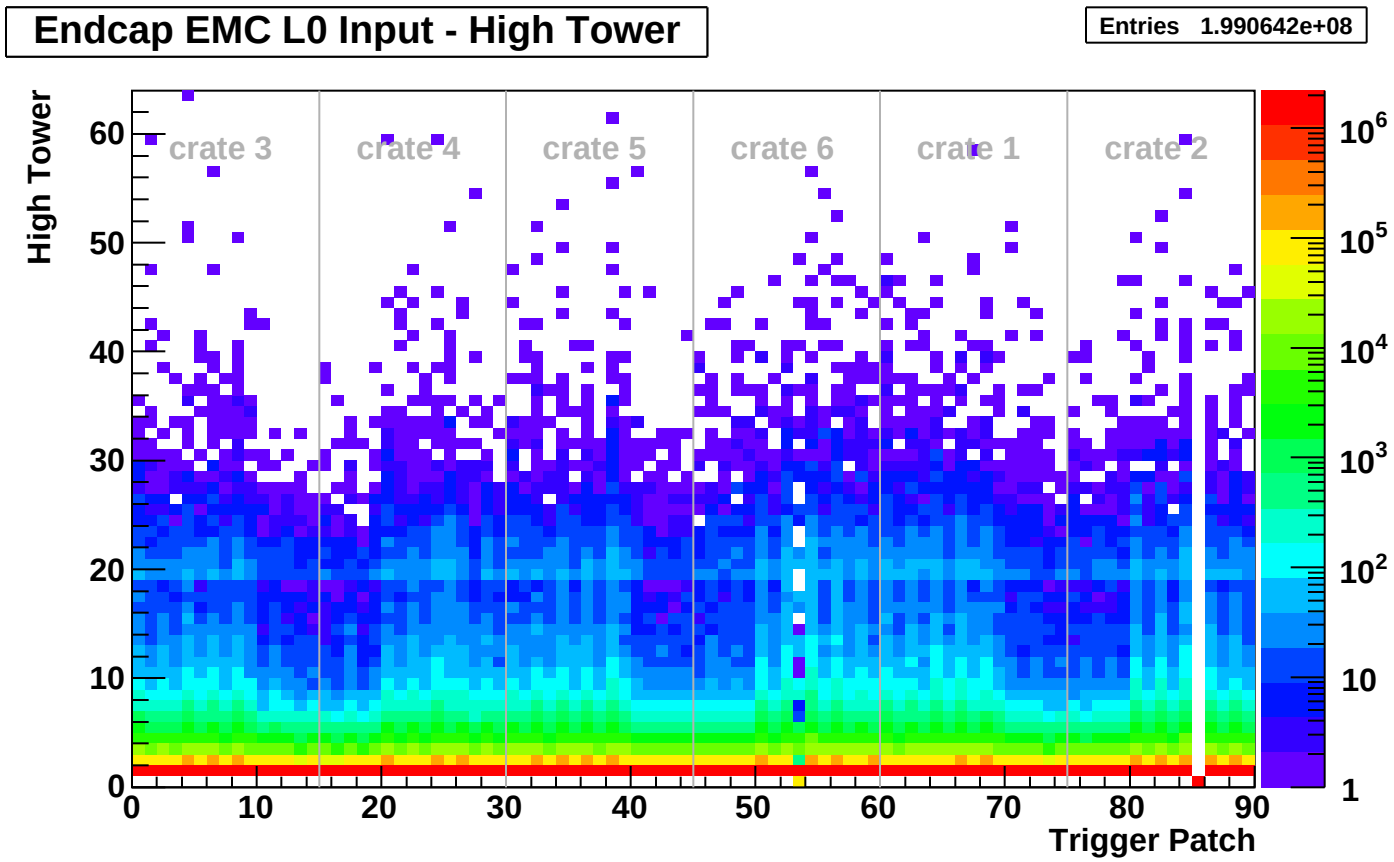

BunchId7Bit (all events)
Entries 2211824

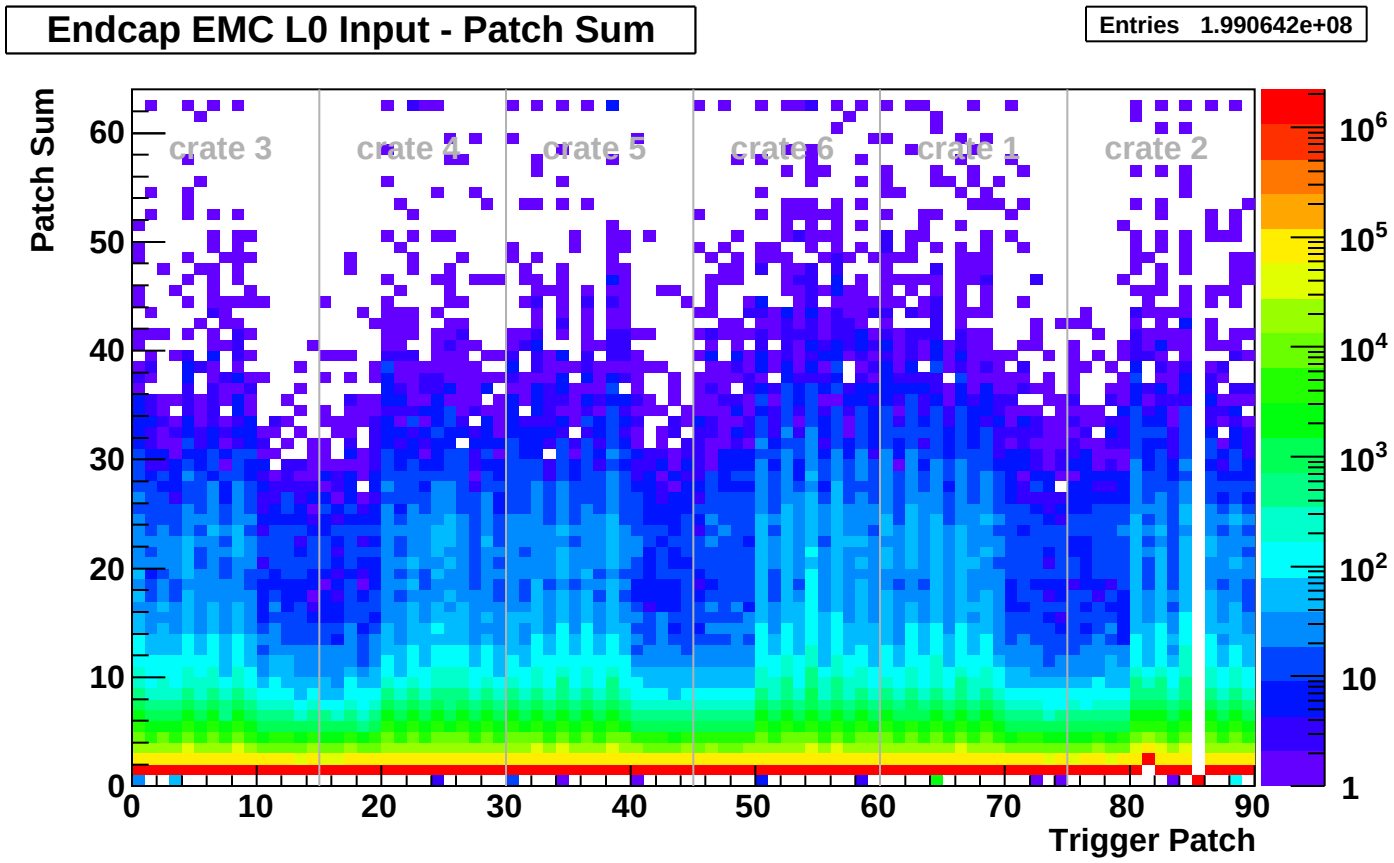

!Blue-Fill
Entries 2912

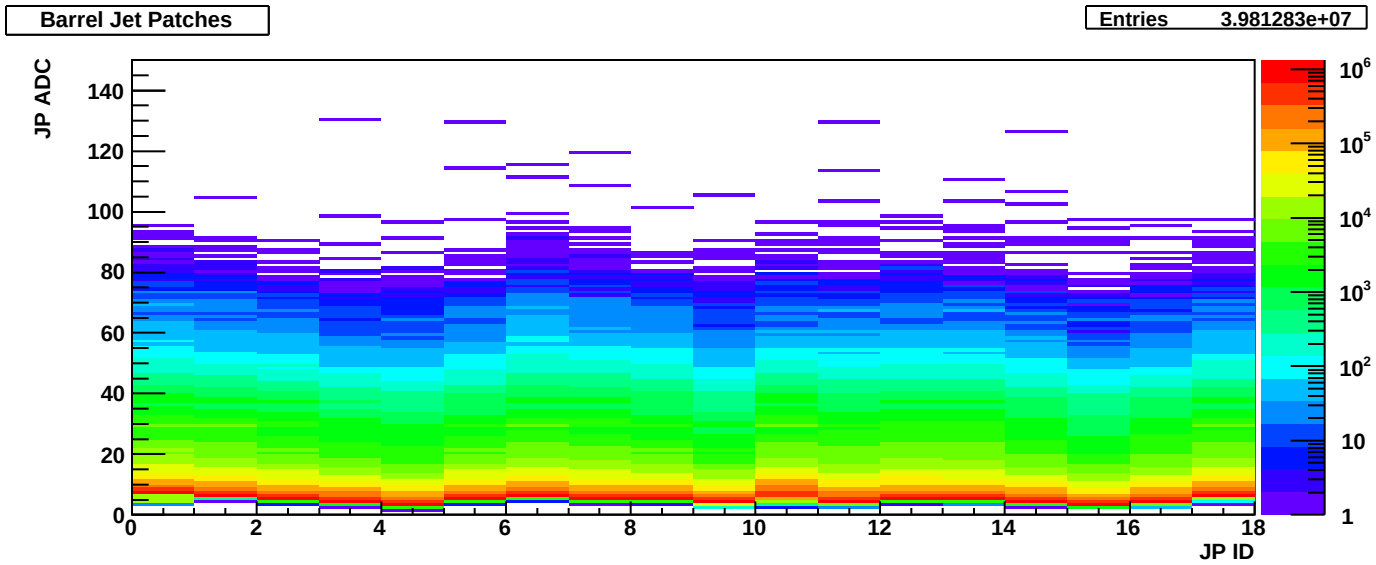

!Yellow-Fill
Entries 92832

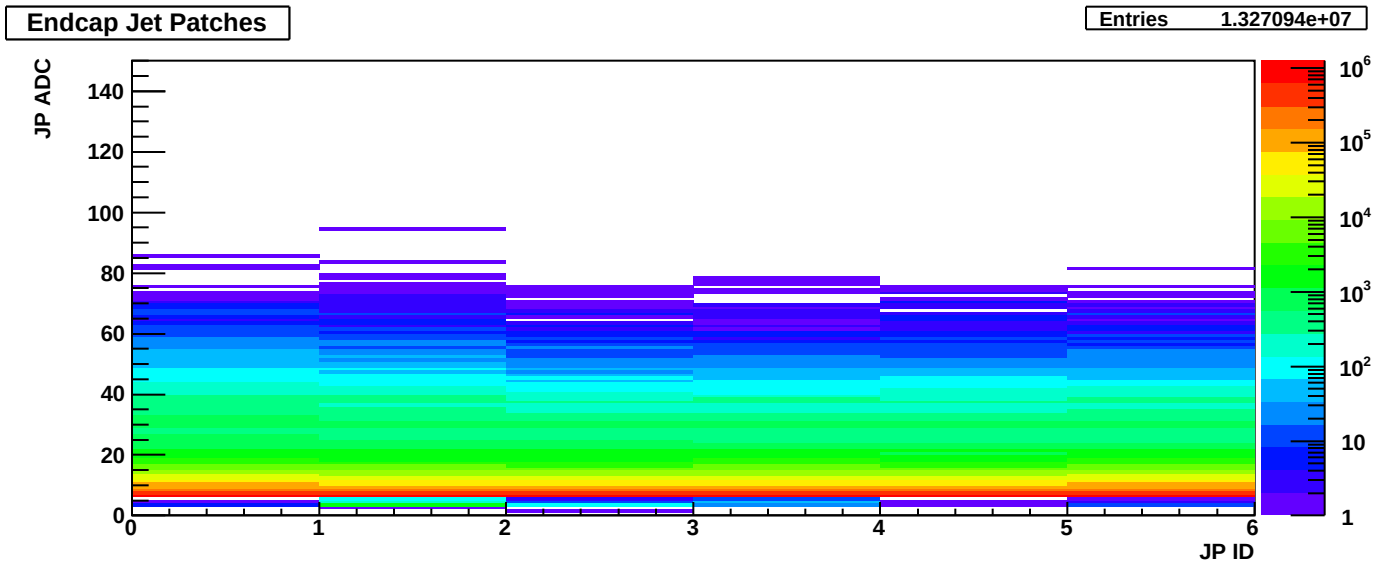

Barrel EMC L0 Input - High Tower
Entries 6.635472e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

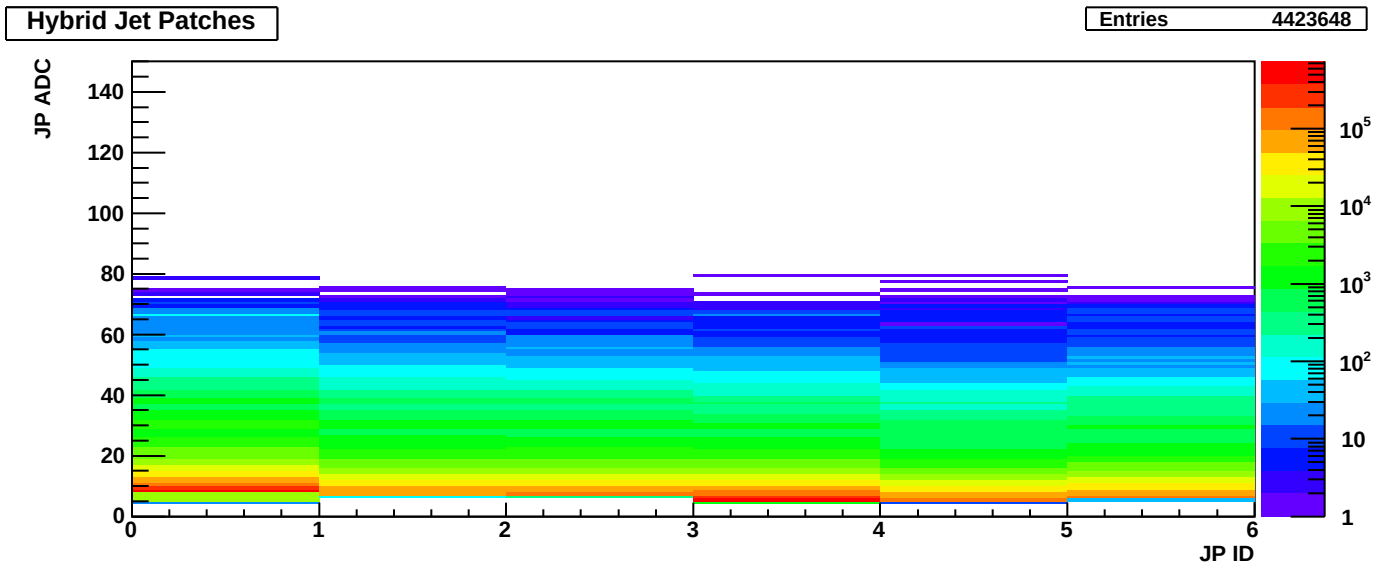

Barrel EMC L0 Input - Patch Sum
Entries 6.635472e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

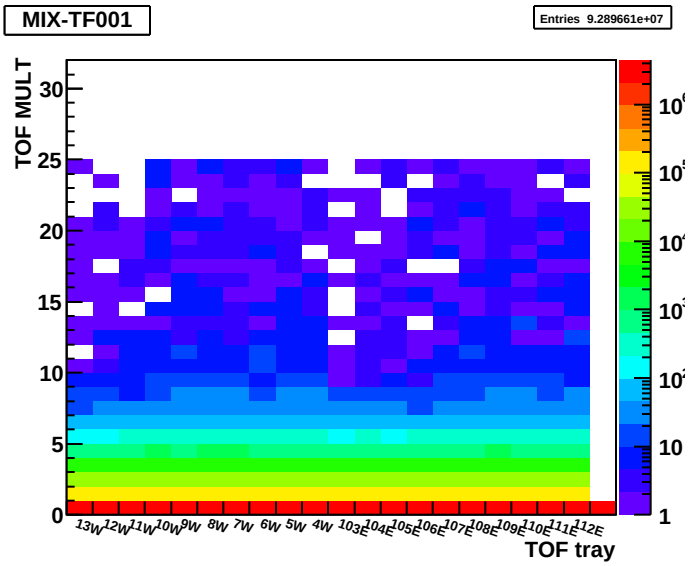

Endcap EMC L0 Input - High Tower
Entries 1.990642e+08
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

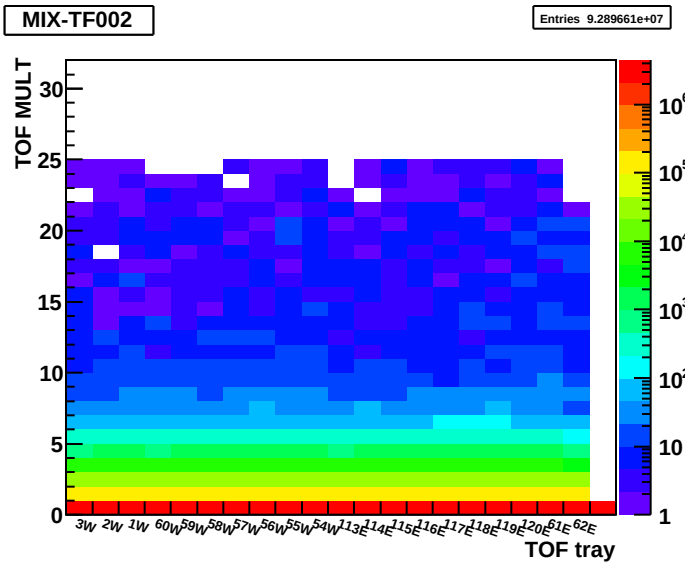

Endcap EMC L0 Input - Patch Sum
Entries 1.990642e+08
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

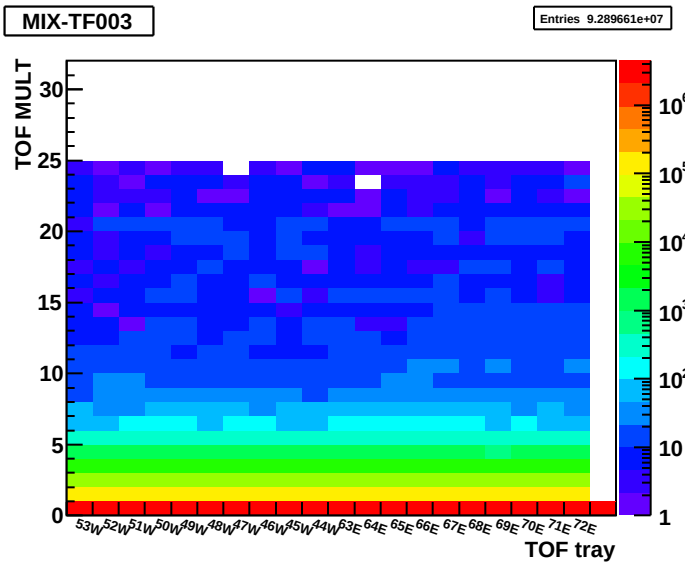

Barrel Jet Patches
Entries 3.981283e+07
JP ADC
JP ID

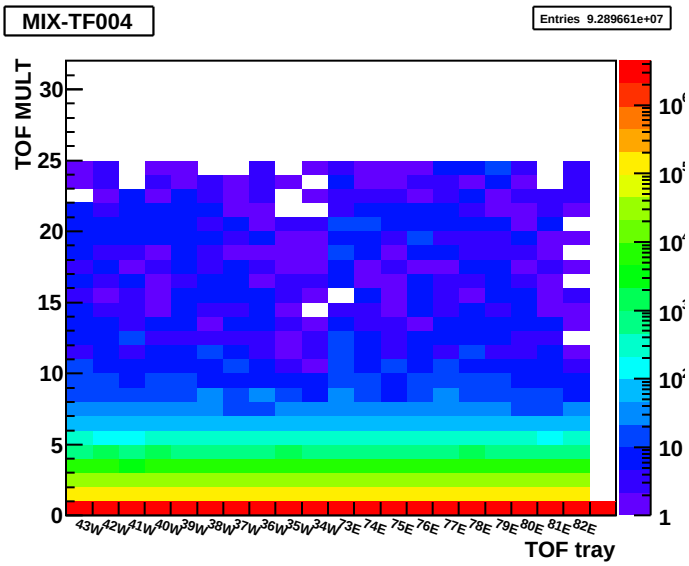

Endcap Jet Patches
Entries 1.327094e+07
JP ADC
JP ID

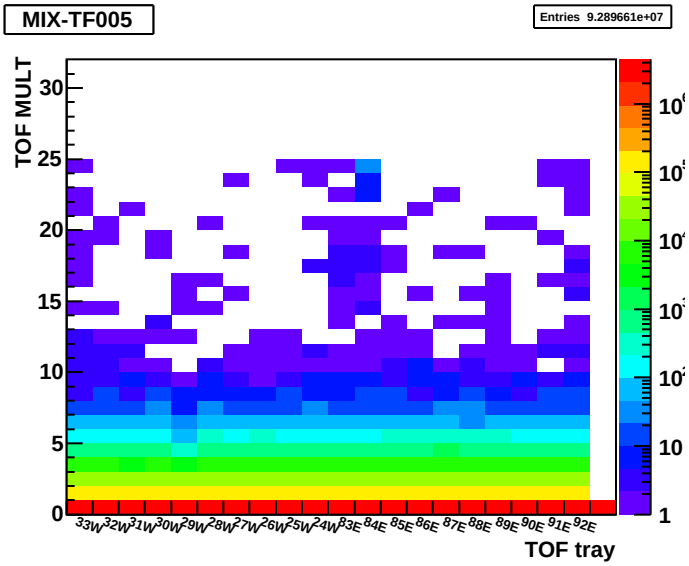

Hybrid Jet Patches
Entries 4423648
JP ADC
JP ID

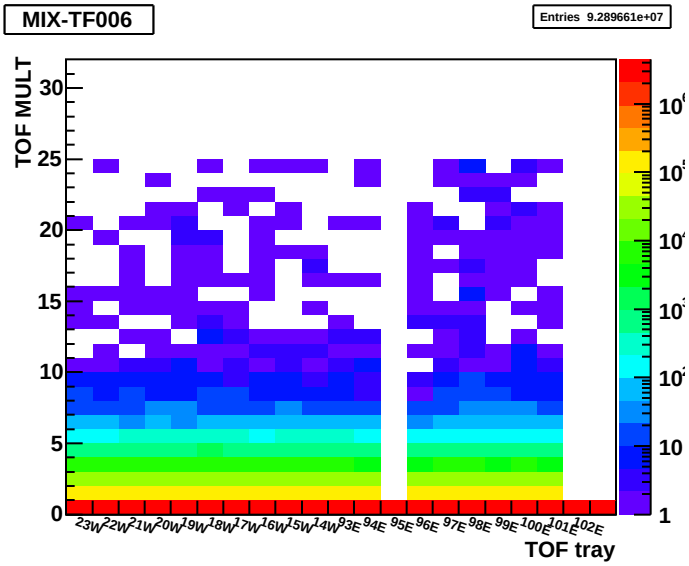

MIX-TF001
Entries 9.289661e+07
TOF MULT
TOF tray

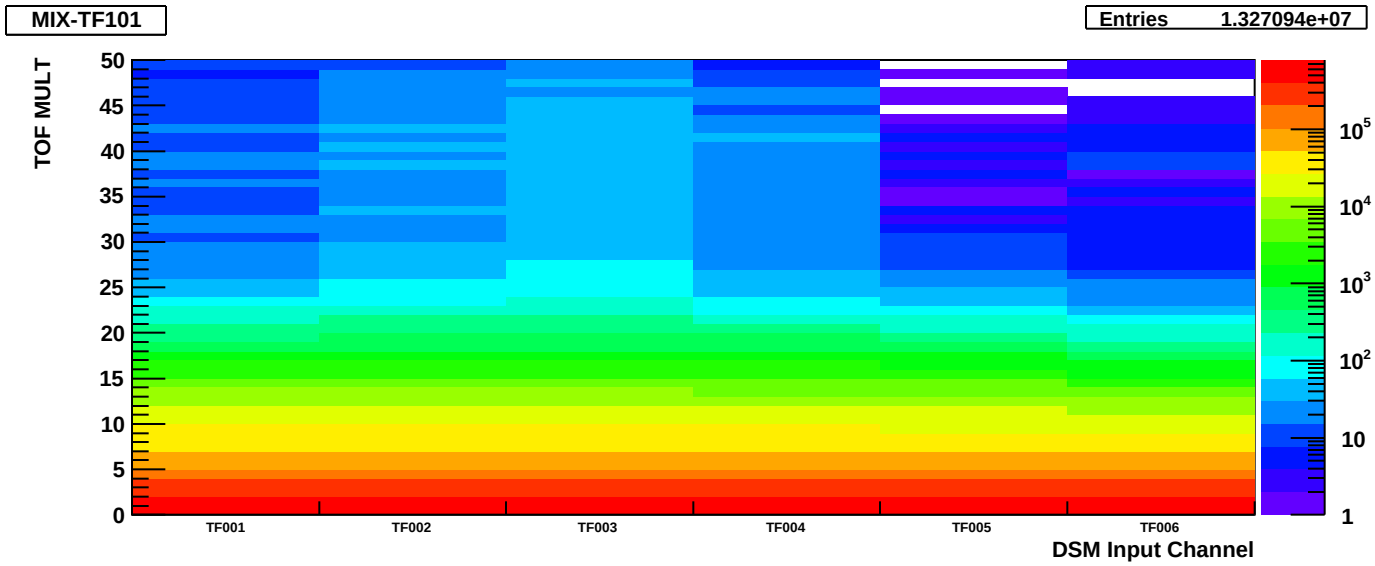

MIX-TF002
Entries 9.289661e+07
TOF MULT
TOF tray

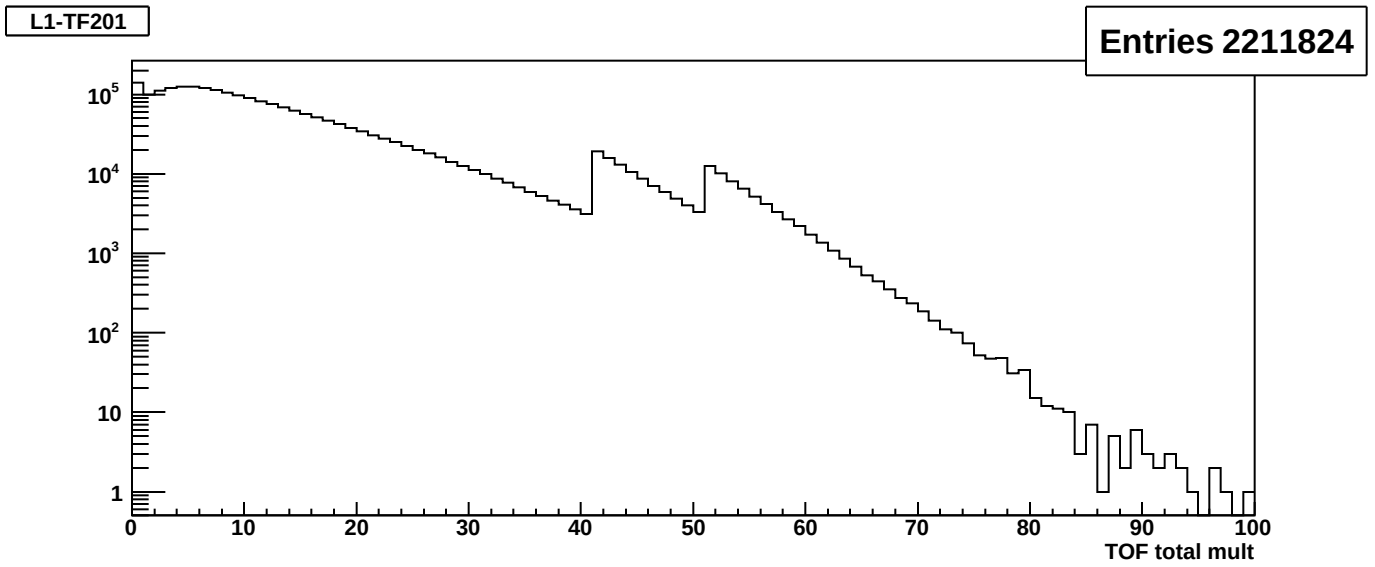

MIX-TF003
Entries 9.289661e+07
TOF MULT
TOF tray

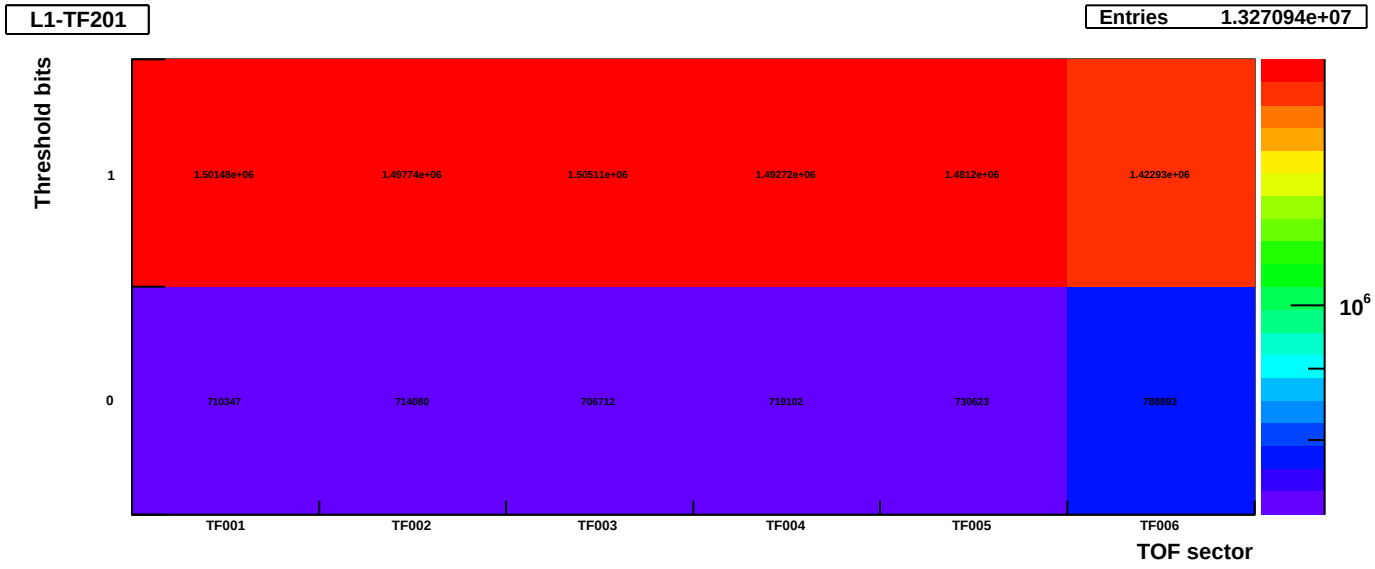

MIX-TF004
Entries 9.289661e+07
TOF MULT
TOF tray

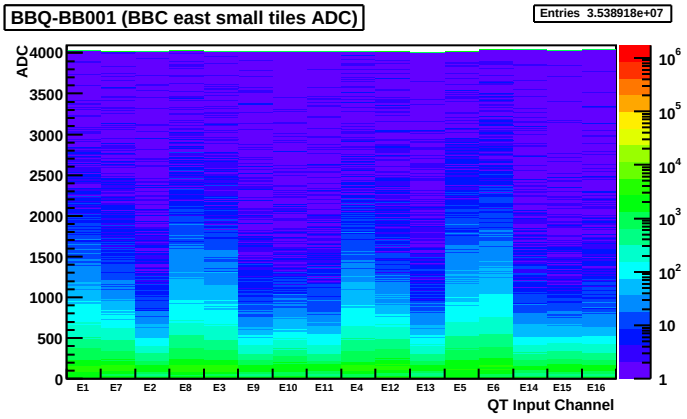

MIX-TF005
Entries 9.289661e+07
TOF MULT
TOF tray

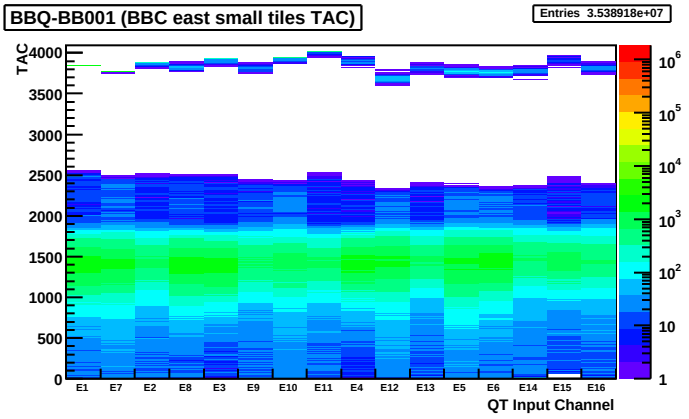

MIX-TF006
Entries 9.289661e+07
TOF MULT
TOF tray

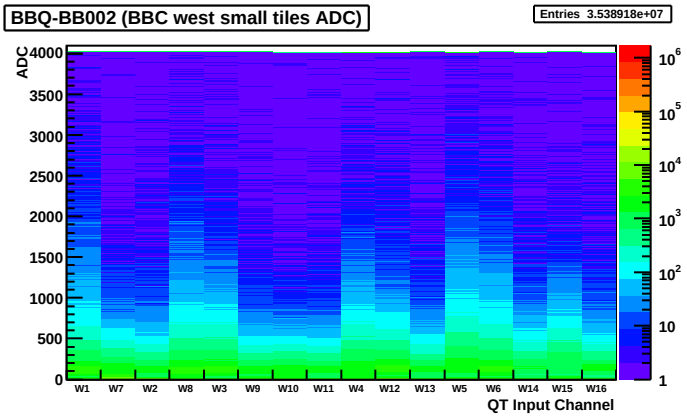

MIX-TF101
Entries 1.327094e+07
TOF MULT
50
45
40
35
30
25
20
15
10
5
0
TF001
TF002
TF003
TF004
TF005
TF006
DSM Input Channel
10^5
10^4
10^3
10^2
10
1

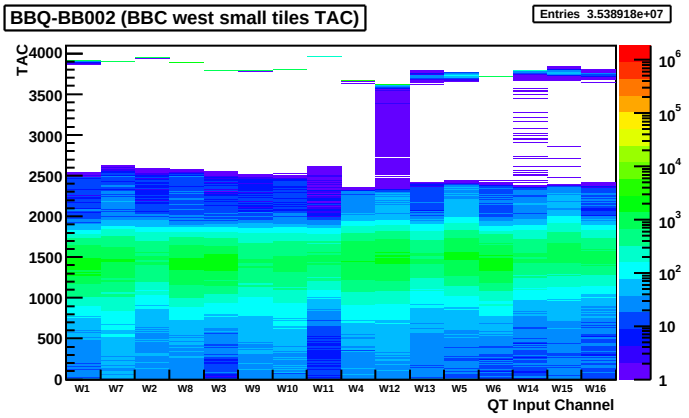

L1-TF201
Entries 2211824
10^5
10^4
10^3
10^2
10
1
0
10
20
30
40
50
60
70
80
90
100
TOF total mult

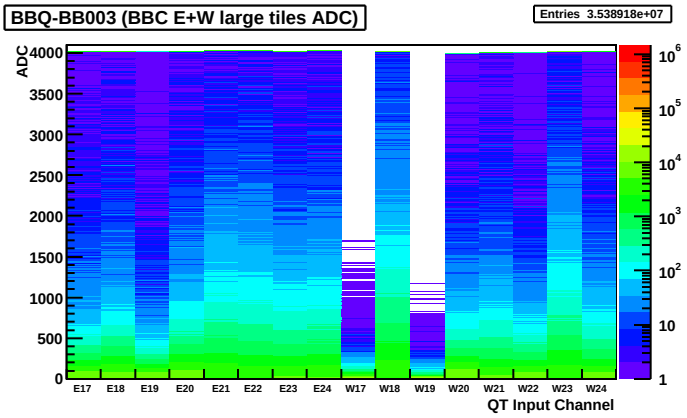

L1-TF201
Entries 1.327094e+07
Threshold bits
1
0
1.50148e+06
1.49774e+06
1.50511e+06
1.49272e+06
1.4812e+06
1.42293e+06
710347
714080
706712
719102
730623
788893
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector
10^6

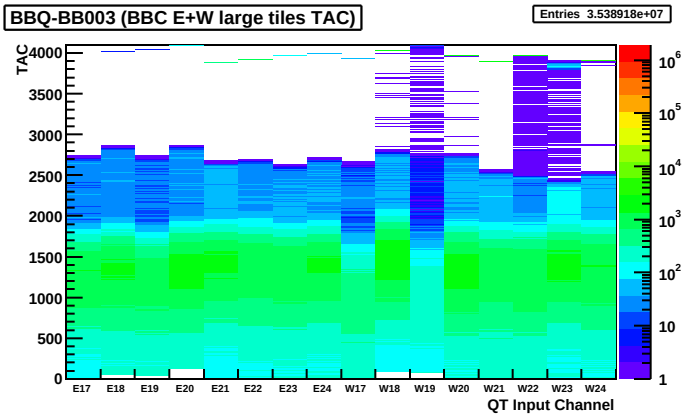

BBQ-BB001 (BBC east small tiles ADC)
Entries 3.538918e+07
ADC
QT Input Channel

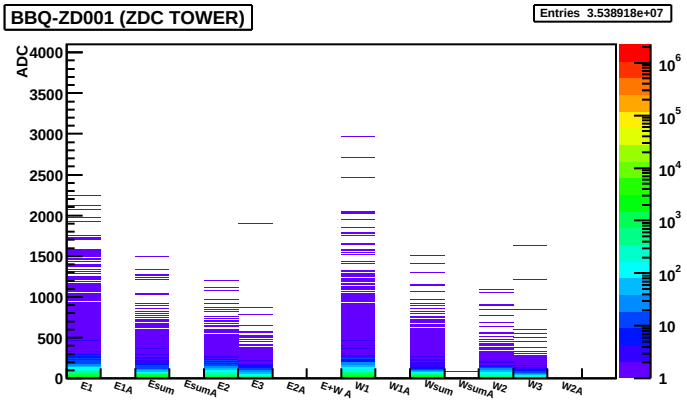

BBQ-BB001 (BBC east small tiles TAC)
Entries 3.538918e+07
TAC
QT Input Channel

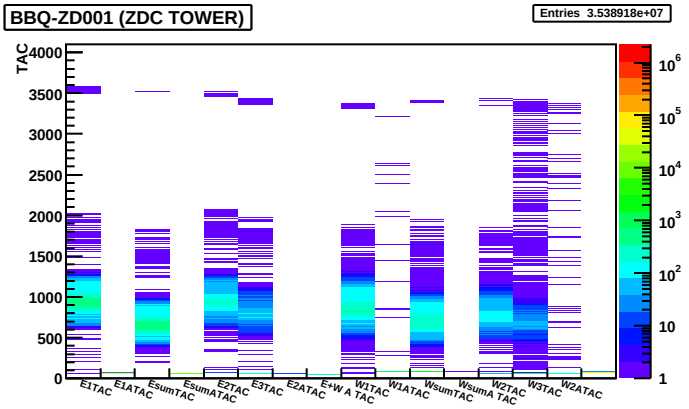

BBQ-BB002 (BBC west small tiles ADC)
Entries 3.538918e+07
ADC
QT Input Channel

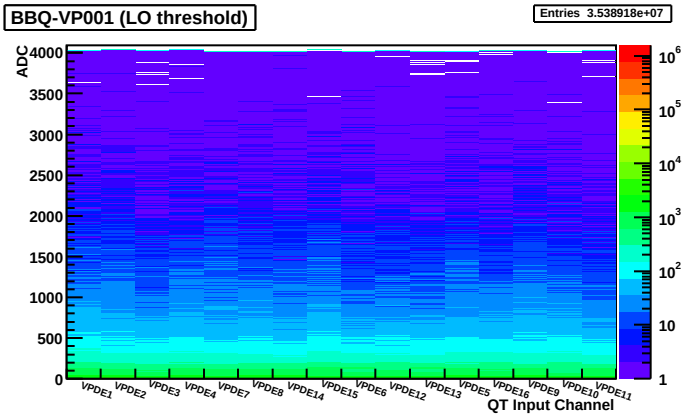

BBQ-BB002 (BBC west small tiles TAC)
Entries 3.538918e+07
TAC
QT Input Channel

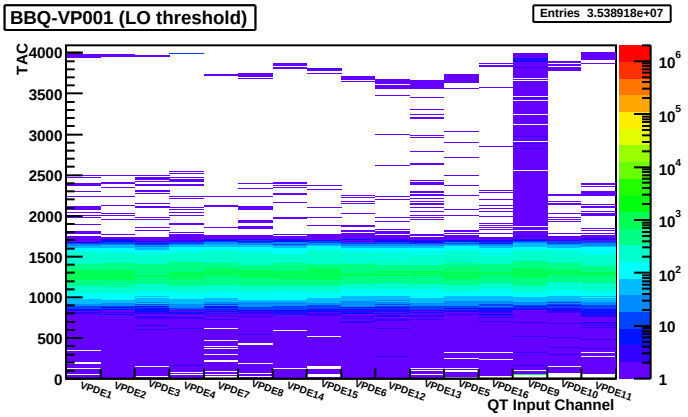

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 3.538918e+07
ADC
QT Input Channel

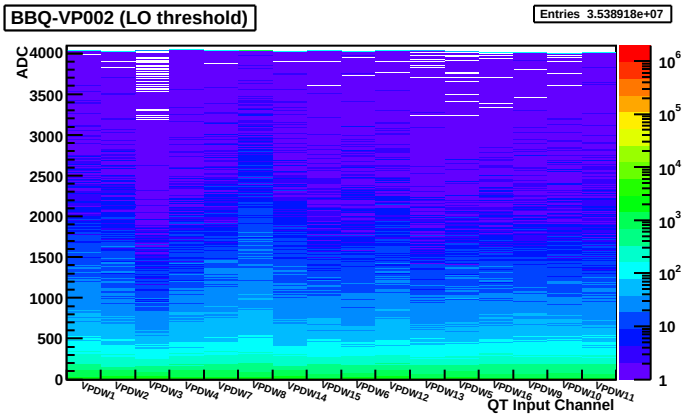

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 3.538918e+07
TAC
QT Input Channel

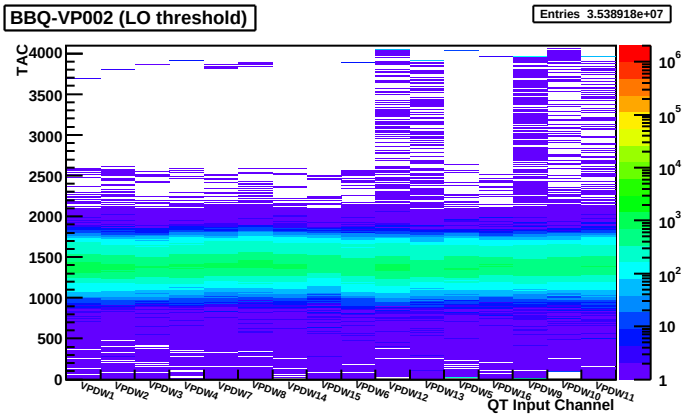

BBQ-ZD001 (ZDC TOWER)
Entries 3.538918e+07
ADC

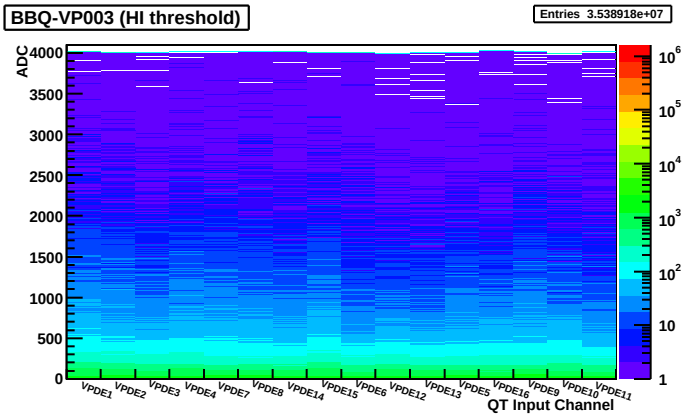

BBQ-ZD001 (ZDC TOWER)
Entries 3.538918e+07
TAC

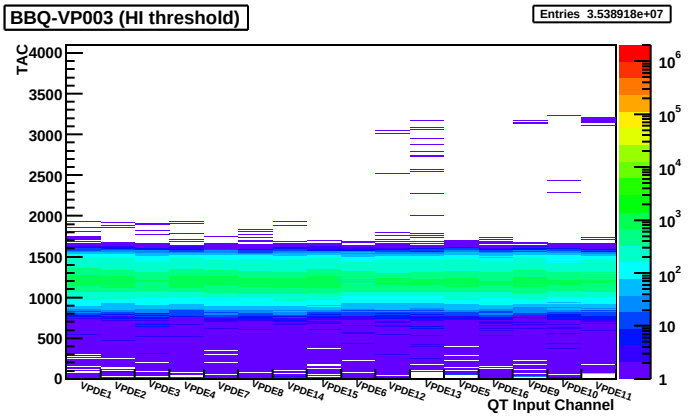

BBQ-VP001 (LO threshold)
Entries 3.538918e+07
ADC
QT Input Channel

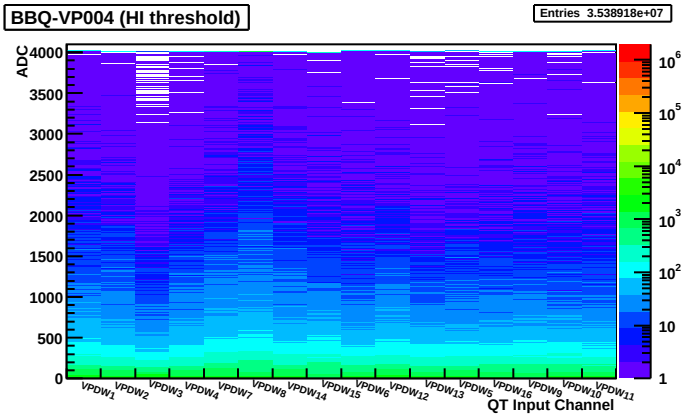

BBQ-VP001 (LO threshold)
Entries 3.538918e+07
TAC
QT Input Channel

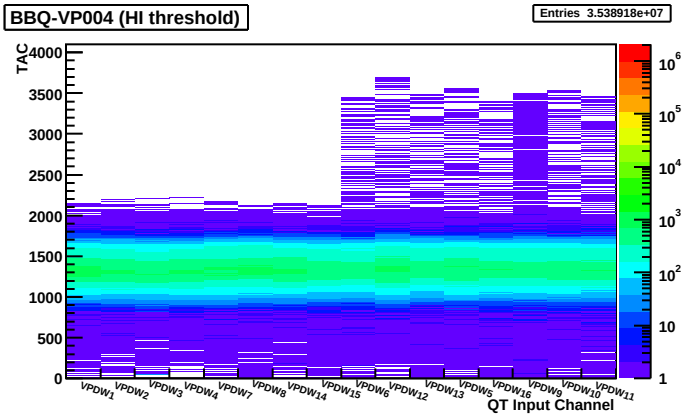

BBQ-VP002 (LO threshold)
Entries 3.538918e+07
ADC
QT Input Channel

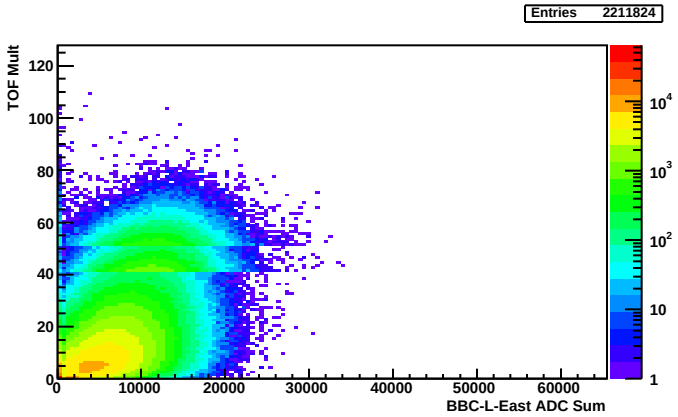

BBQ-VP002 (LO threshold)
Entries 3.538918e+07
TAC
QT Input Channel

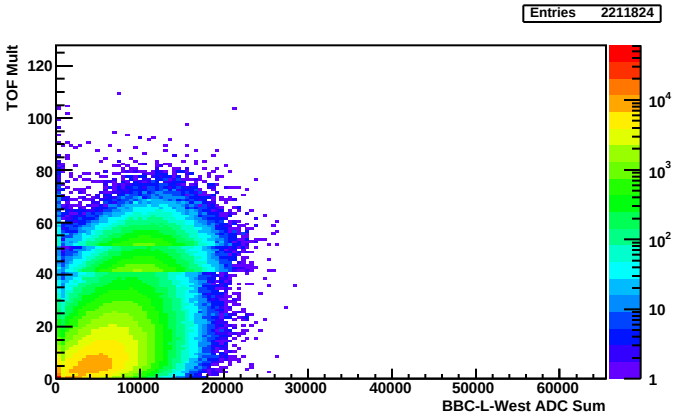

BBQ-VP003 (HI threshold)
Entries 3.538918e+07
ADC
QT Input Channel

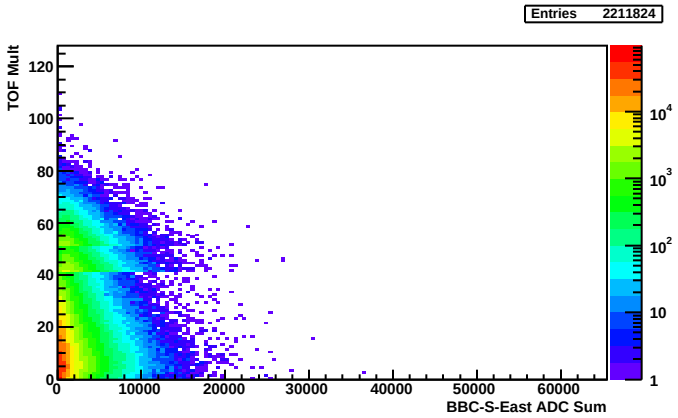

BBQ-VP003 (HI threshold)
Entries 3.538918e+07
TAC
QT Input Channel

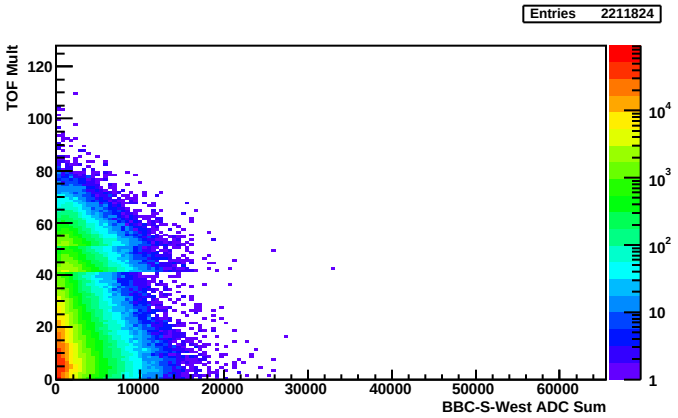

BBQ-VP004 (HI threshold)
Entries 3.538918e+07
ADC
QT Input Channel

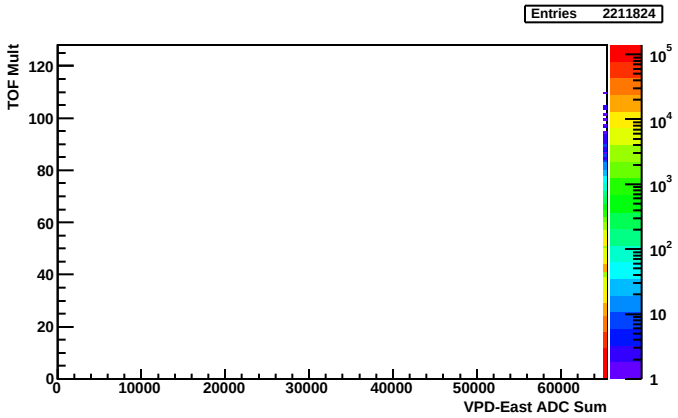

BBQ-VP004 (HI threshold)
Entries 3.538918e+07
TAC
QT Input Channel

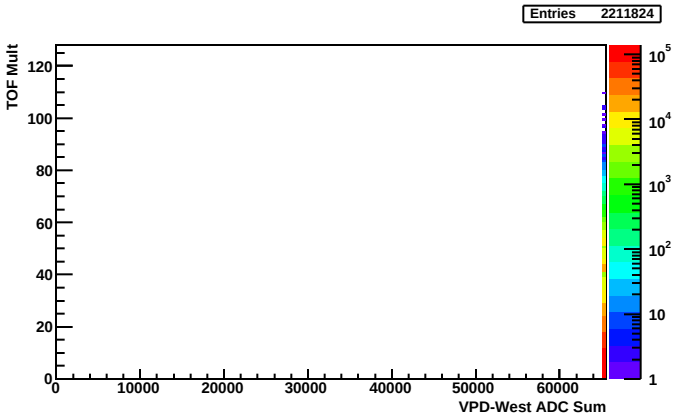

Entries 2211824
TOF Mult
BBC-L-East ADC Sum

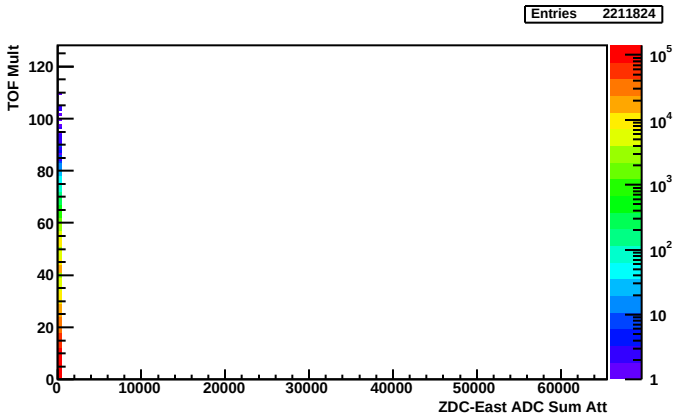

Entries 2211824
TOF Mult
BBC-L-West ADC Sum

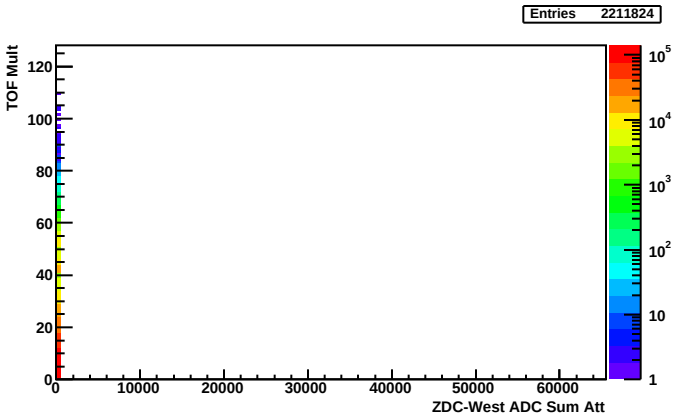

Entries 2211824
TOF Mult
BBC-S-East ADC Sum

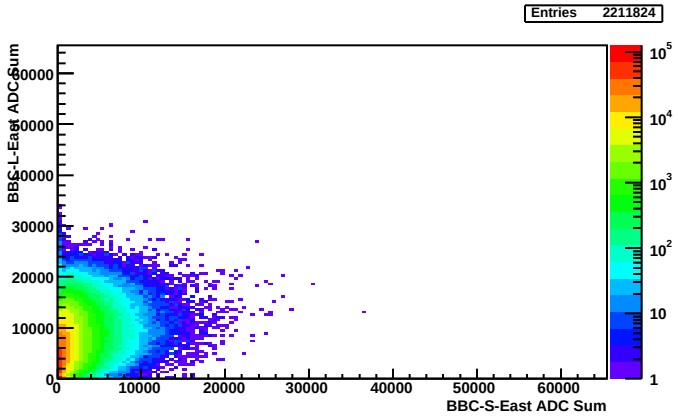

Entries 2211824
TOF Mult
BBC-S-West ADC Sum

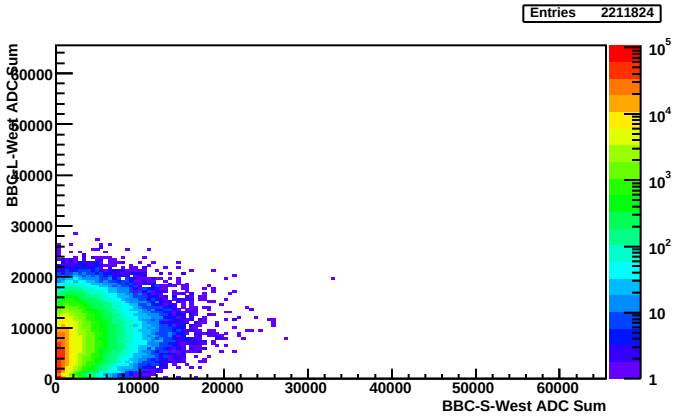

Entries 2211824
TOF Mult
VPD-East ADC Sum

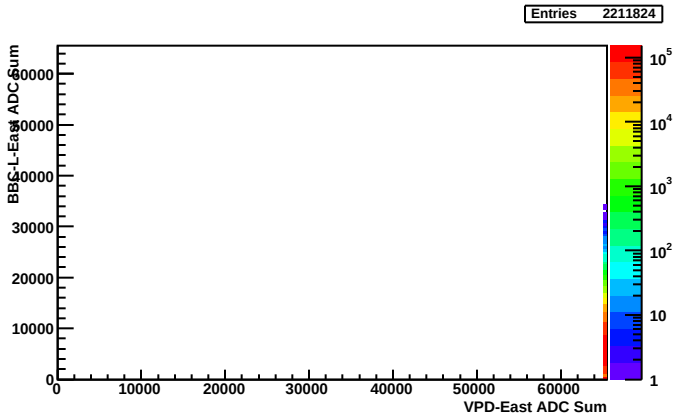

Entries 2211824
TOF Mult
VPD-West ADC Sum

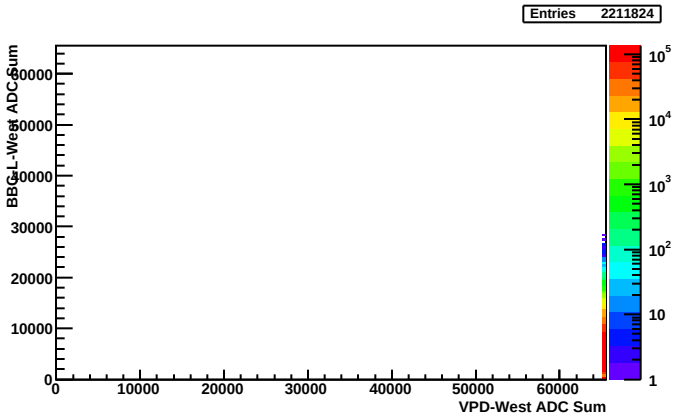

Entries 2211824
TOF Mult
ZDC-East ADC Sum Att

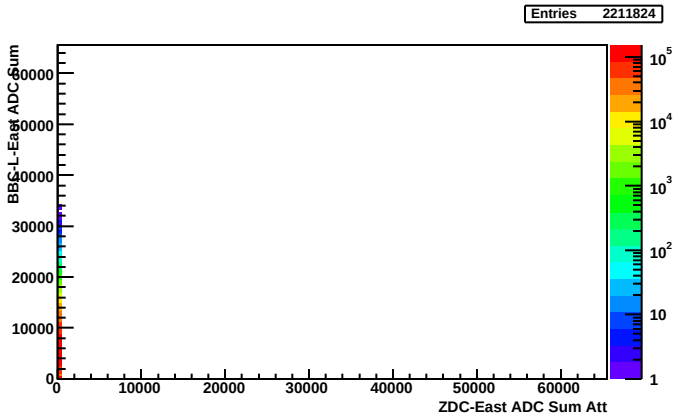

Entries 2211824
TOF Mult
ZDC-West ADC Sum Att

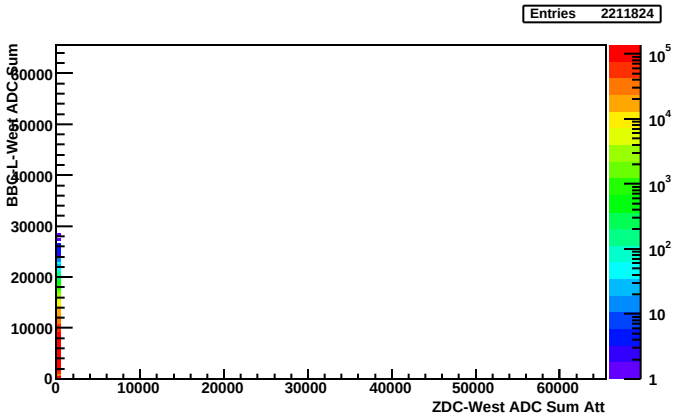

Entries 2211824
BBC-L-East ADC Sum
BBC-S-East ADC Sum

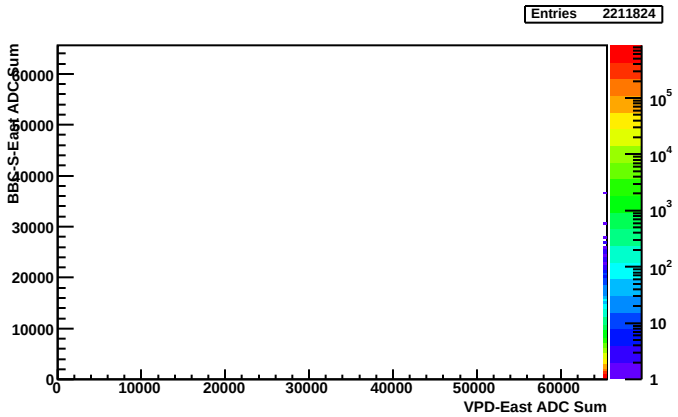

Entries 2211824
BBC-L-West ADC Sum
BBC-S-West ADC Sum

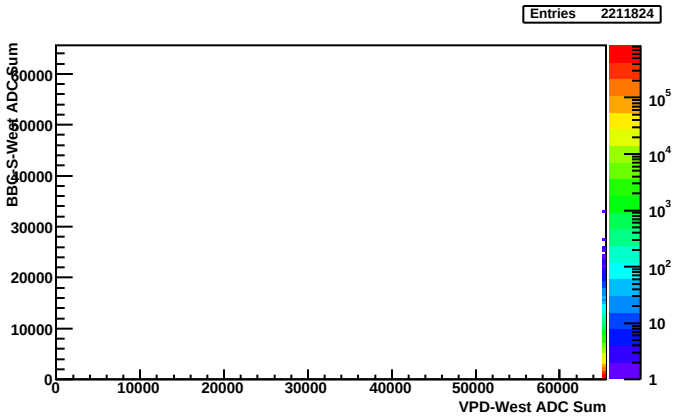

Entries 2211824
BBC-L-East ADC Sum
VPD-East ADC Sum

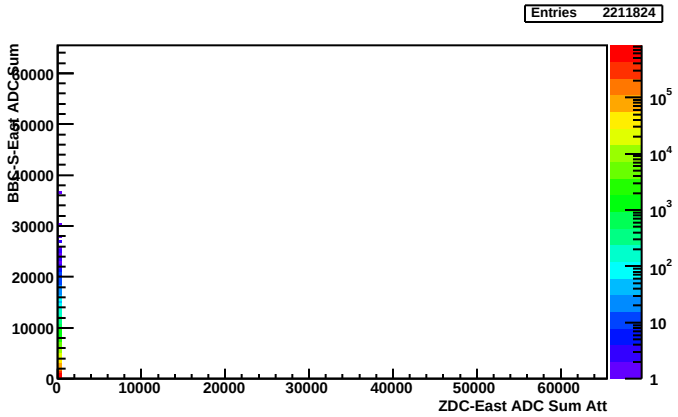

Entries 2211824
BBC-L-West ADC Sum
VPD-West ADC Sum

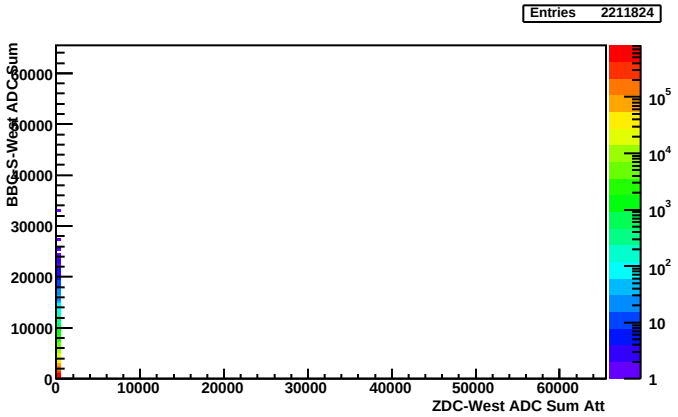

Entries 2211824
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

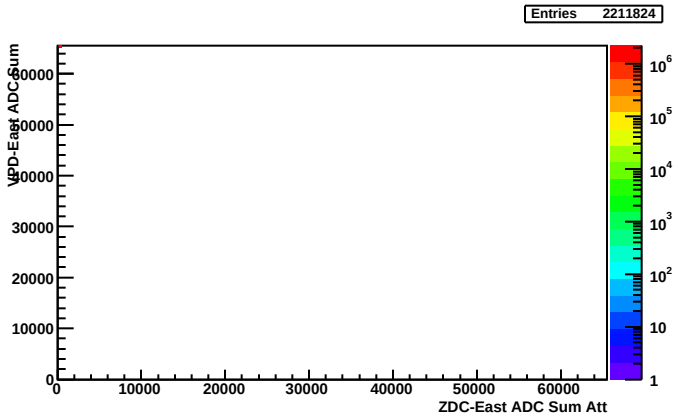

Entries 2211824
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

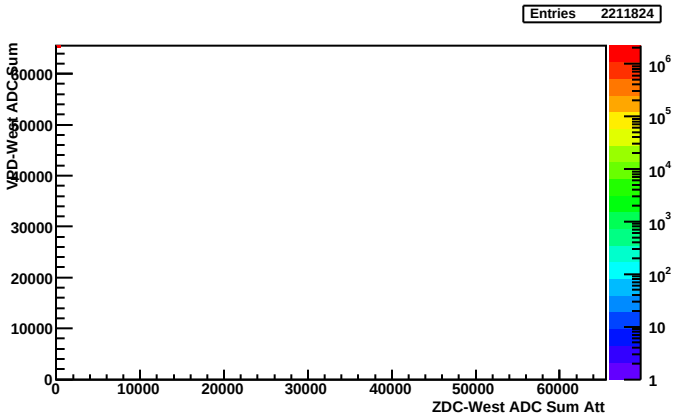

Entries 2211824
BBC-S-East ADC Sum
VPD-East ADC Sum

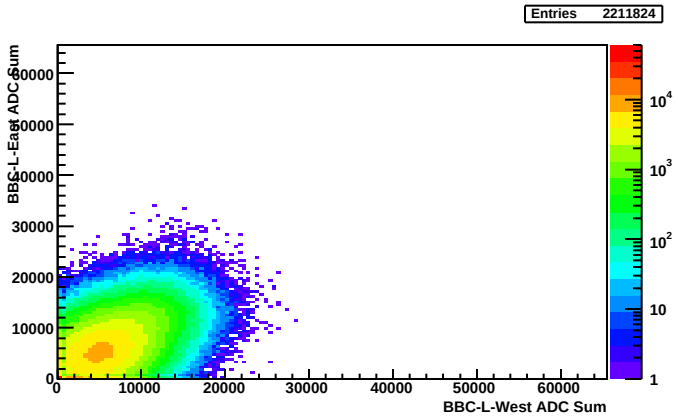

Entries 2211824
BBC-S-West ADC Sum
VPD-West ADC Sum

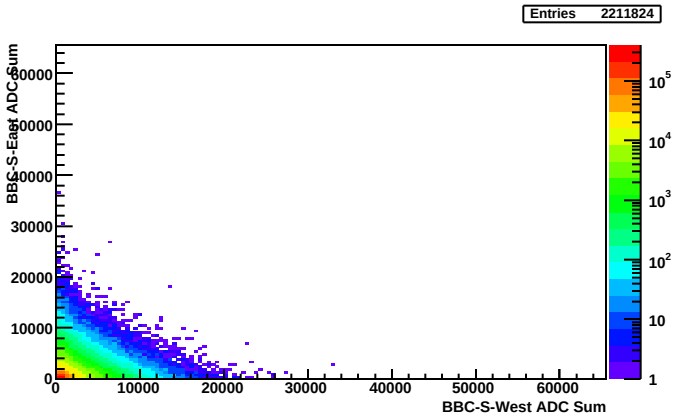

Entries 2211824
BBC-S-East ADC Sum
ZDC-East ADC Sum Att

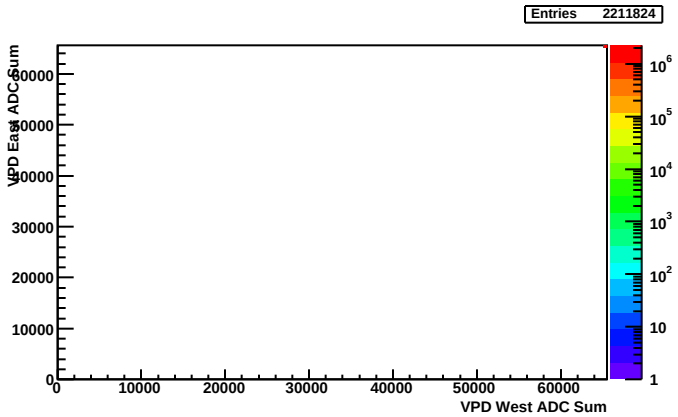

Entries 2211824
BBC-S-West ADC Sum
ZDC-West ADC Sum Att

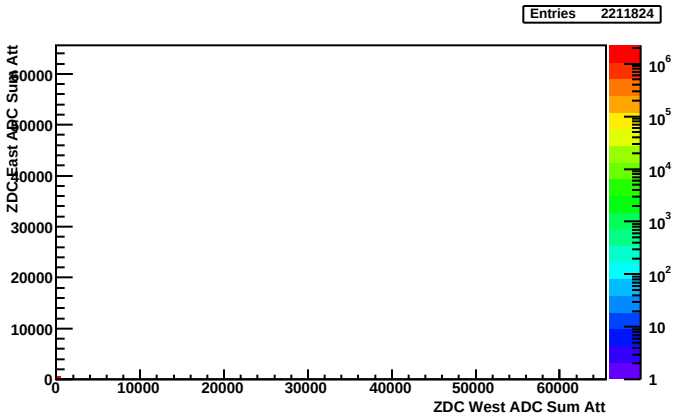

Entries 2211824
VPD-East ADC Sum
ZDC-East ADC Sum Att

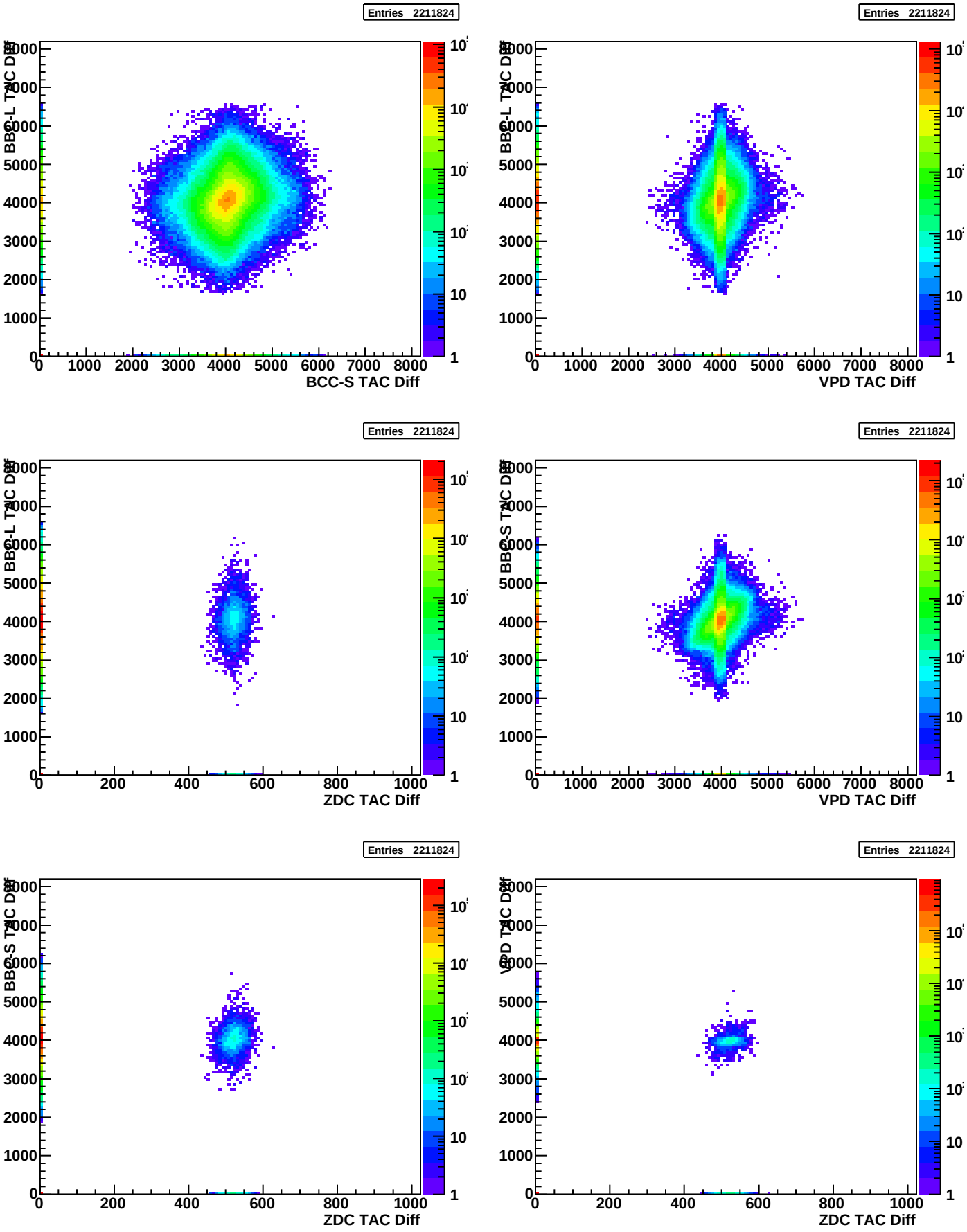

Entries 2211824
VPD-West ADC Sum
ZDC-West ADC Sum Att

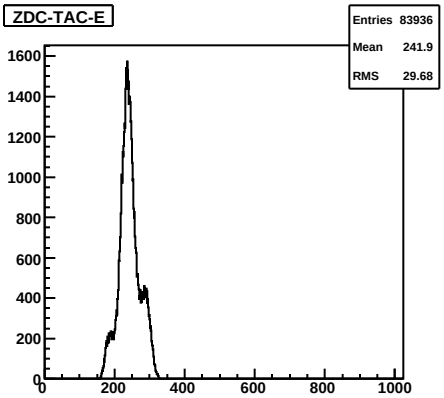

Entries 2211824
BBC-L-East ADC Sum
BBC-L-West ADC Sum

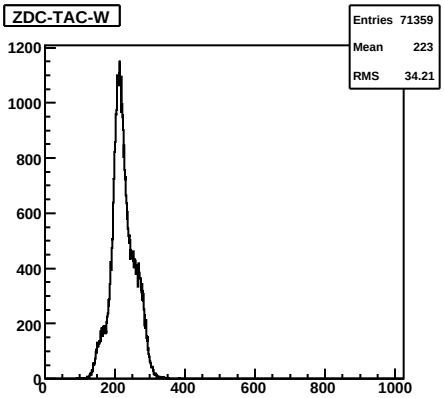

Entries 2211824
BBC-S-East ADC Sum
BBC-S-West ADC Sum

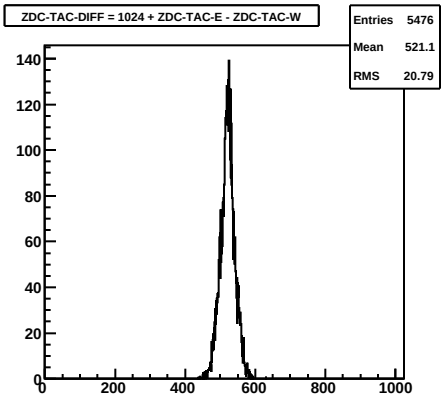

Entries 2211824
VPD East ADC Sum
VPD West ADC Sum

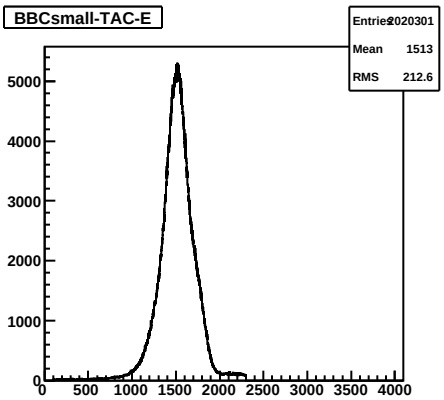

Entries 2211824
ZDC East ADC Sum Att
ZDC West ADC Sum Att

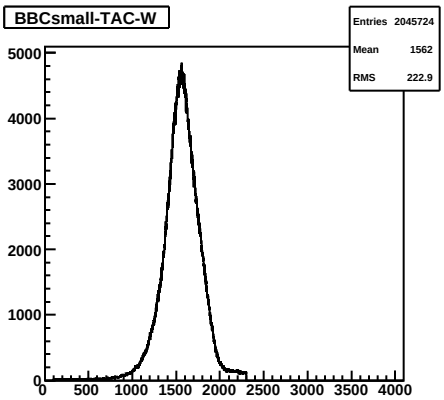

Entries 2211824
BBC-L TAC Diff
BCC-S TAC Diff
Entries 2211824
BBC-L TAC Diff
VPD TAC Diff
Entries 2211824
BBC-L TAC Diff
ZDC TAC Diff
Entries 2211824
BBC-S TAC Diff
VPD TAC Diff
Entries 2211824
BBC-S TAC Diff
ZDC TAC Diff
Entries 2211824
VPD TAC Diff
ZDC TAC Diff

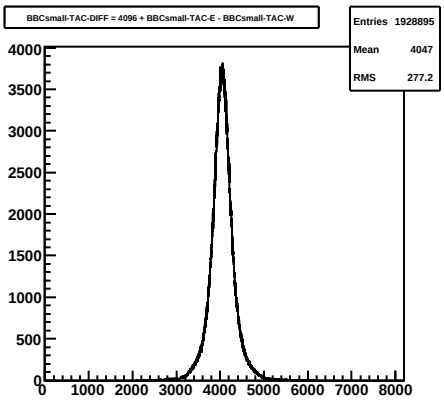

ZDC-TAC-E
Entries 83936
Mean 241.9
RMS 29.68

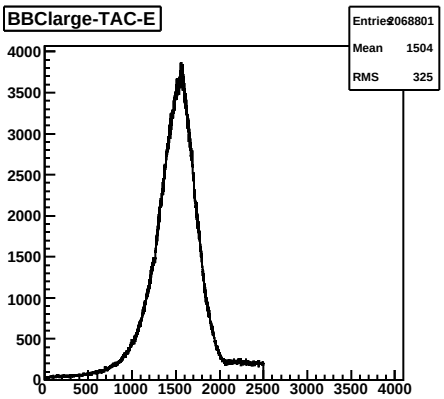

ZDC-TAC-W
Entries 71359
Mean 223
RMS 34.21

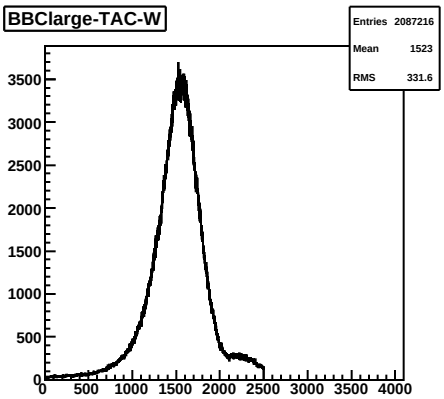

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 5476
Mean 521.1
RMS 20.79

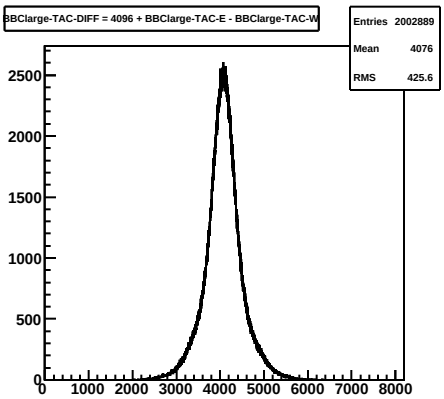

BBCsmall-TAC-E
Entries 2020301
Mean 1513
RMS 212.6

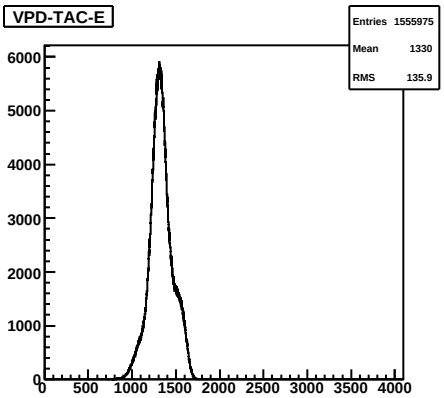

BBCsmall-TAC-W
Entries 2045724
Mean 1562
RMS 222.9

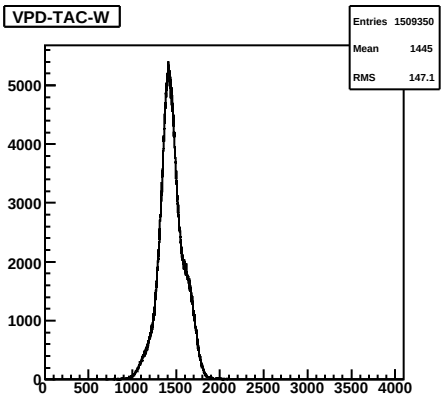

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 1928895
Mean 4047
RMS 277.2

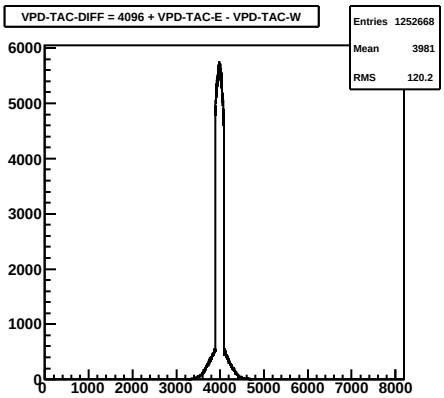

BBClarge-TAC-E
Entries 2068801
Mean 1504
RMS 325

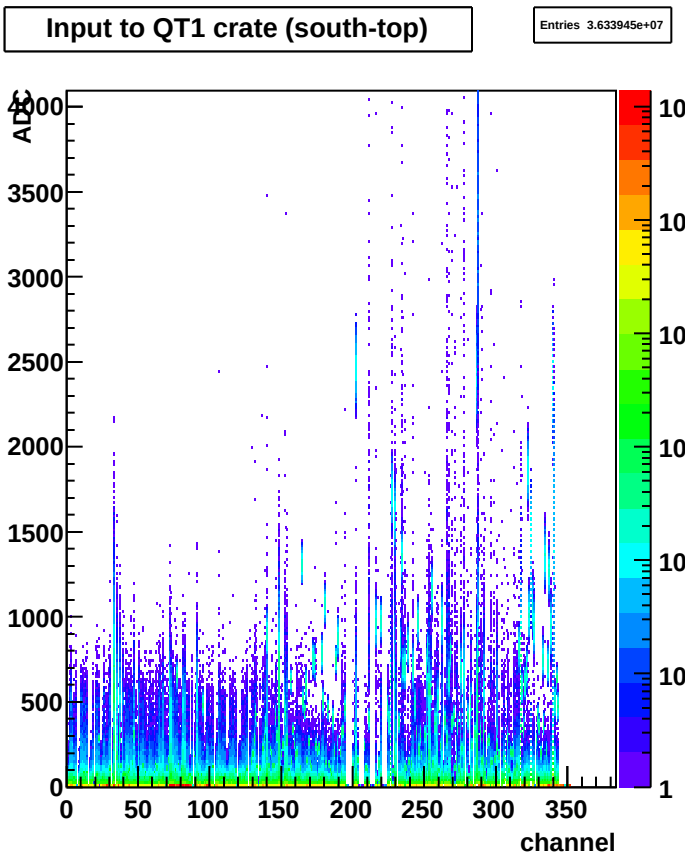

BBClarge-TAC-W
Entries 2087216
Mean 1523
RMS 331.6

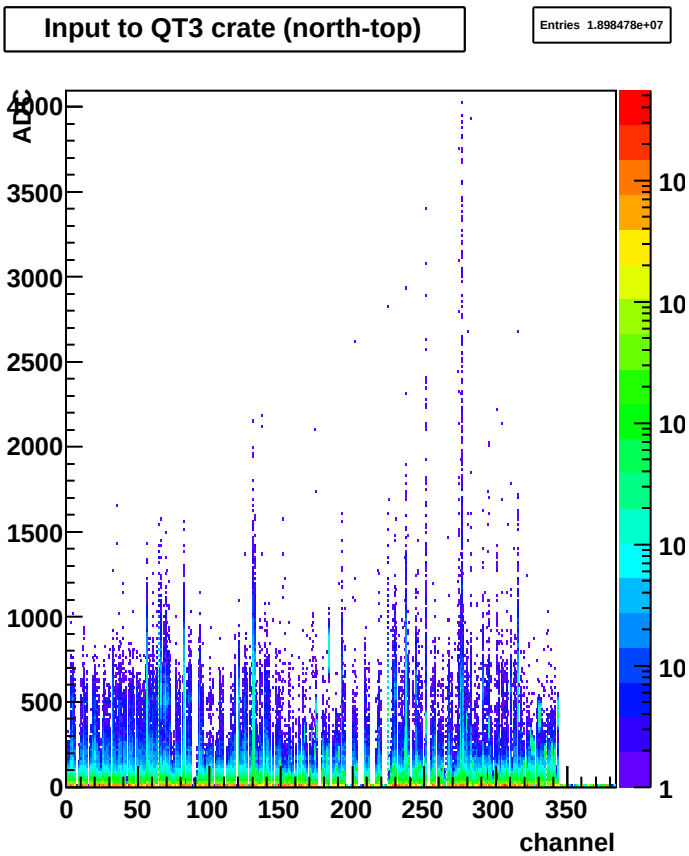

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 2002889
Mean 4076
RMS 425.6

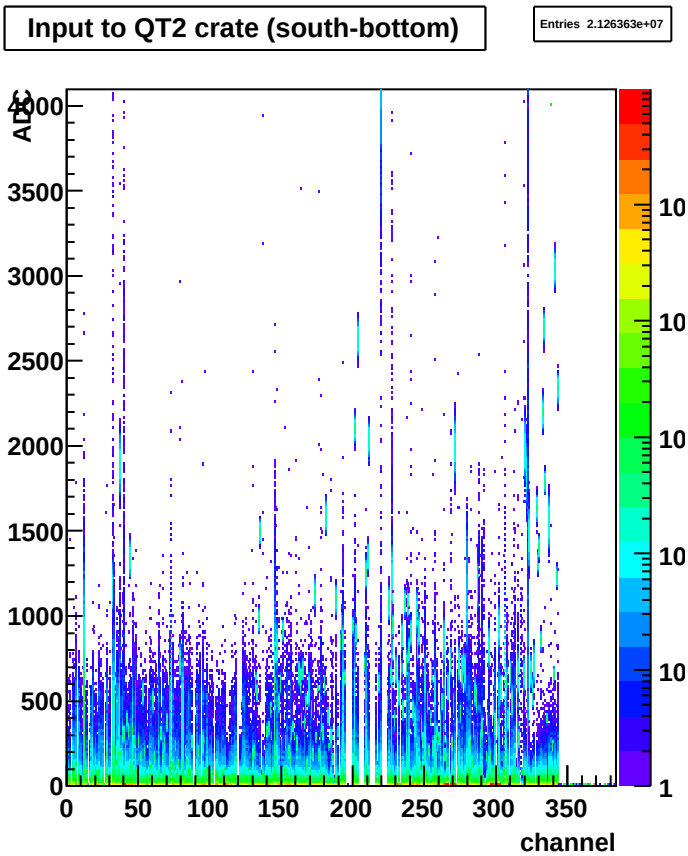

VPD-TAC-E
Entries 1555975
Mean 1330
RMS 135.9

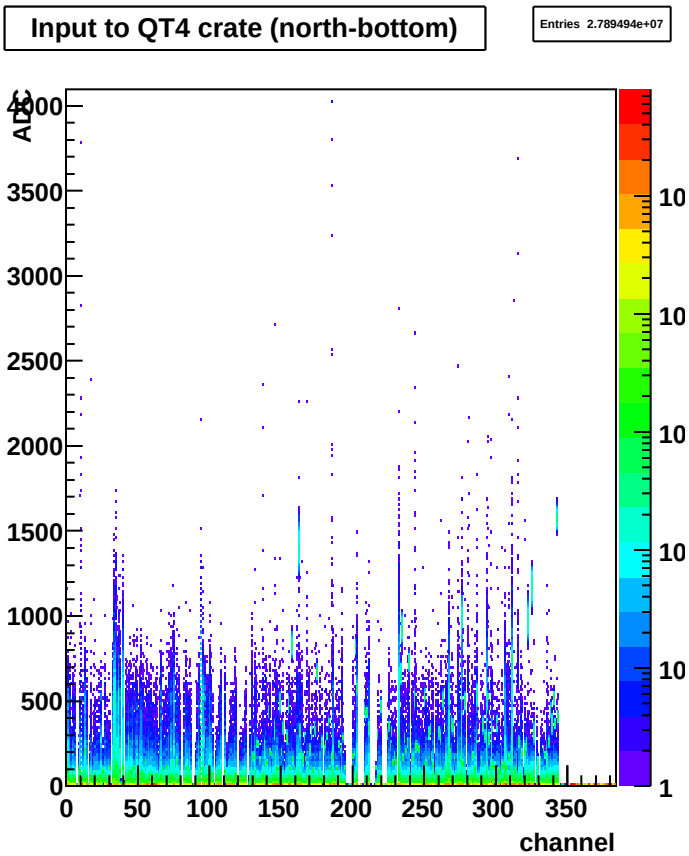

VPD-TAC-W
Entries 1509350
Mean 1445
RMS 147.1

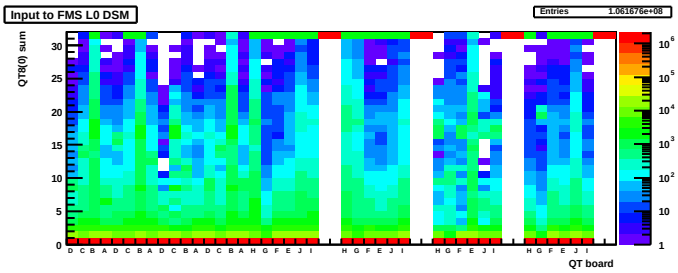

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 1252668
Mean 3981
RMS 120.2

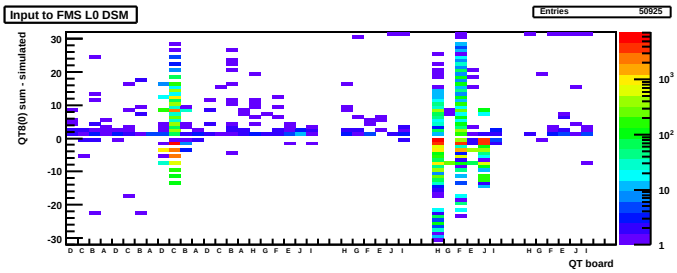

Input to QT1 crate (south-top)
Entries 3.633945e+07
ADC
channel

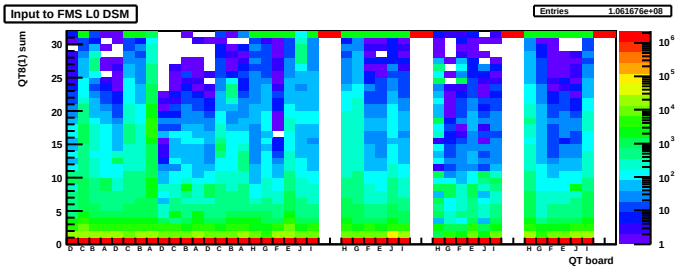

Input to QT3 crate (north-top)
Entries 1.898478e+07
ADC
channel

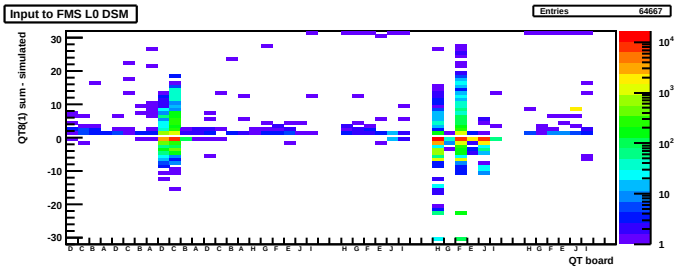

Input to QT2 crate (south-bottom)
Entries 2.126363e+07
ADC
channel

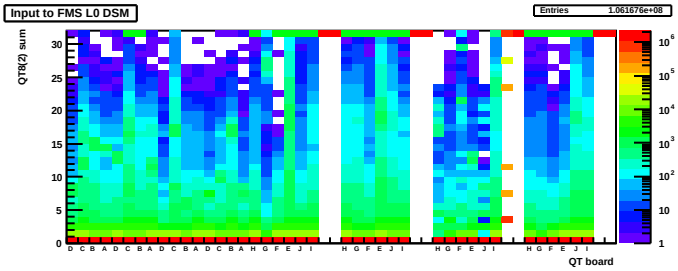

Input to QT4 crate (north-bottom)
Entries 2.789494e+07
ADC
channel

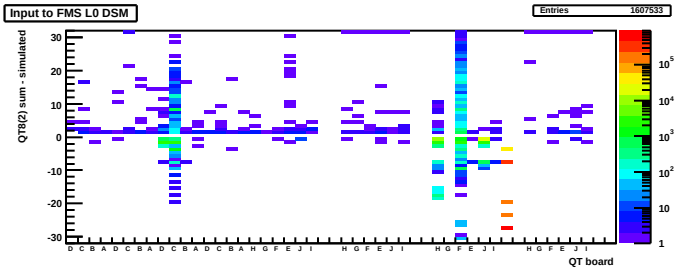

Input to FMS L0 DSM
Entries 1.061676e+08
QT8(0) sum
QT board

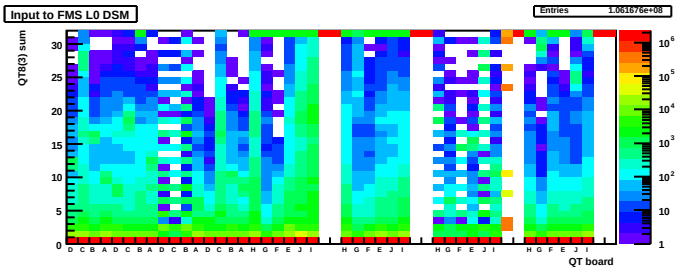

Input to FMS L0 DSM
Entries 50925
QT8(0) sum - simulated
QT board

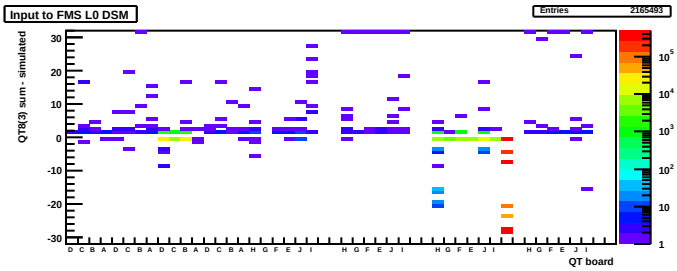

Input to FMS L0 DSM
Entries 1.061676e+08
QT8(1) sum
QT board

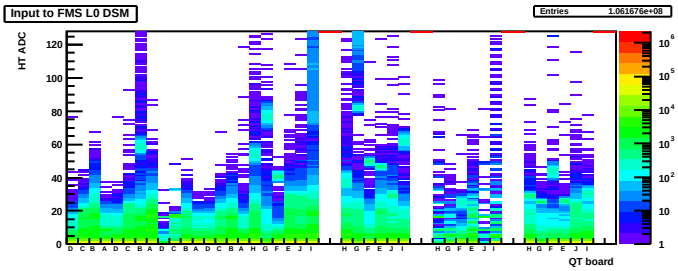

Input to FMS L0 DSM
Entries 64667
QT8(1) sum - simulated
QT board

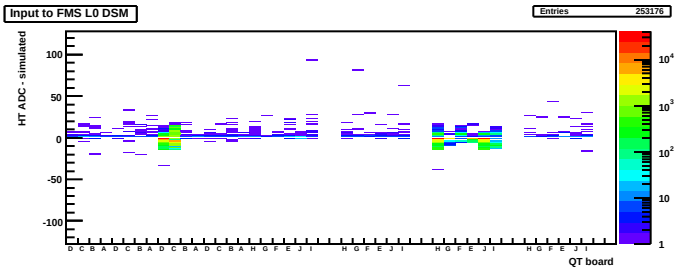

Input to FMS L0 DSM
Entries 1.061676e+08
QT8(2) sum
QT board

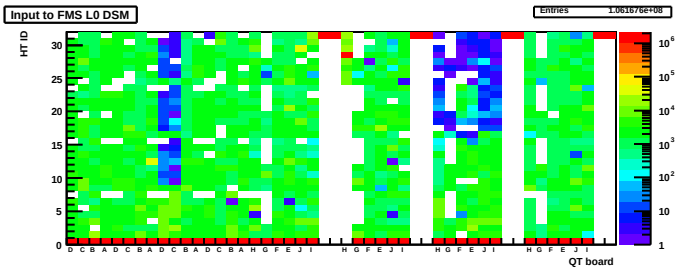

Input to FMS L0 DSM
Entries 1607533
QT8(2) sum - simulated
QT board

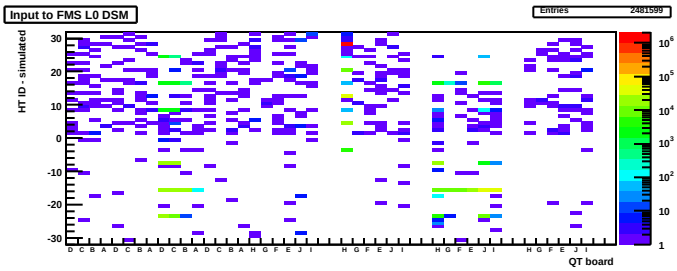

Input to FMS L0 DSM
Entries 1.061676e+08
QT8(3) sum
QT board

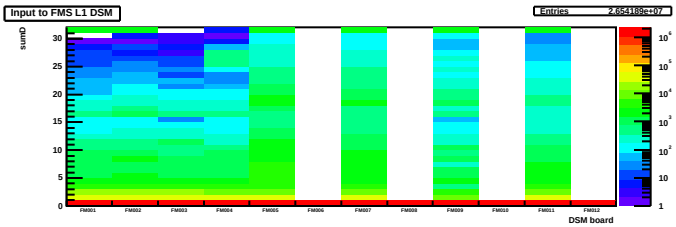

Input to FMS L0 DSM
Entries 2165493
QT8(3) sum - simulated
QT board

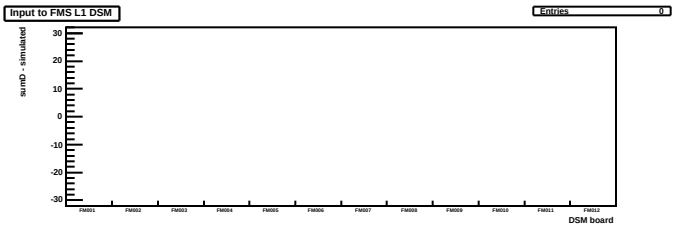

Input to FMS L0 DSM
Entries 1.061676e+08
HT ADC
QT board

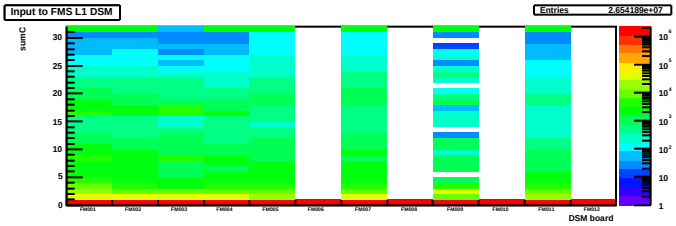

Input to FMS L0 DSM
Entries 253176
HT ADC - simulated
QT board

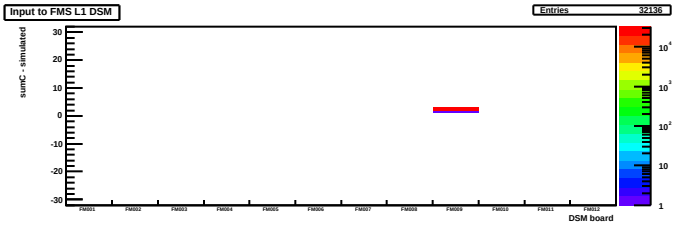

Input to FMS L0 DSM
Entries 1.061676e+08
HT ID
QT board

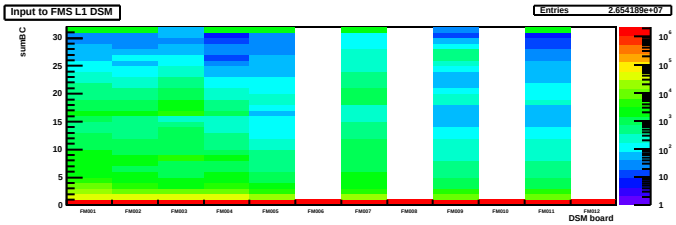

Input to FMS L0 DSM
Entries 2481599
HT ID - simulated
QT board

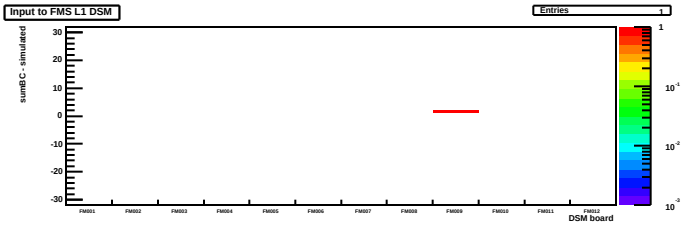

Input to FMS L1 DSM
Entries 2.654189e+07
sumD
DSM board

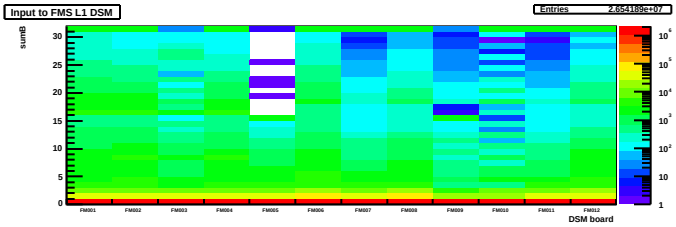

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

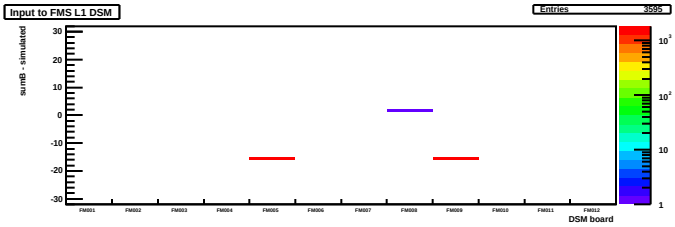

Input to FMS L1 DSM
Entries 2.654189e+07
sumC
DSM board

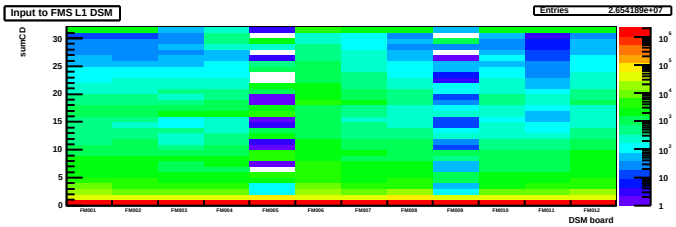

Input to FMS L1 DSM
Entries 32136
sumC - simulated
DSM board

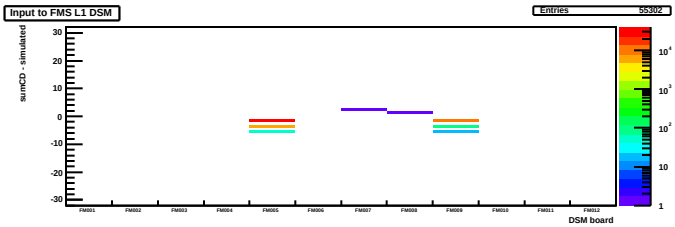

Input to FMS L1 DSM
Entries 2.654189e+07
sumBC
DSM board

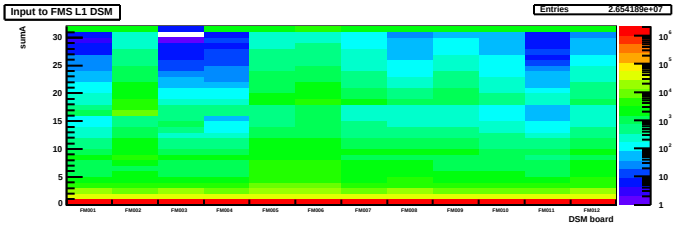

Input to FMS L1 DSM
Entries 1
sumBC - simulated
DSM board

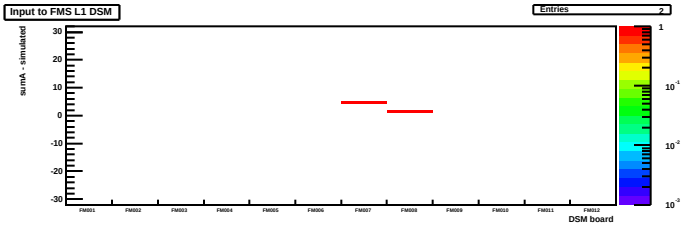

Input to FMS L1 DSM
Entries 2.654189e+07
sumB
DSM board

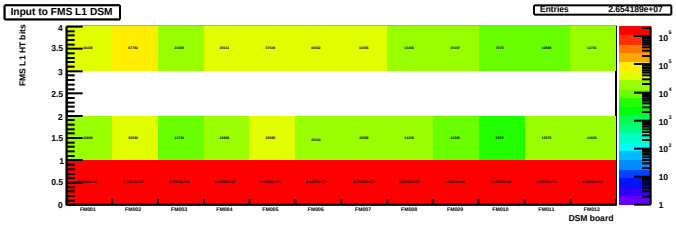

Input to FMS L1 DSM
Entries 3595
sumB - simulated
DSM board

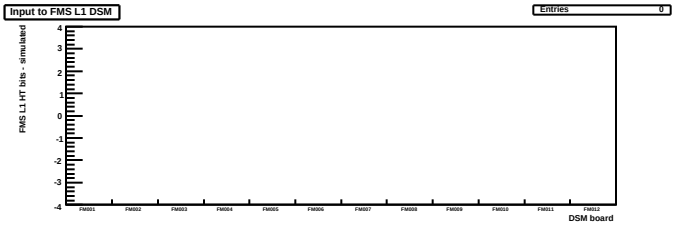

Input to FMS L1 DSM
Entries 2.654189e+07
sumCD
DSM board

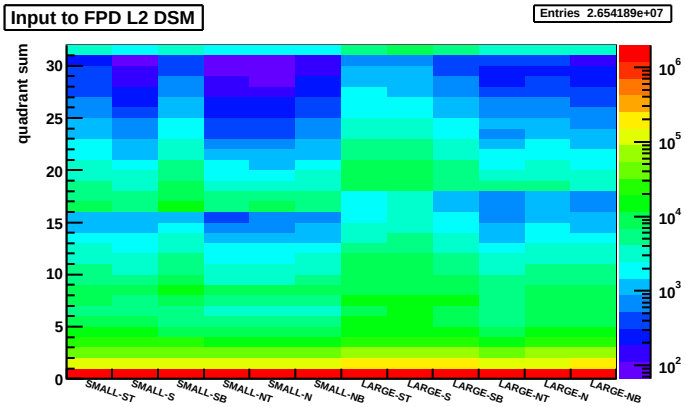

Input to FMS L1 DSM
Entries 55302
sumCD - simulated
DSM board

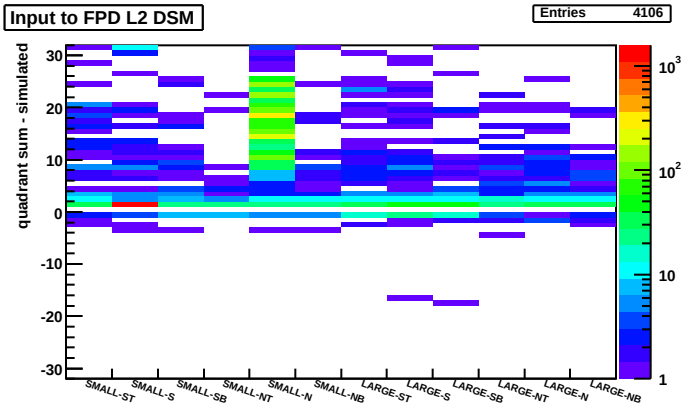

Input to FMS L1 DSM
Entries 2.654189e+07
sumA
DSM board

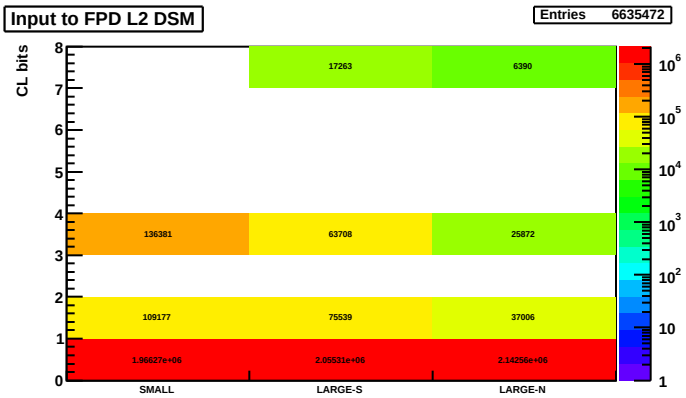

Input to FMS L1 DSM
Entries 2
sumA - simulated
DSM board

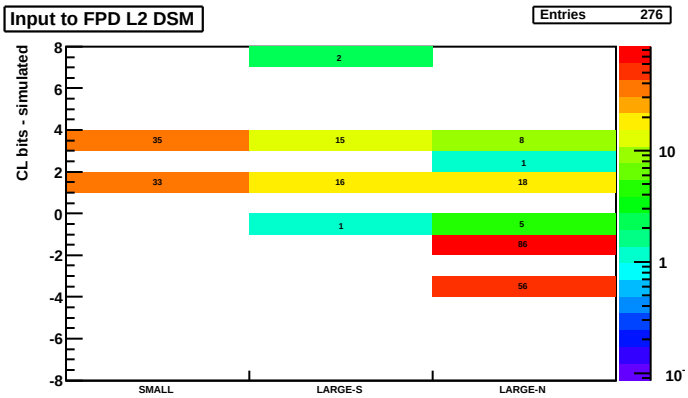

Input to FMS L1 DSM
Entries 2.654189e+07
FMS L1 HT bits
DSM board

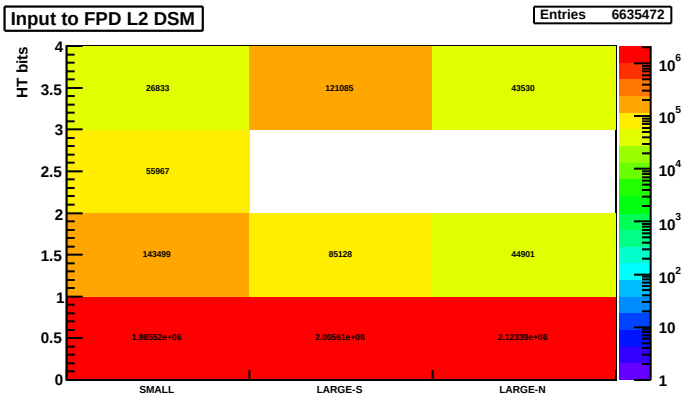

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

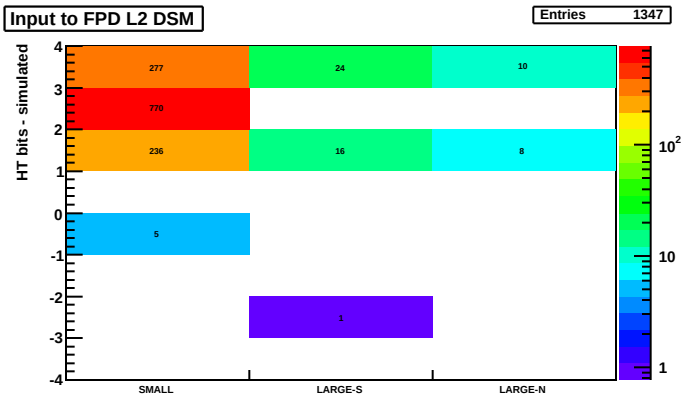

Input to FPD L2 DSM
Entries 2.654189e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

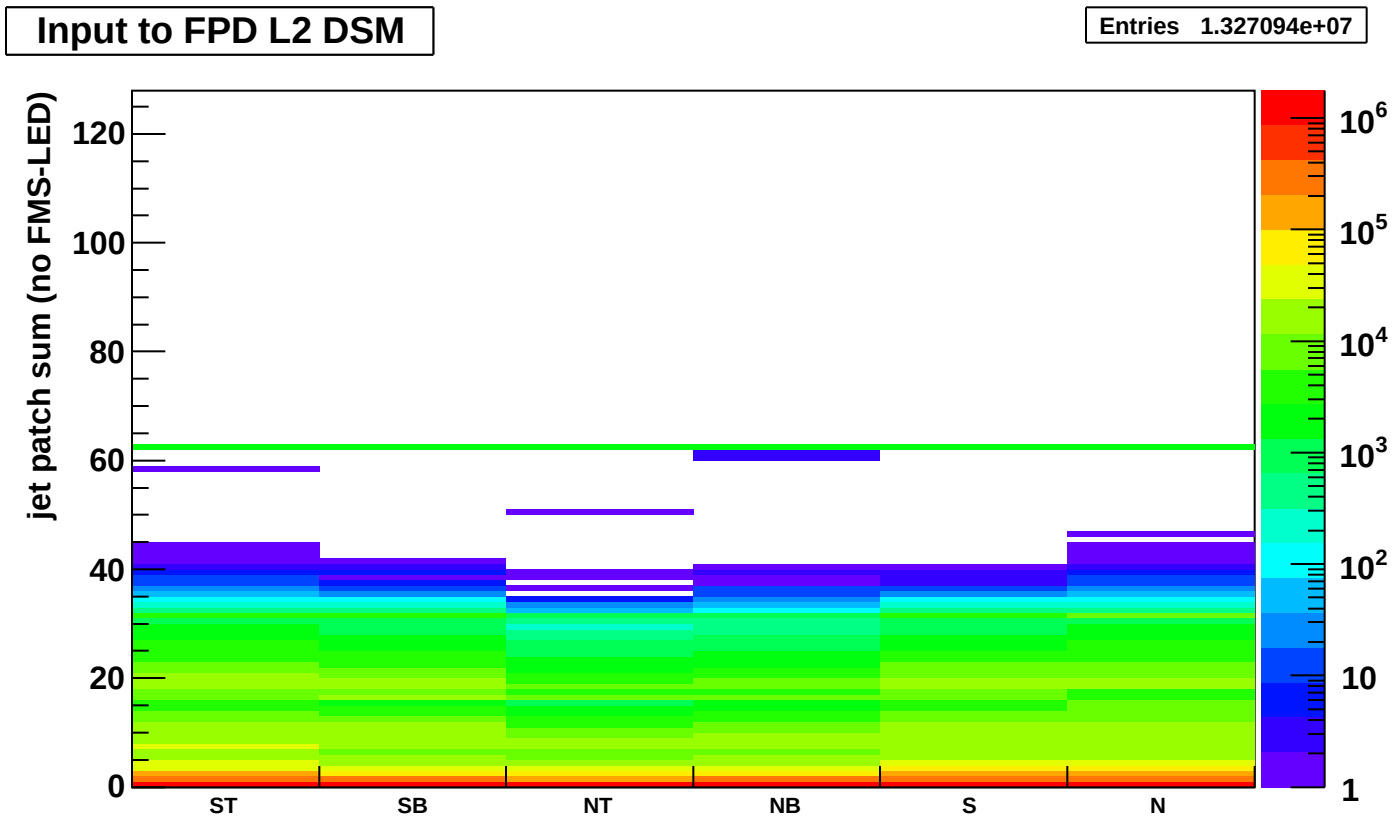

Input to FPD L2 DSM
Entries 4106
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

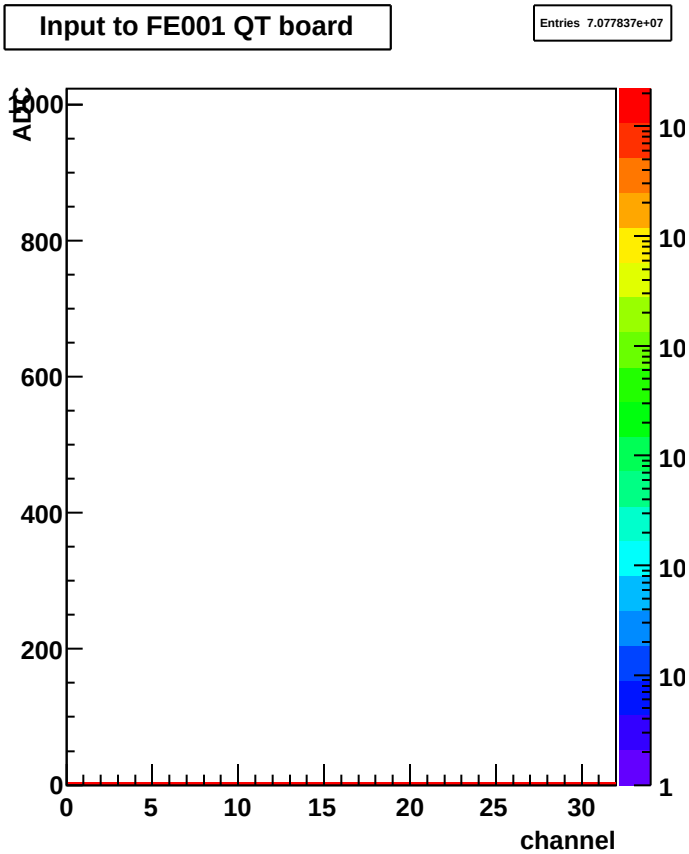

Input to FPD L2 DSM
Entries 6635472
CL bits
17263
6390
136381
63708
25872
109177
75539
37006
1.96627e+06
2.05531e+06
2.14256e+06
SMALL
LARGE-S
LARGE-N

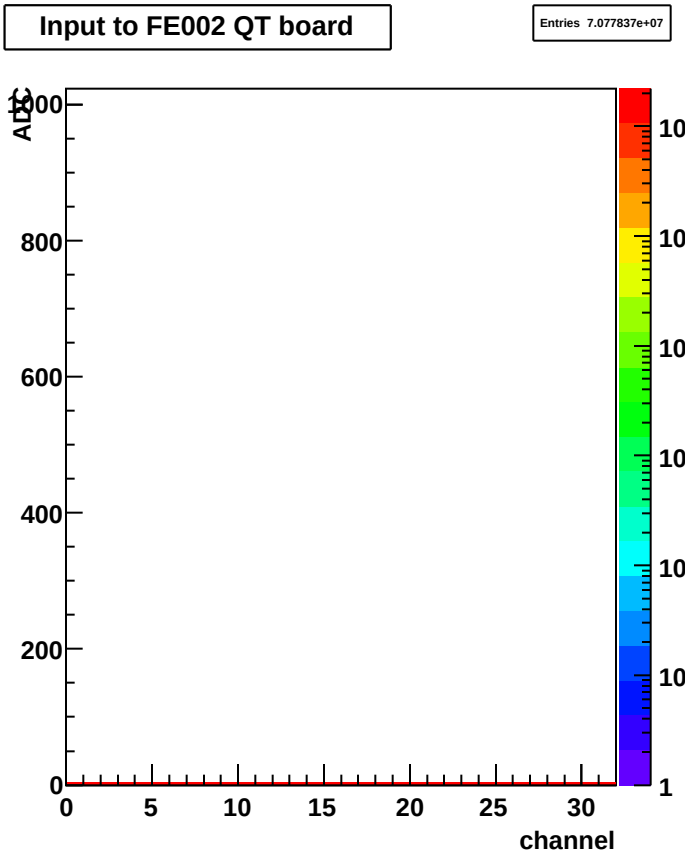

Input to FPD L2 DSM
Entries 276
CL bits - simulated
2
35
15
8
1
33
16
18
1
5
86
56
SMALL
LARGE-S
LARGE-N

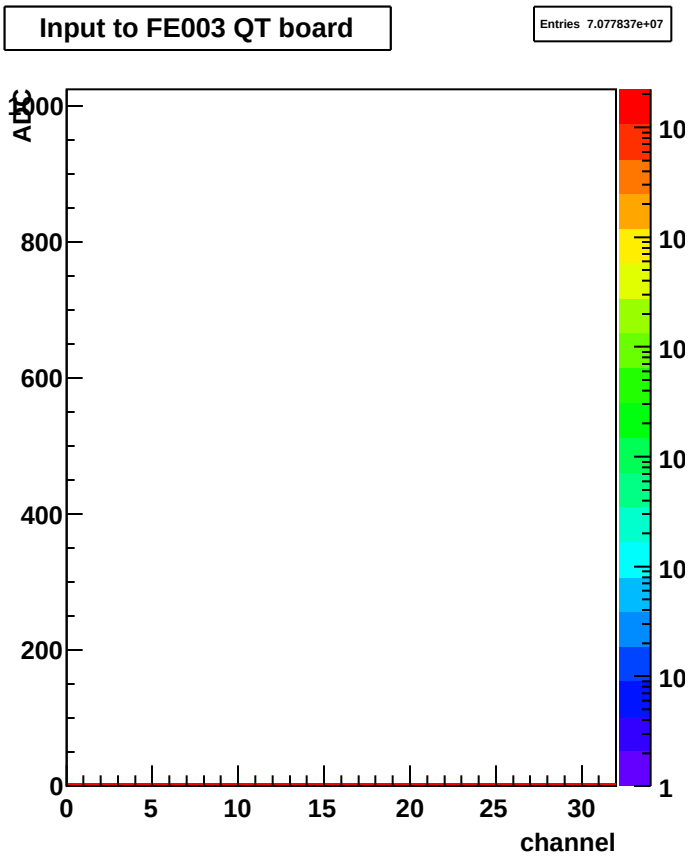

Input to FPD L2 DSM
Entries 6635472
HT bits
26833
121085
43530
55967
143499
85128
44901
1.98552e+06
2.00561e+06
2.12339e+06
SMALL
LARGE-S
LARGE-N

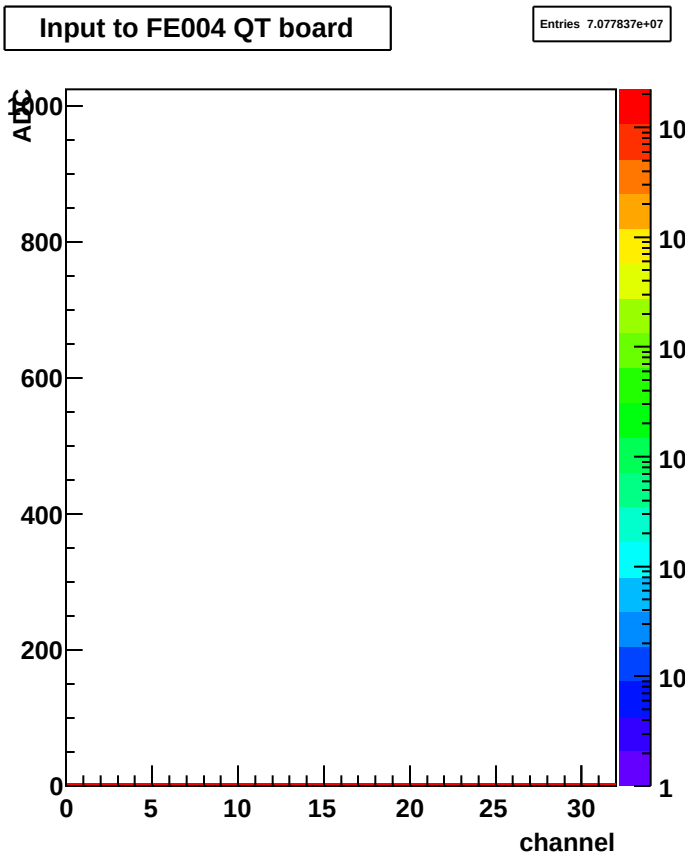

Input to FPD L2 DSM
Entries 1347
HT bits - simulated
277
24
10
770
236
16
8
5
1
SMALL
LARGE-S
LARGE-N

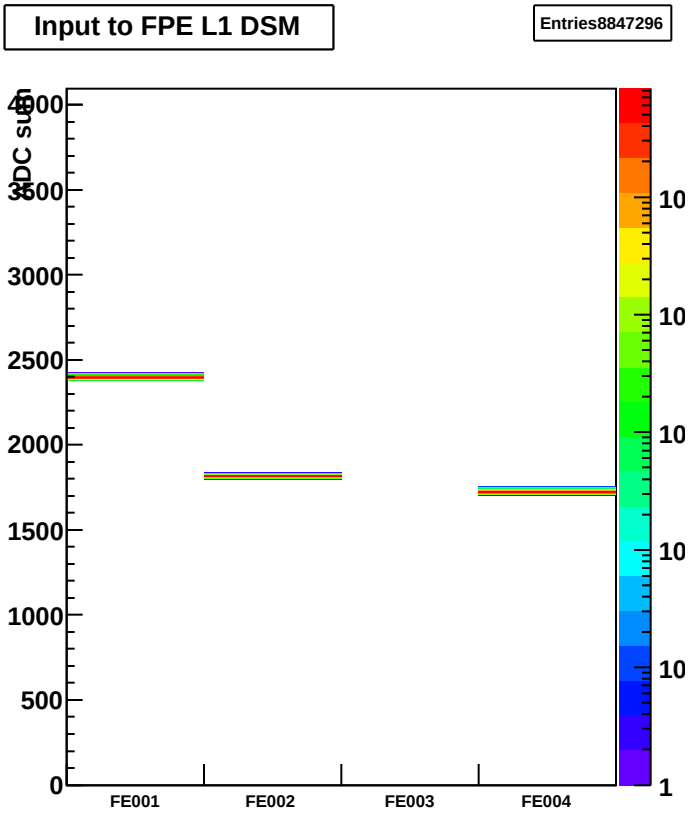

Input to FPD L2 DSM
Entries 1.327094e+07
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5
10^6

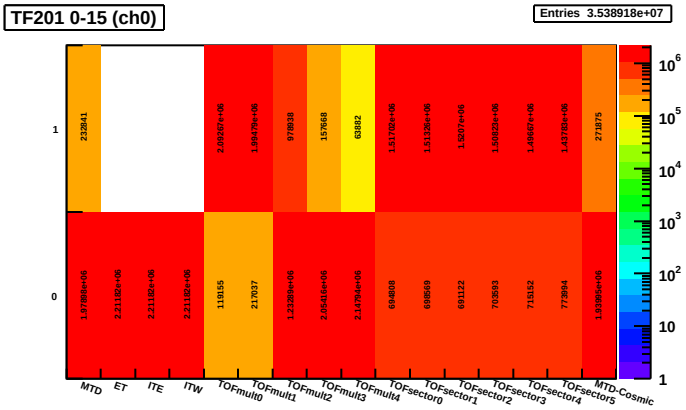

Input to FE001 QT board
Entries 7.077837e+07
ADC
channel

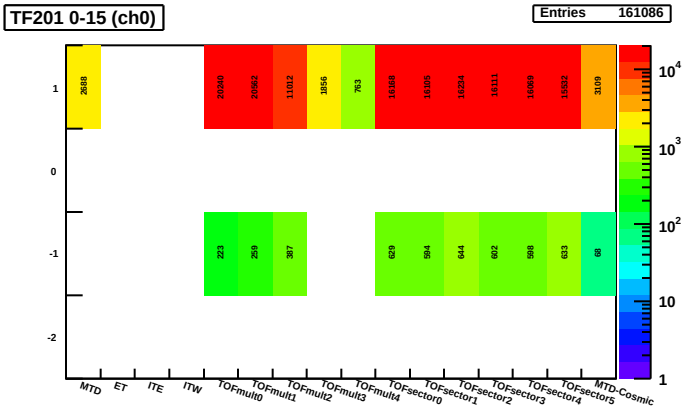

Input to FE002 QT board
Entries 7.077837e+07
ADC
channel

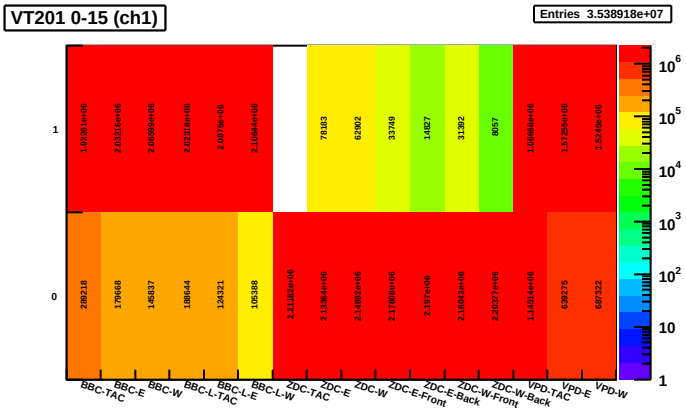

Input to FE003 QT board
Entries 7.077837e+07
ADC
channel

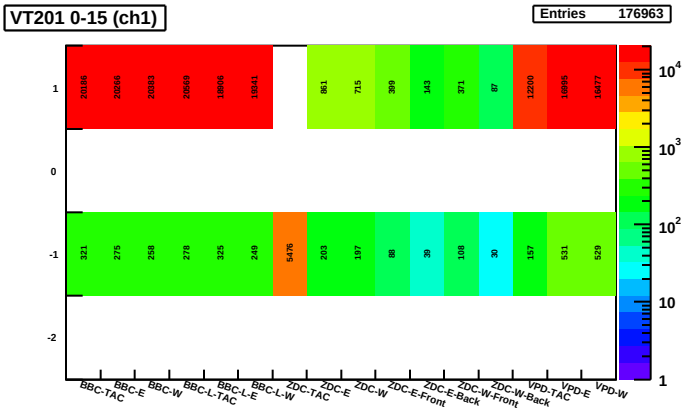

Input to FE004 QT board
Entries 7.077837e+07
ADC
channel

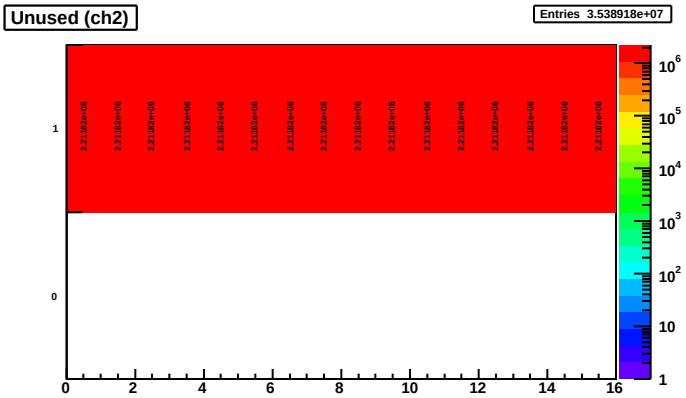

Input to FPE L1 DSM
Entries8847296
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

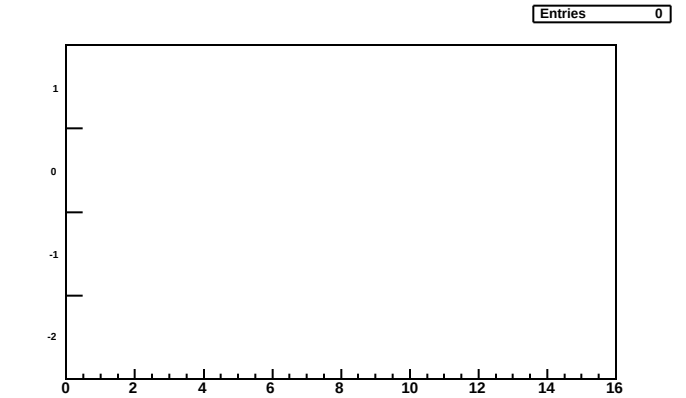

TF201 0-15 (ch0)
Entries 3.538918e+07
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

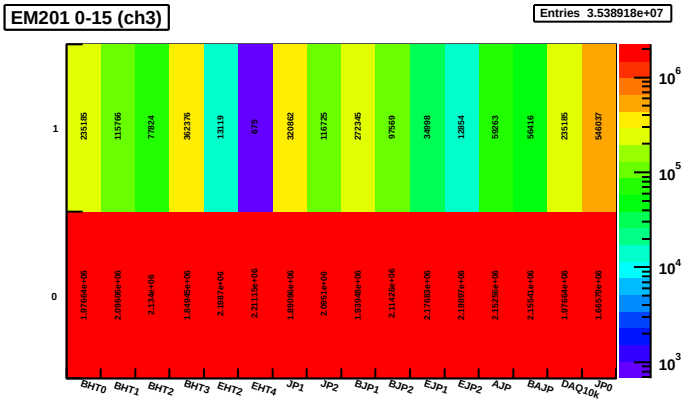

TF201 0-15 (ch0)
Entries 161086
MTD ET ITE ITW TOFmult0 TOFmult1 TOFmult2 TOFmult3 TOFmult4 TOFsector0 TOFsector1 TOFsector2 TOFsector3 TOFsector4 TOFsector5 MTD-Cosmic

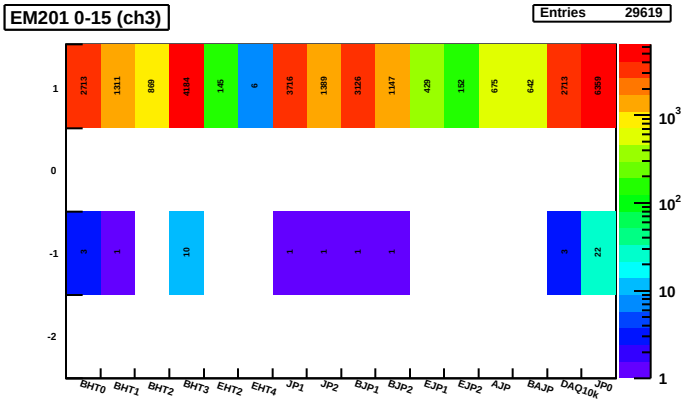

VT201 0-15 (ch1)
Entries 3.538918e+07
BBC-TAC BBC-E BBC-W BBC-L-TAC BBC-L-E BBC-L-W ZDC-TAC ZDC-E ZDC-W ZDC-E-Front ZDC-E-Back ZDC-W-Front ZDC-W-Back VPD-TAC VPD-E VPD-W


VT201 0-15 (ch1)
Entries 176963
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

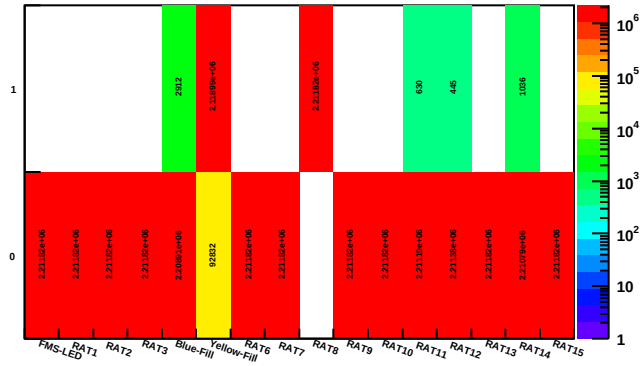

Unused (ch2)
Entries 3.538918e+07

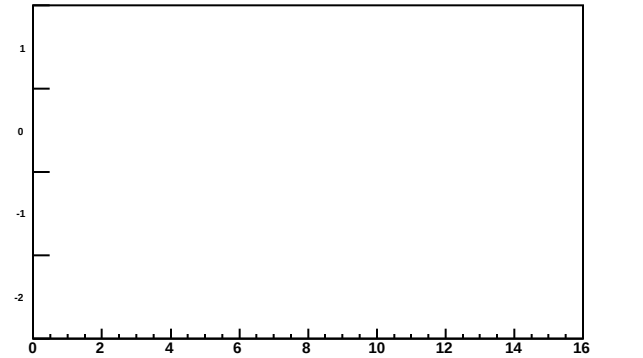

Entries 0


EM201 0-15 (ch3)
Entries 3.538918e+07
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

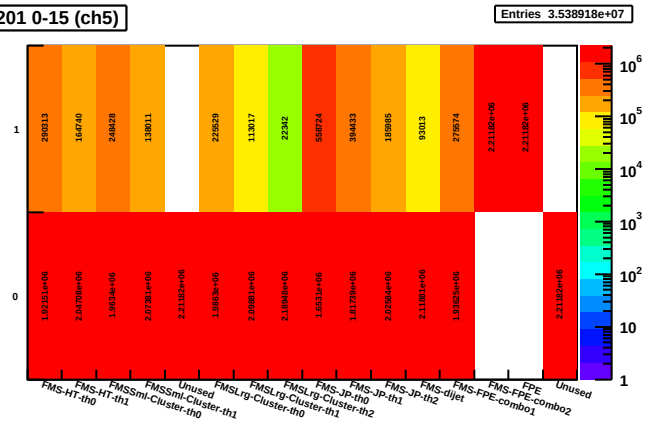

EM201 0-15 (ch3)
Entries 29619
BHT0 BHT1 BHT2 BHT3 EHT2 EHT4 JP1 JP2 BJP1 BJP2 EJP1 EJP2 AJP BAJP DAQ10k JP0

RAT board (ch4)

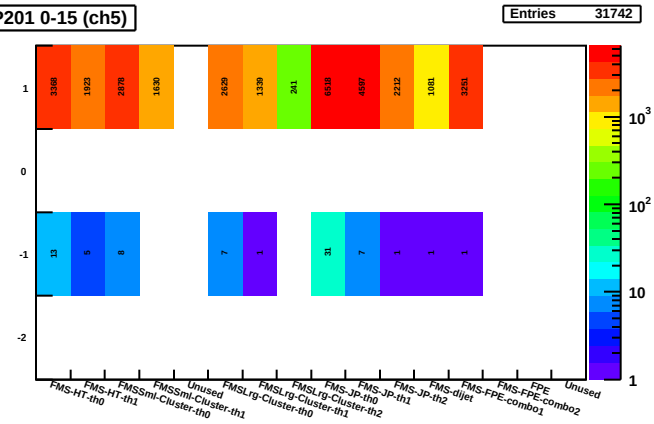




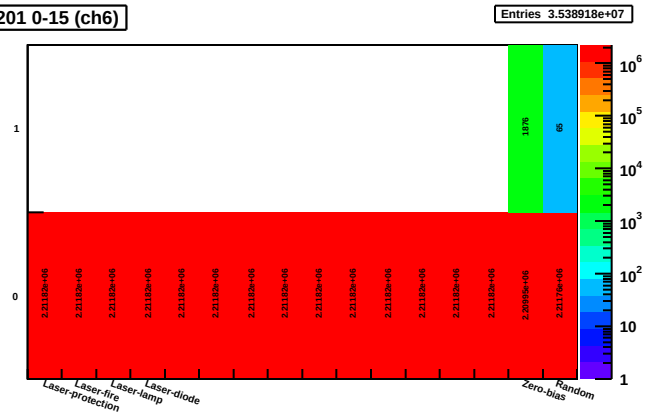
FP201 0-15 (ch5)

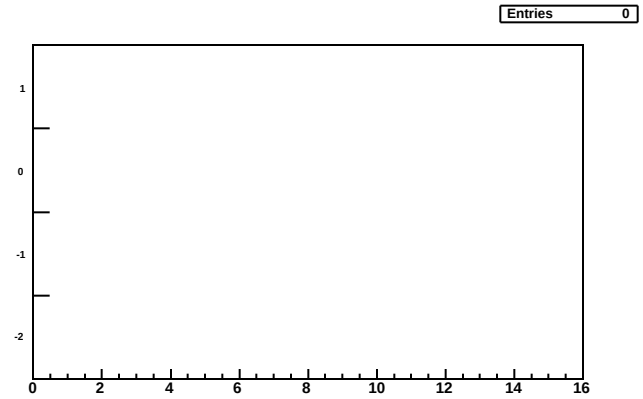
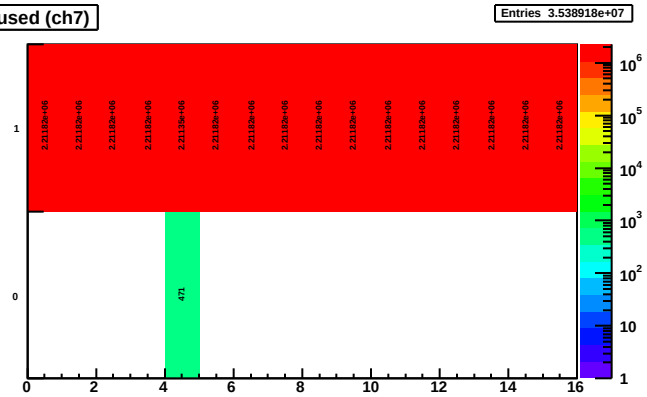
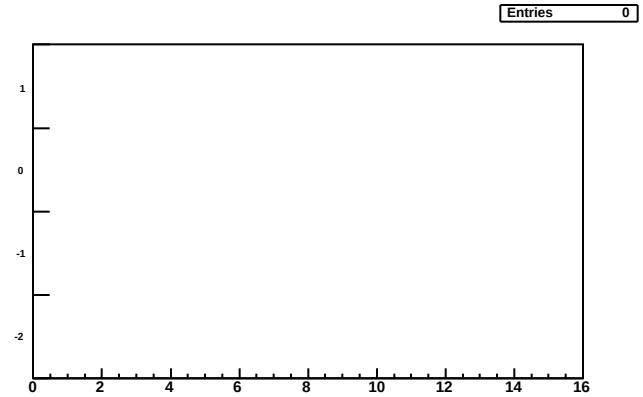


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)