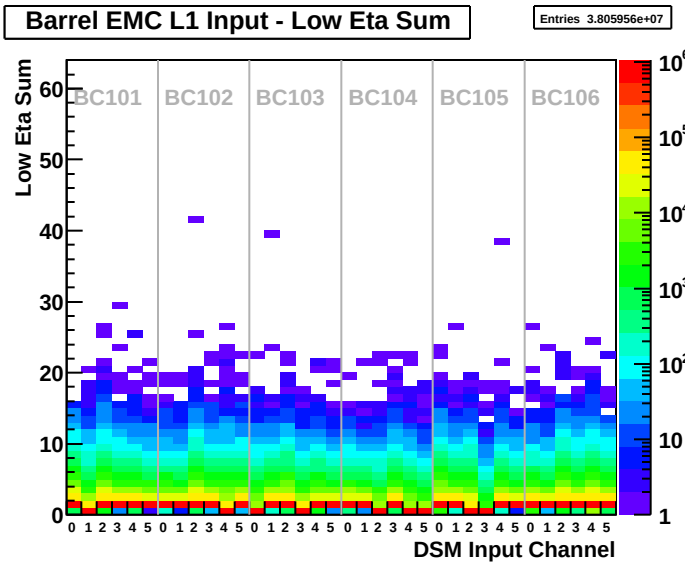
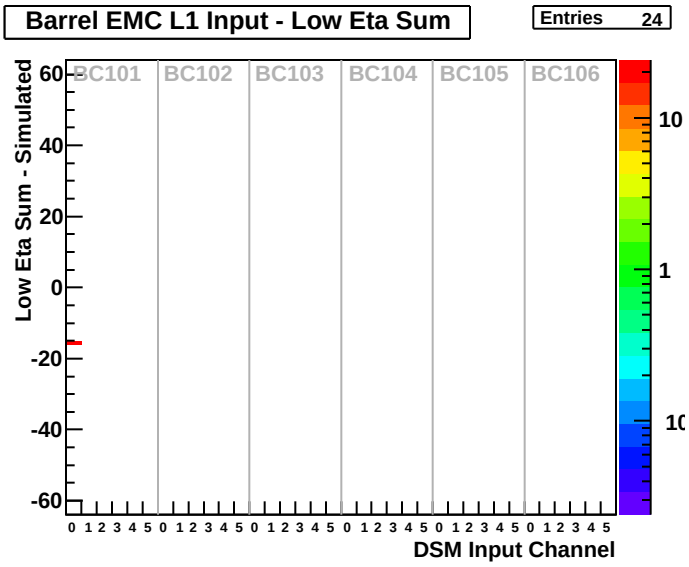
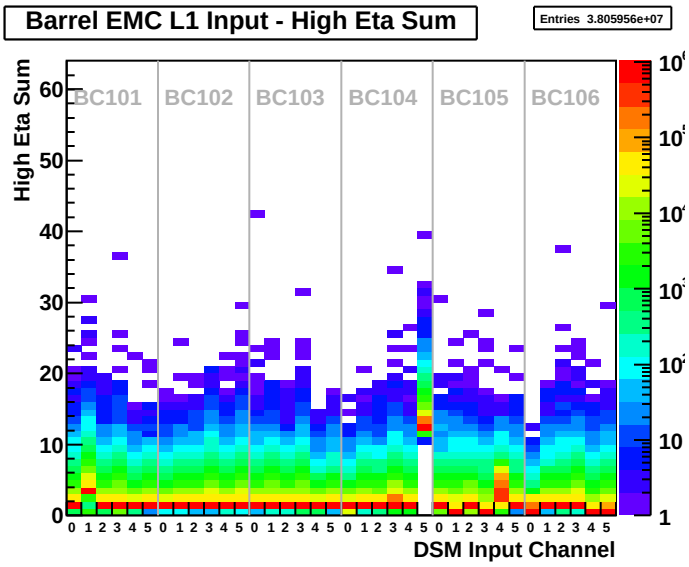
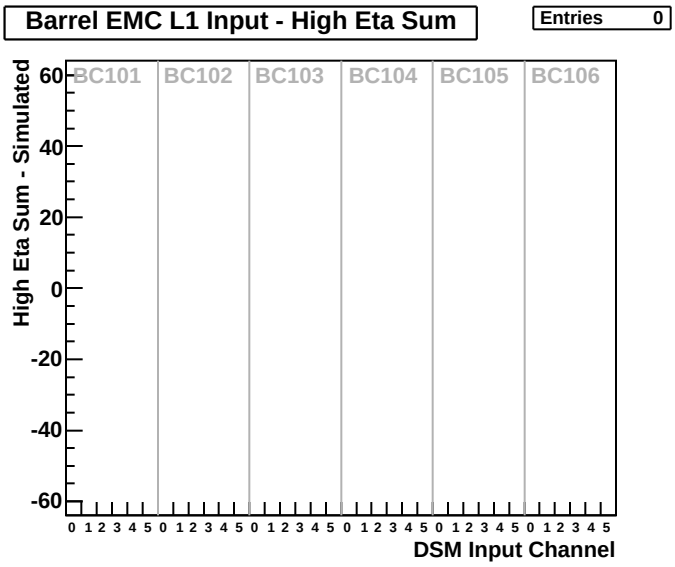
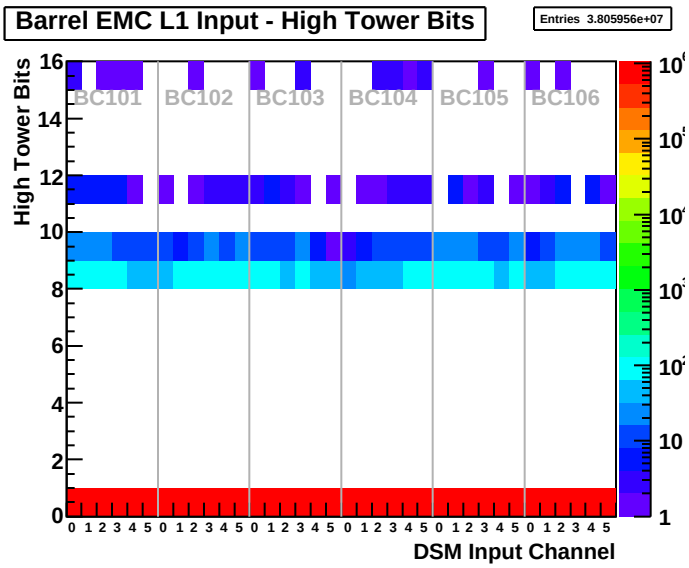
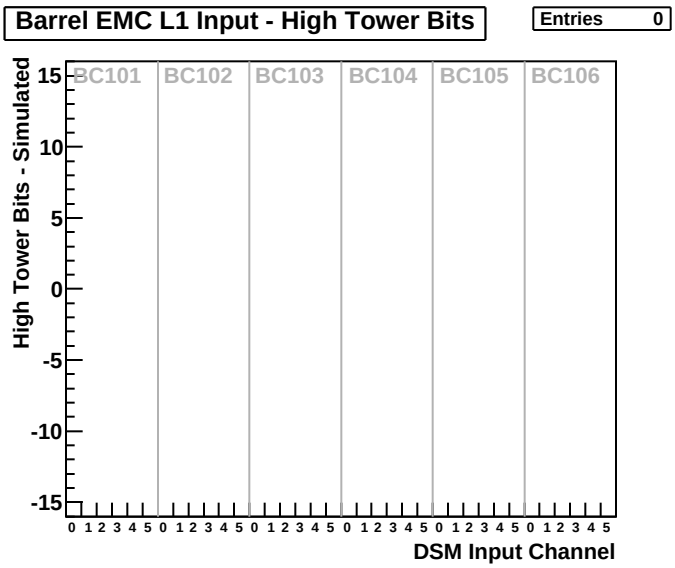

Barrel EMC L1 Input - Low Eta Sum
Entries 3.805956e+07
Low Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

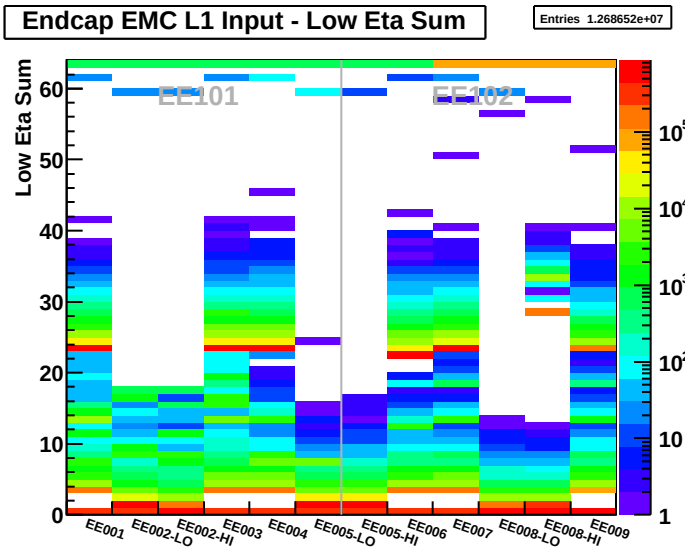

Barrel EMC L1 Input - Low Eta Sum
Entries 24
Low Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

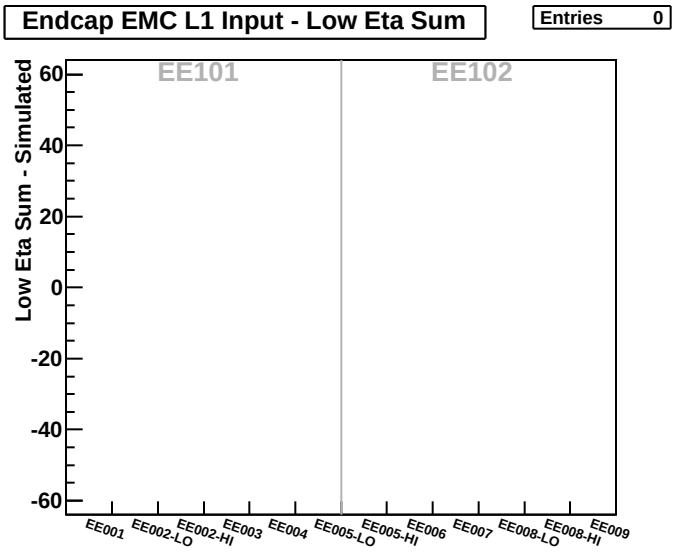

Barrel EMC L1 Input - High Eta Sum
Entries 3.805956e+07
High Eta Sum
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

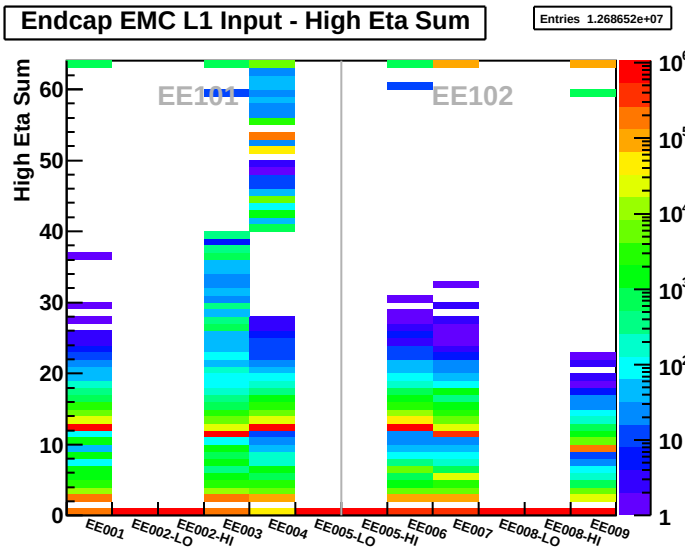

Barrel EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

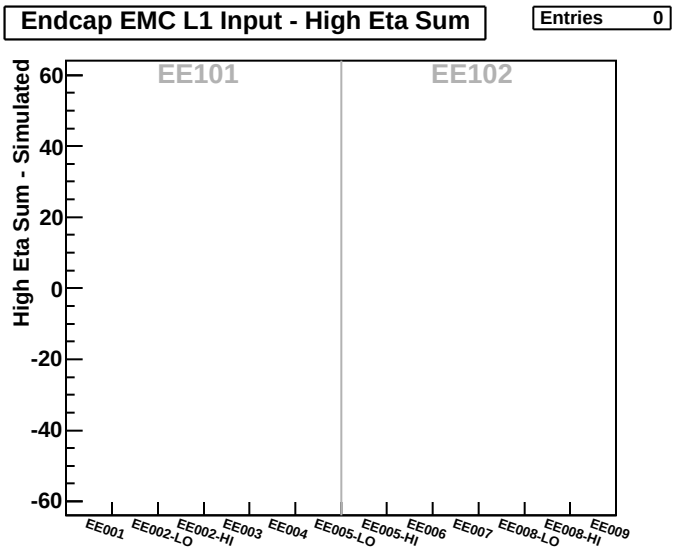

Barrel EMC L1 Input - High Tower Bits
Entries 3.805956e+07
High Tower Bits
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

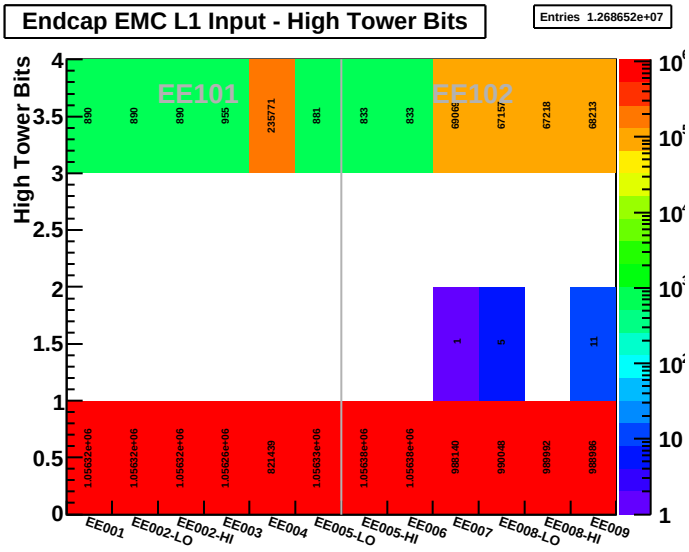

Barrel EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
BC101
BC102
BC103
BC104
BC105
BC106
DSM Input Channel

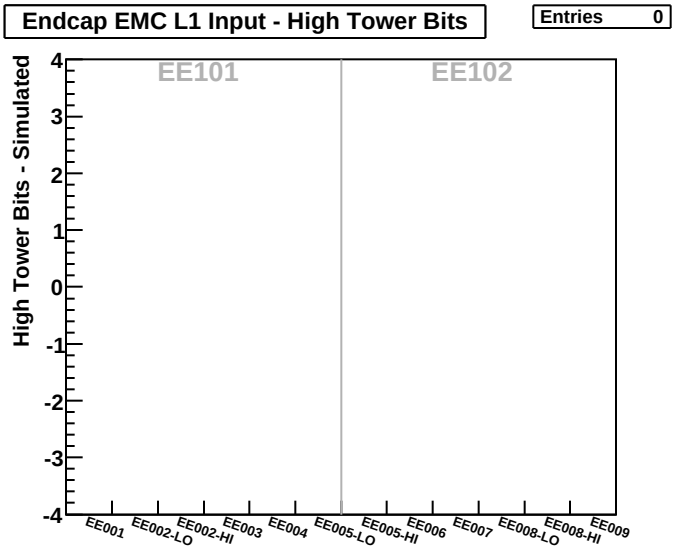

Endcap EMC L1 Input - Low Eta Sum
Entries 1.268652e+07
Low Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

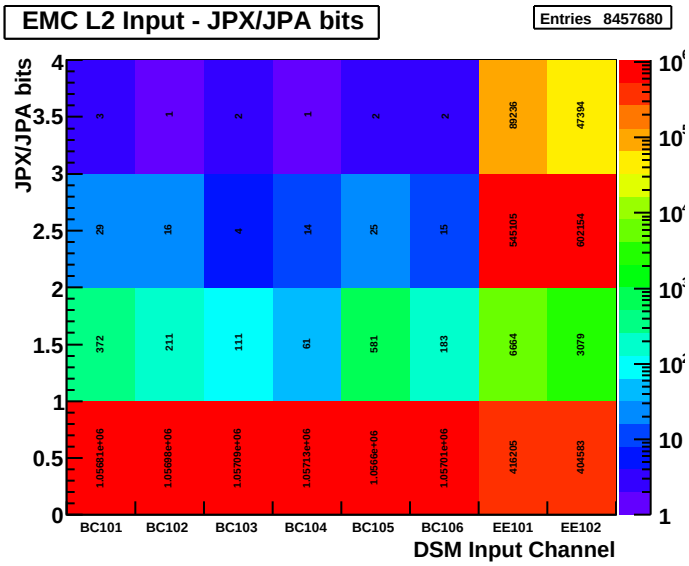

Endcap EMC L1 Input - Low Eta Sum
Entries 0
Low Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

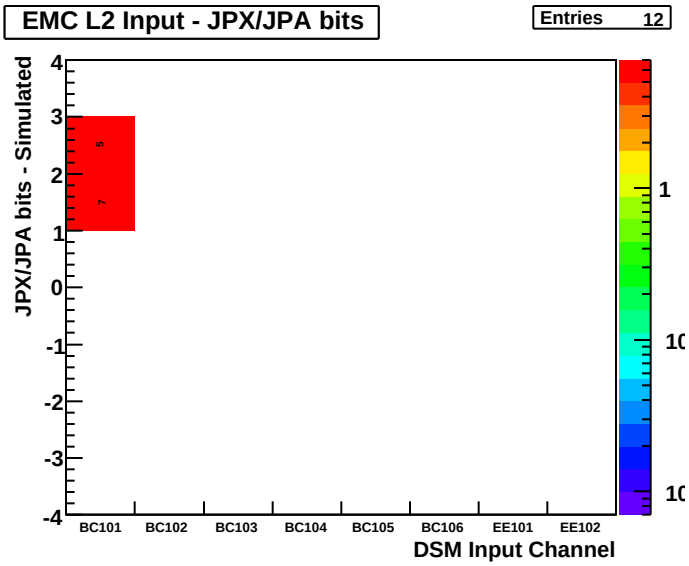

Endcap EMC L1 Input - High Eta Sum
Entries 1.268652e+07
High Eta Sum
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

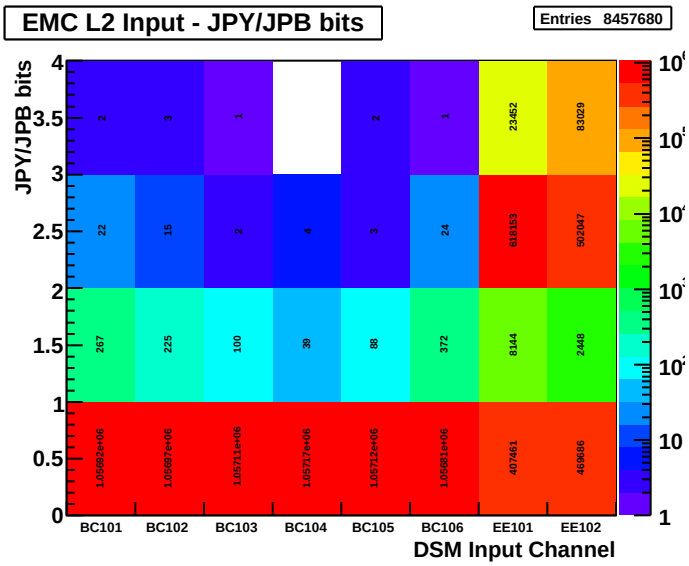

Endcap EMC L1 Input - High Eta Sum
Entries 0
High Eta Sum - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

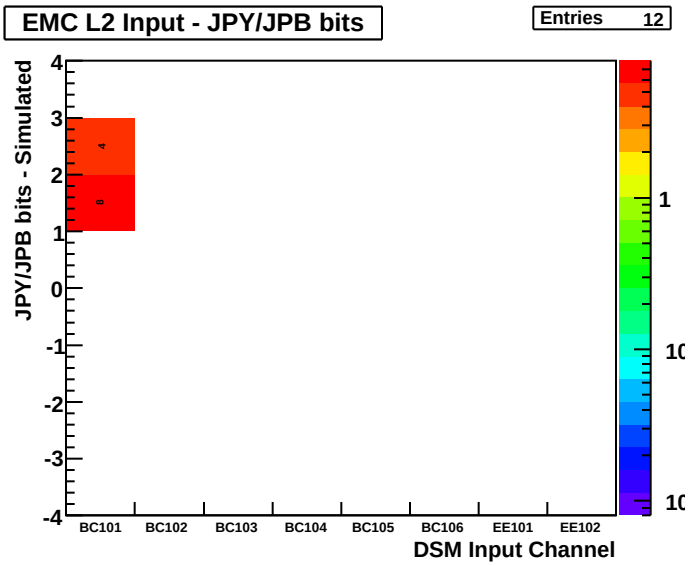

Endcap EMC L1 Input - High Tower Bits
Entries 1.268652e+07
High Tower Bits
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

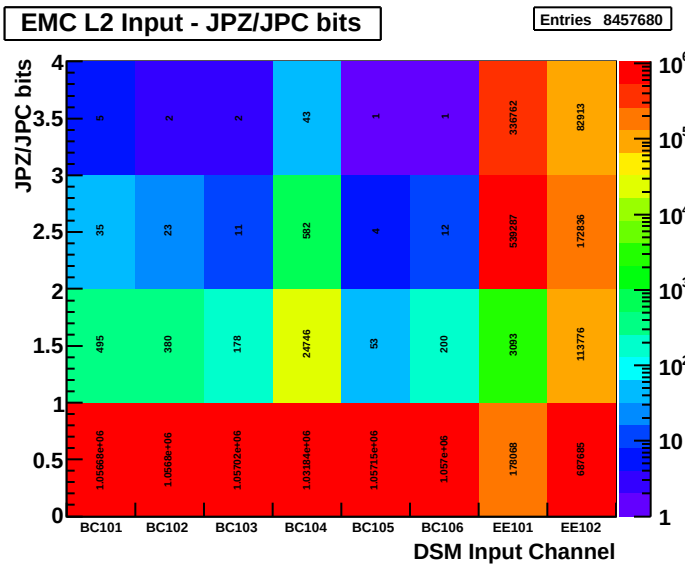

Endcap EMC L1 Input - High Tower Bits
Entries 0
High Tower Bits - Simulated
EE101
EE102
EE001 EE002-LO EE002-HI EE003 EE004 EE005-LO EE005-HI EE006 EE007 EE008-LO EE008-HI EE009

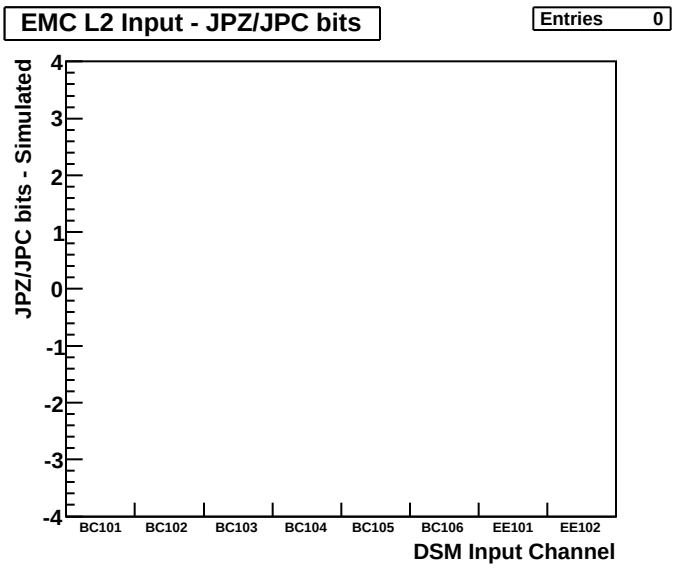

EMC L2 Input - JPX/JPA bits
Entries 8457680
JPX/JPA bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
3 1 2 1 2 2 89236 47394
29 16 4 14 25 15 545105 602154
372 211 111 61 581 183 6664 3079
1.05681e+06 1.05688e+06 1.05709e+06 1.05713e+06 1.0566e+06 1.05701e+06 416205 404583

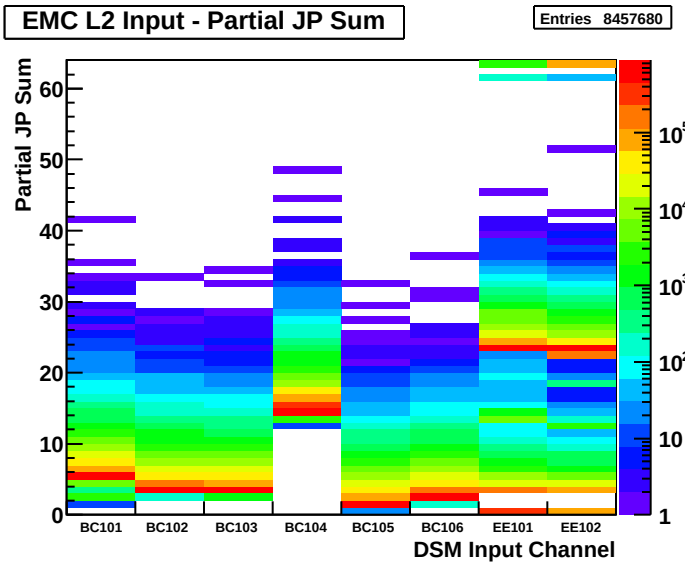

EMC L2 Input - JPX/JPA bits
Entries 12
JPX/JPA bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
5
7

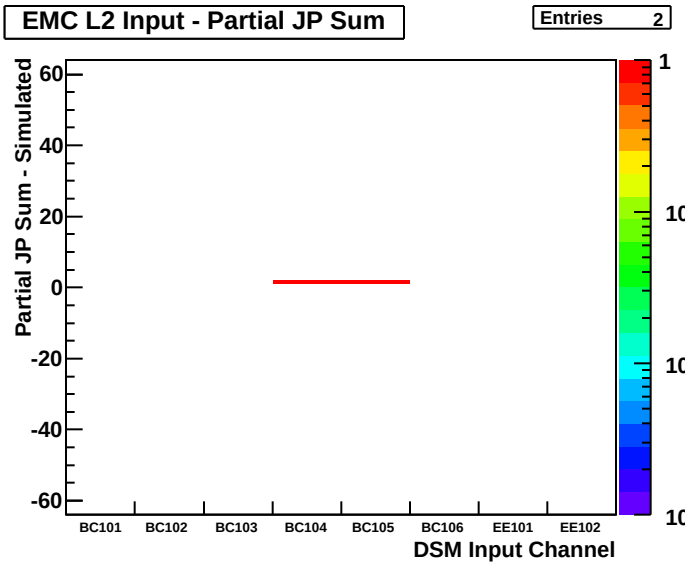

EMC L2 Input - JPY/JPB bits
Entries 8457680
JPY/JPB bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
2 3 1 2 1 23452 83029
22 15 2 4 3 24 618153 502047
267 225 100 39 88 372 8144 2448
1.05682e+06 1.05687e+06 1.05711e+06 1.05717e+06 1.05712e+06 1.05681e+06 407461 469686

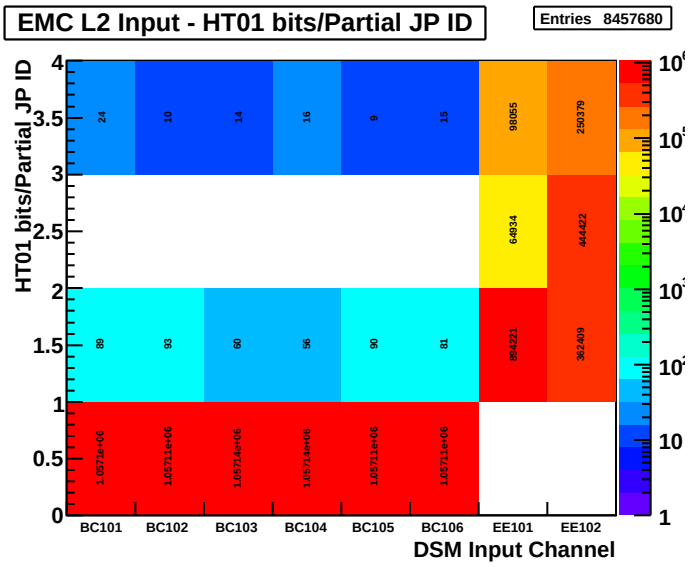

EMC L2 Input - JPY/JPB bits
Entries 12
JPY/JPB bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
4
8

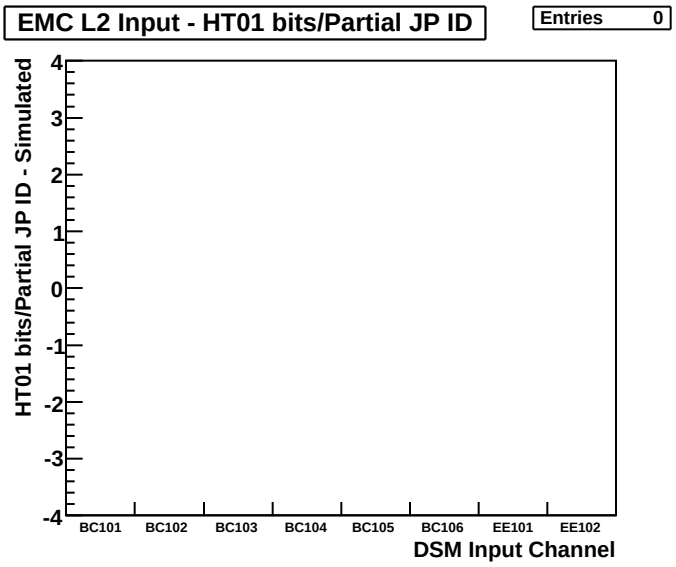

EMC L2 Input - JPZ/JPC bits
Entries 8457680
JPZ/JPC bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102
5 2 2 43 1 1 336762 82913
35 23 11 582 4 12 539287 172836
495 380 178 24746 53 200 3093 113776
1.05668e+06 1.0568e+06 1.05702e+06 1.03184e+06 1.05715e+06 1.057e+06 176068 687685

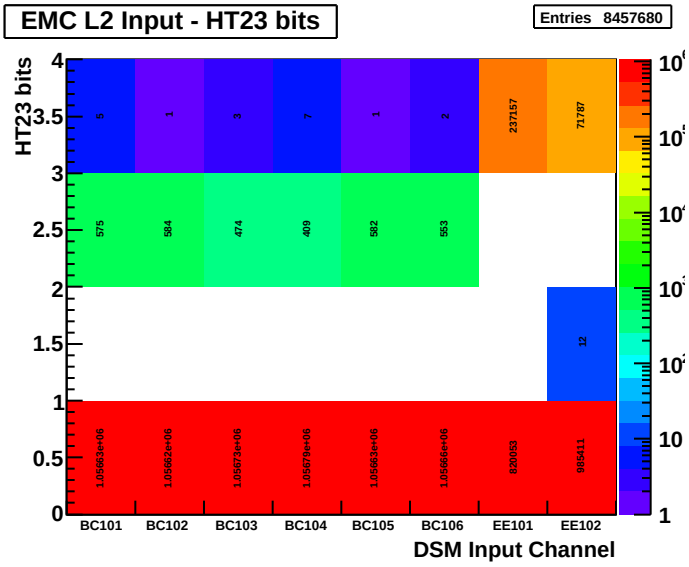

EMC L2 Input - JPZ/JPC bits
Entries 0
JPZ/JPC bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

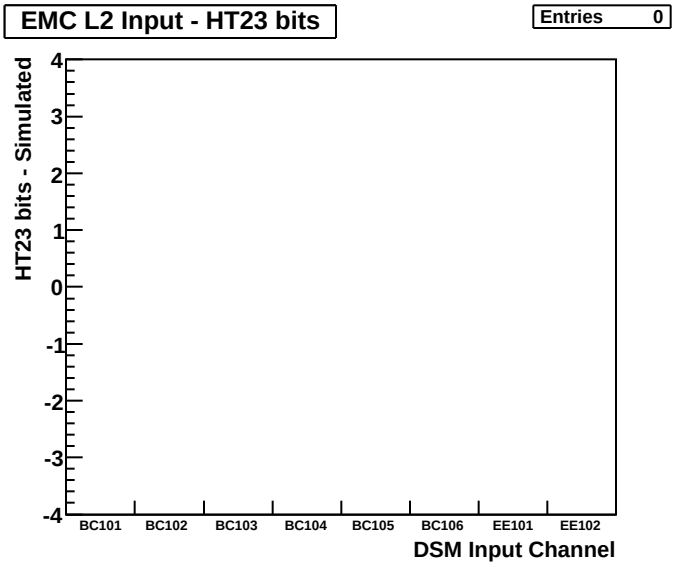

EMC L2 Input - Partial JP Sum
Entries 8457680
Partial JP Sum
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

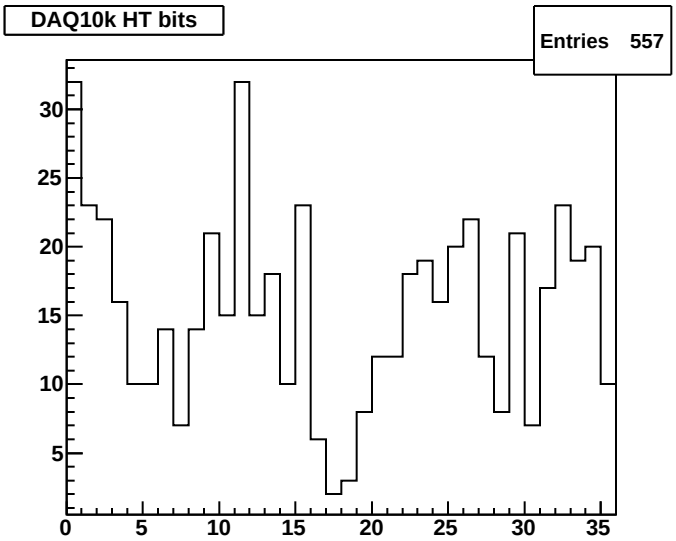

EMC L2 Input - Partial JP Sum
Entries 2
Partial JP Sum - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

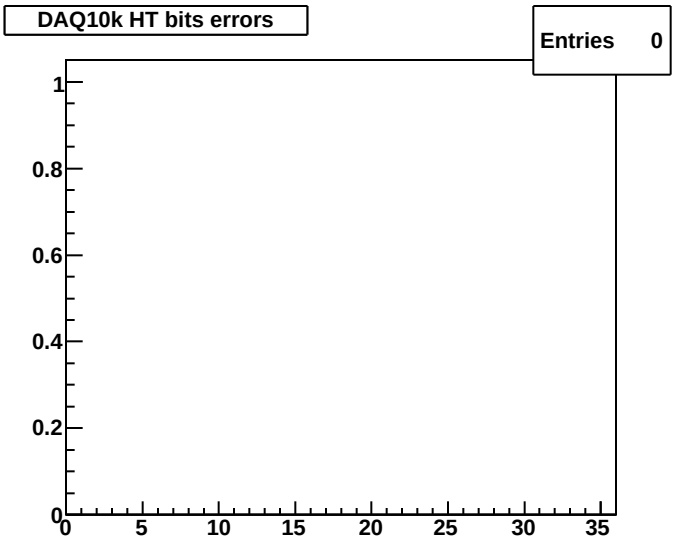

EMC L2 Input - HT01 bits/Partial JP ID
Entries 8457680
HT01 bits/Partial JP ID
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

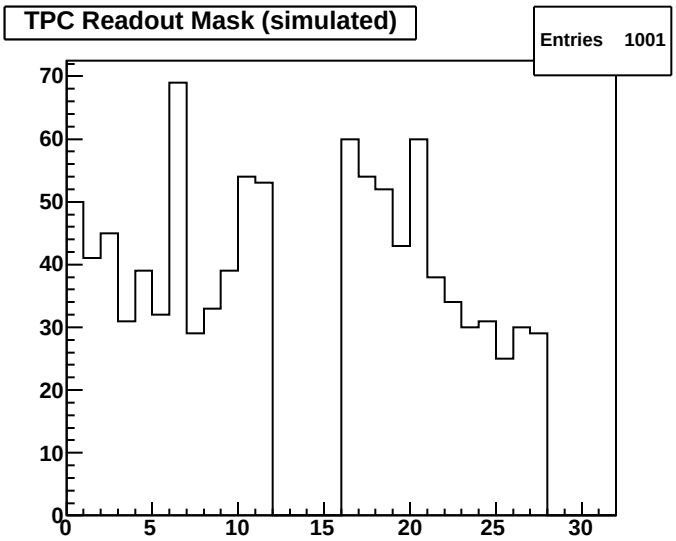

EMC L2 Input - HT01 bits/Partial JP ID
Entries 0
HT01 bits/Partial JP ID - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

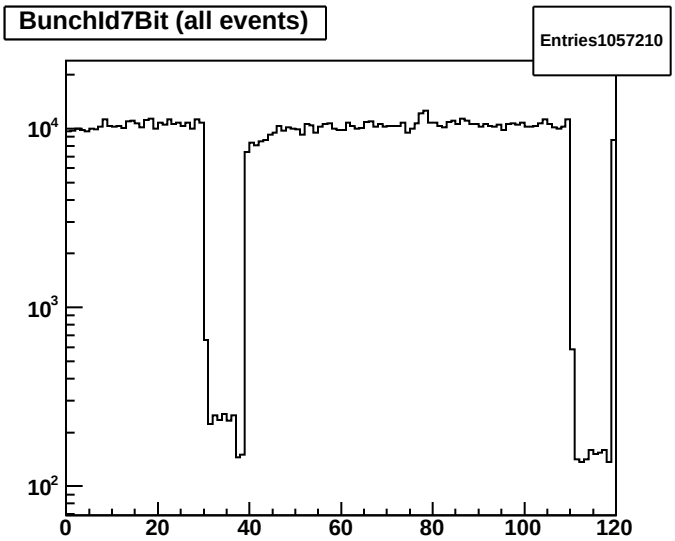

EMC L2 Input - HT23 bits
Entries 8457680
HT23 bits
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

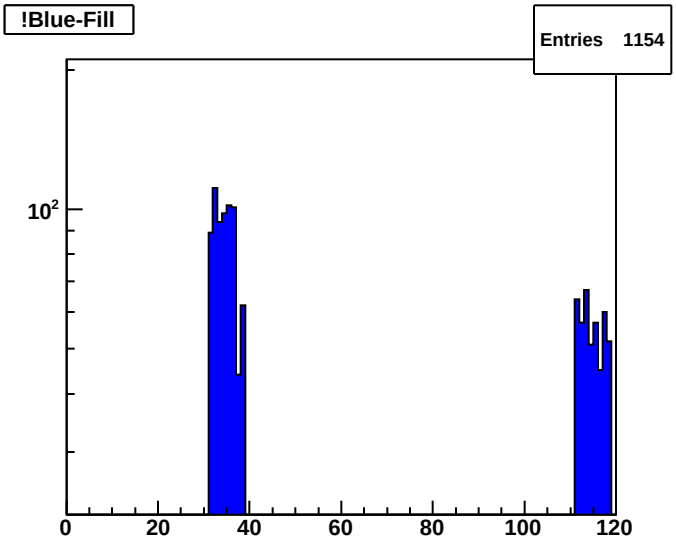

EMC L2 Input - HT23 bits
Entries 0
HT23 bits - Simulated
DSM Input Channel
BC101 BC102 BC103 BC104 BC105 BC106 EE101 EE102

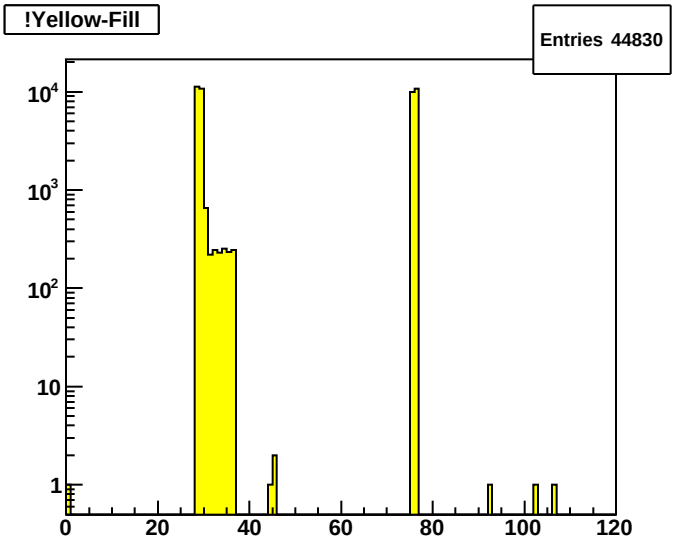

DAQ10k HT bits
Entries 557

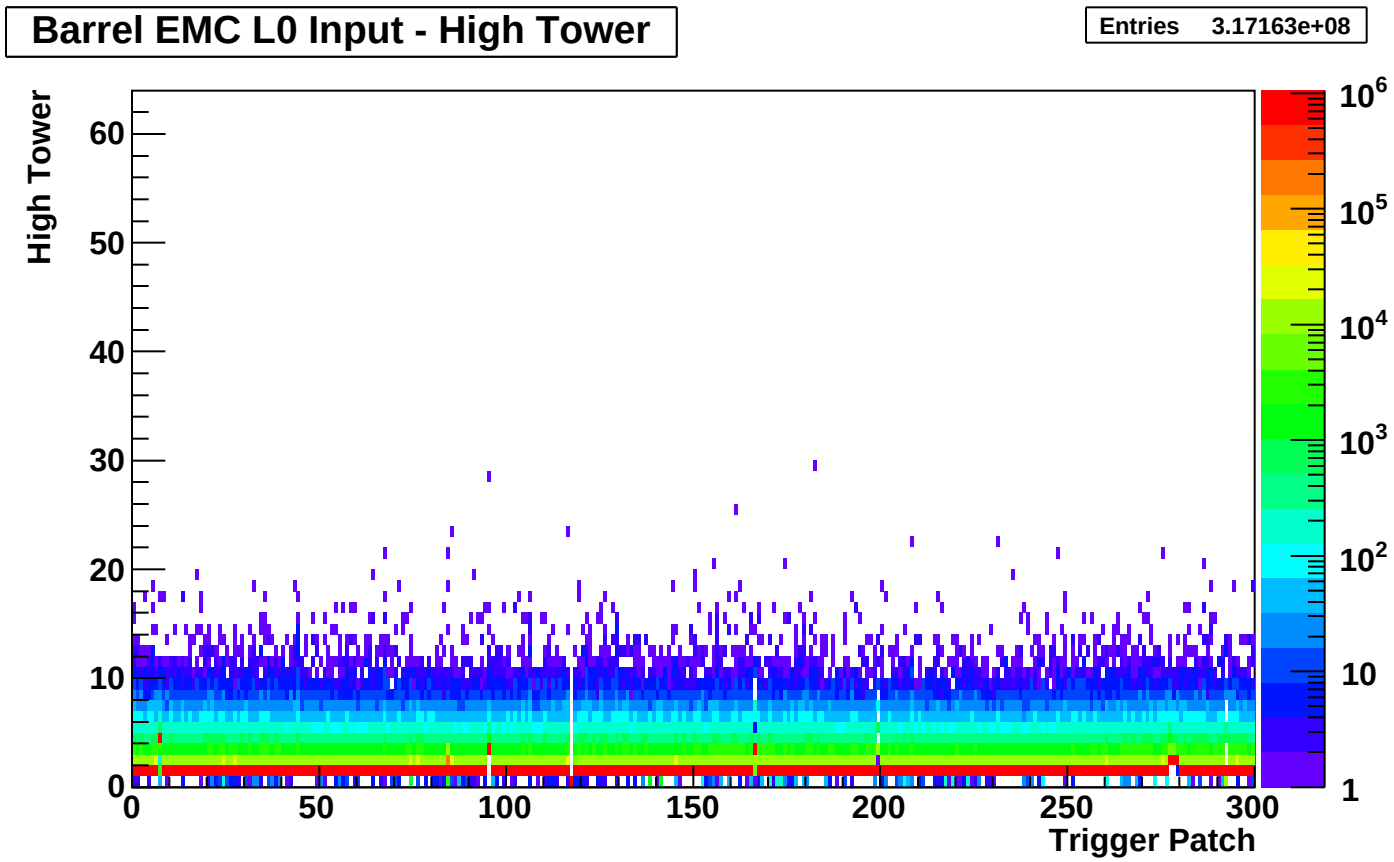

DAQ10k HT bits errors
Entries 0

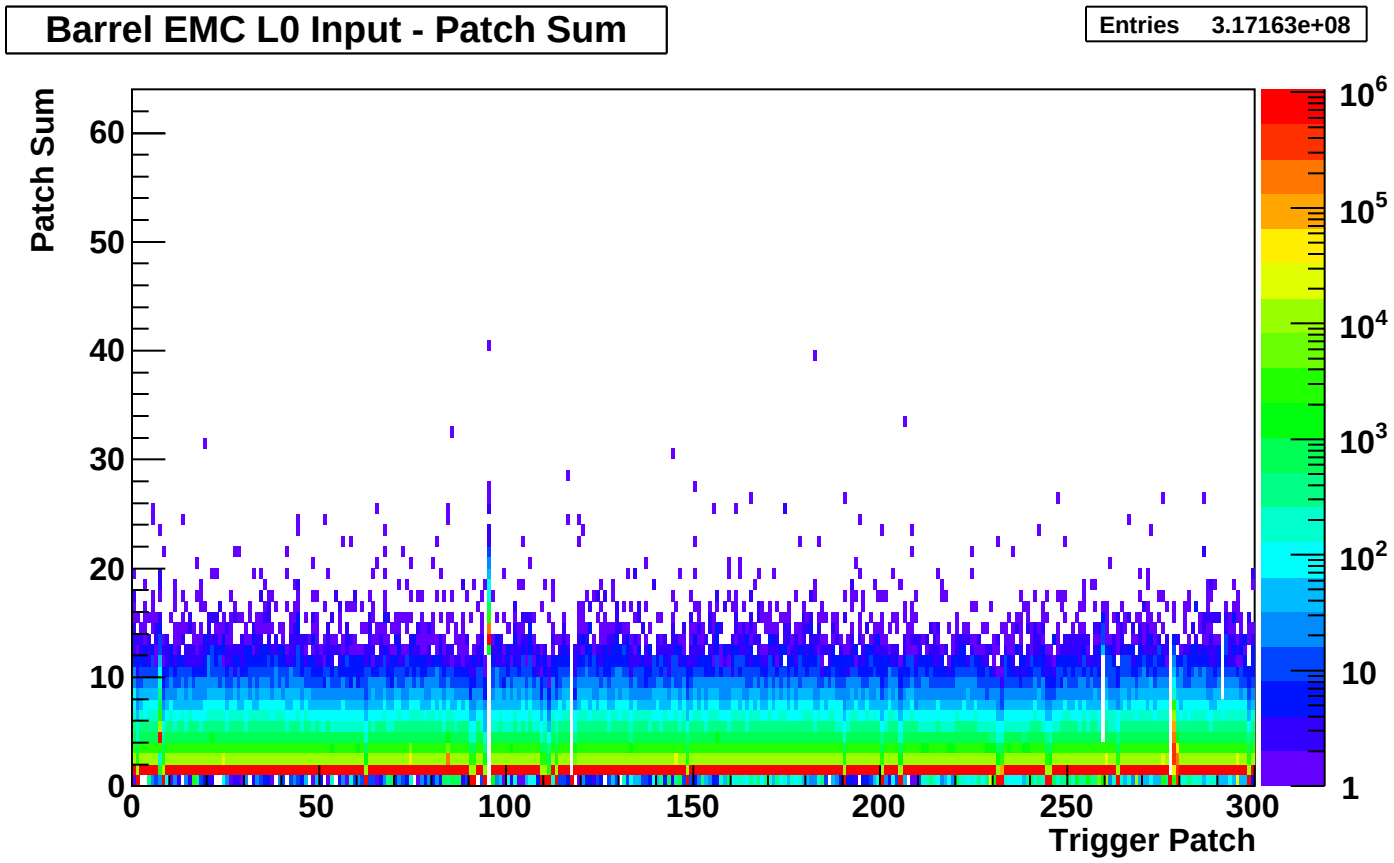

TPC Readout Mask (simulated)
Entries 1001

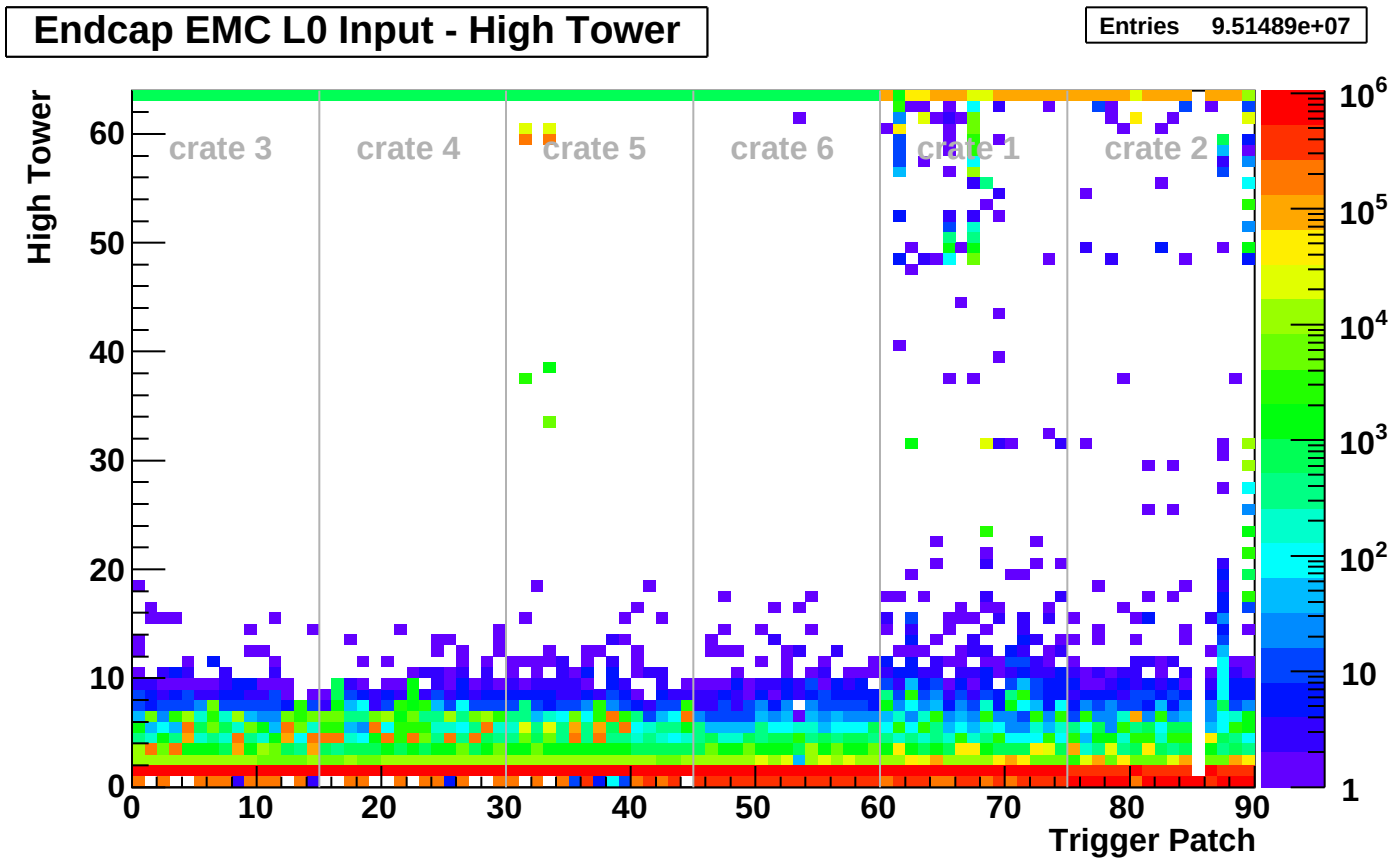

BunchId7Bit (all events)
Entries1057210

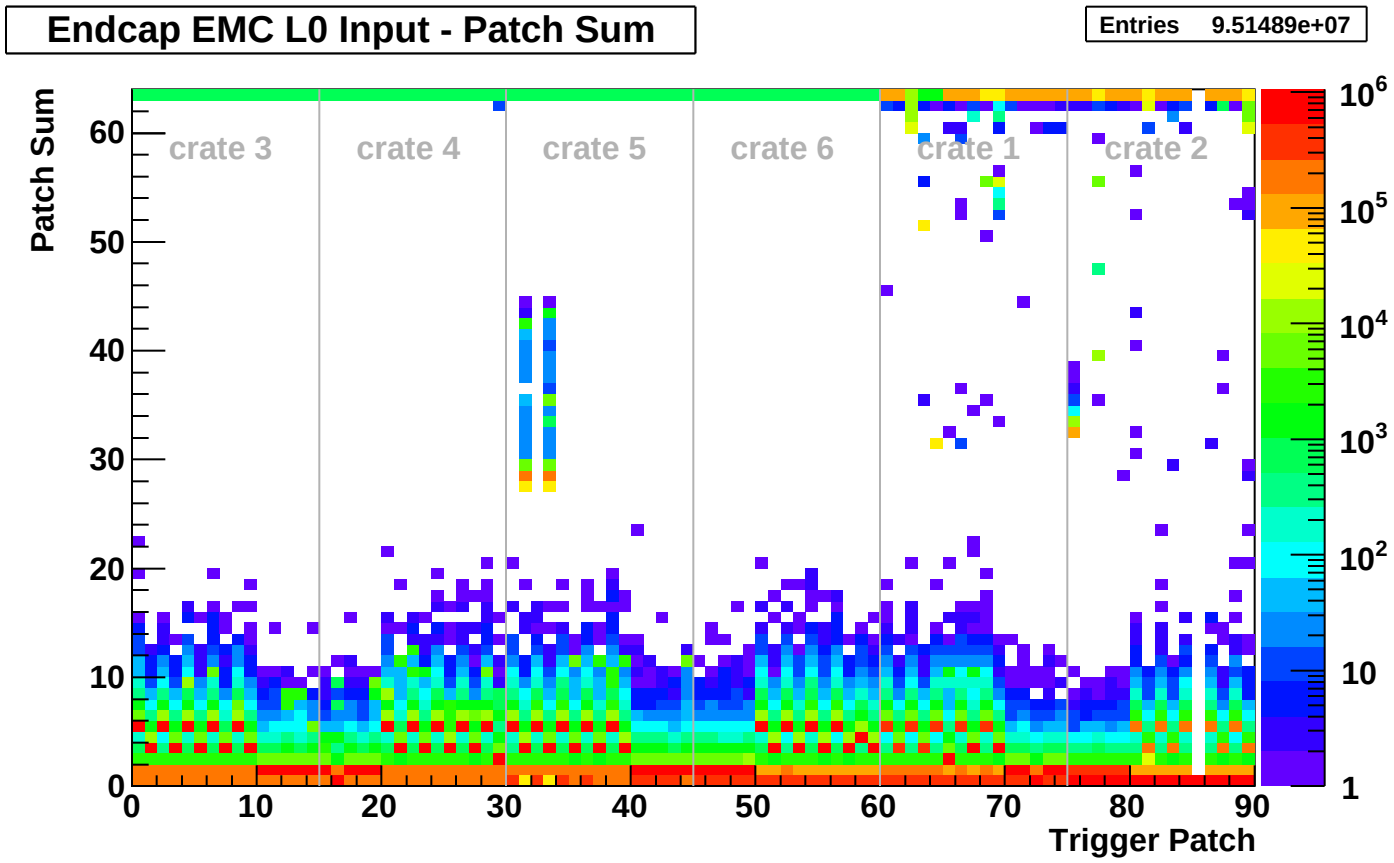

!Blue-Fill
Entries 1154

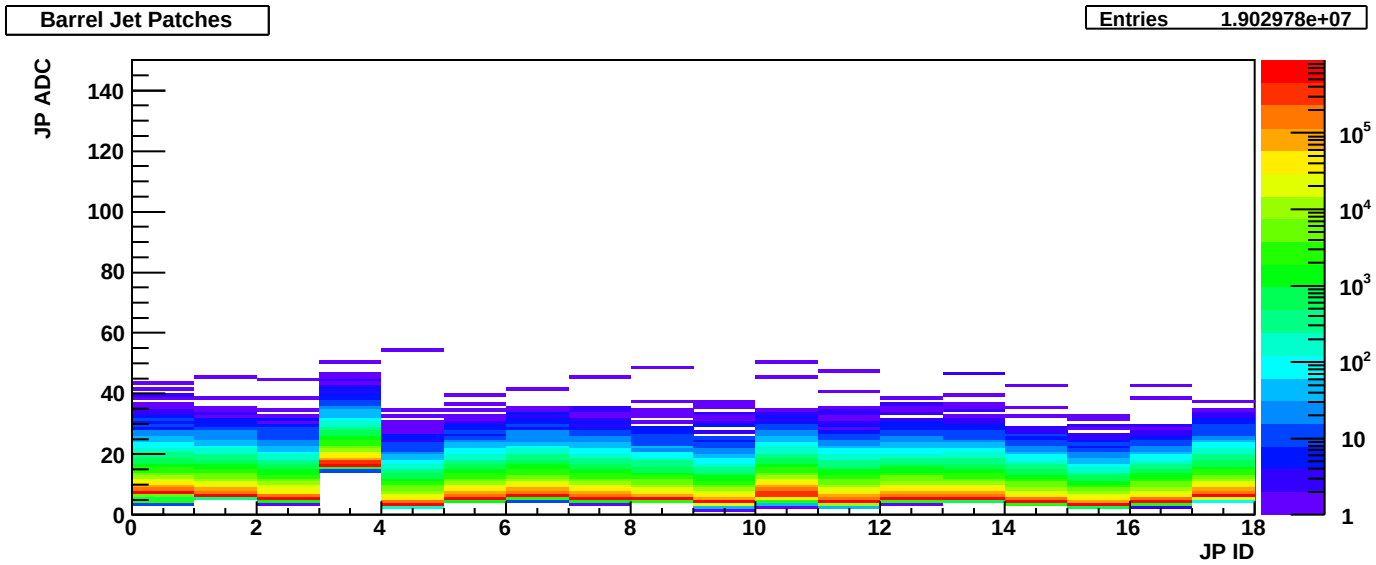

!Yellow-Fill
Entries 44830

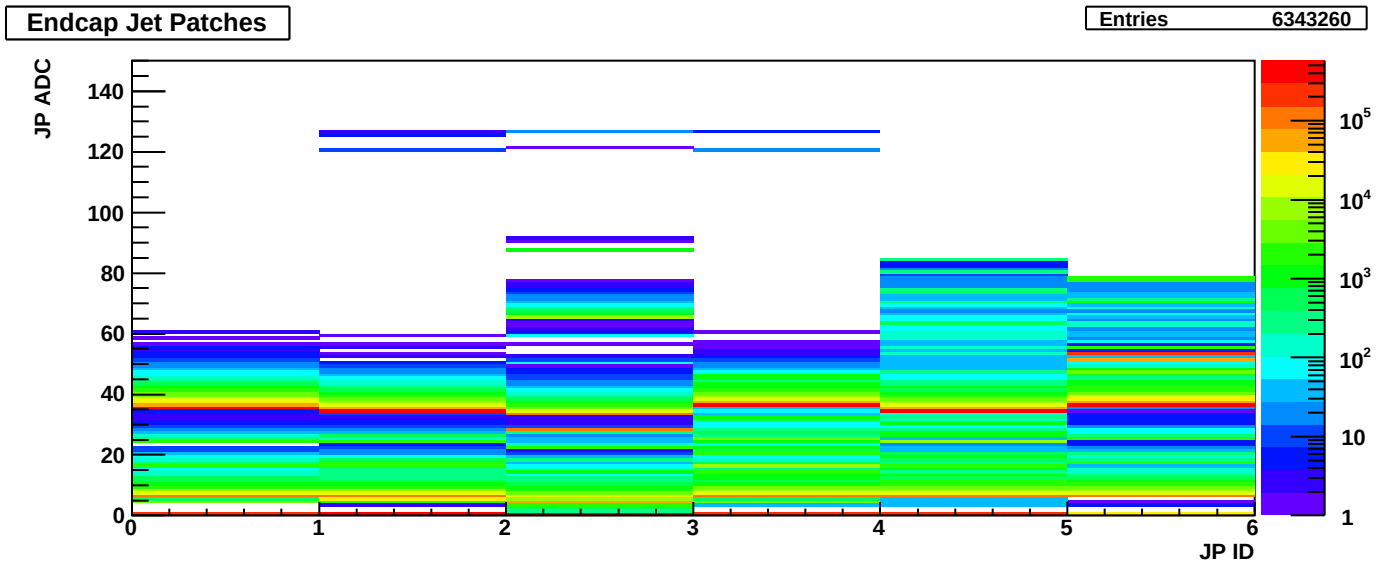

Barrel EMC L0 Input - High Tower
Entries 3.17163e+08
High Tower
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

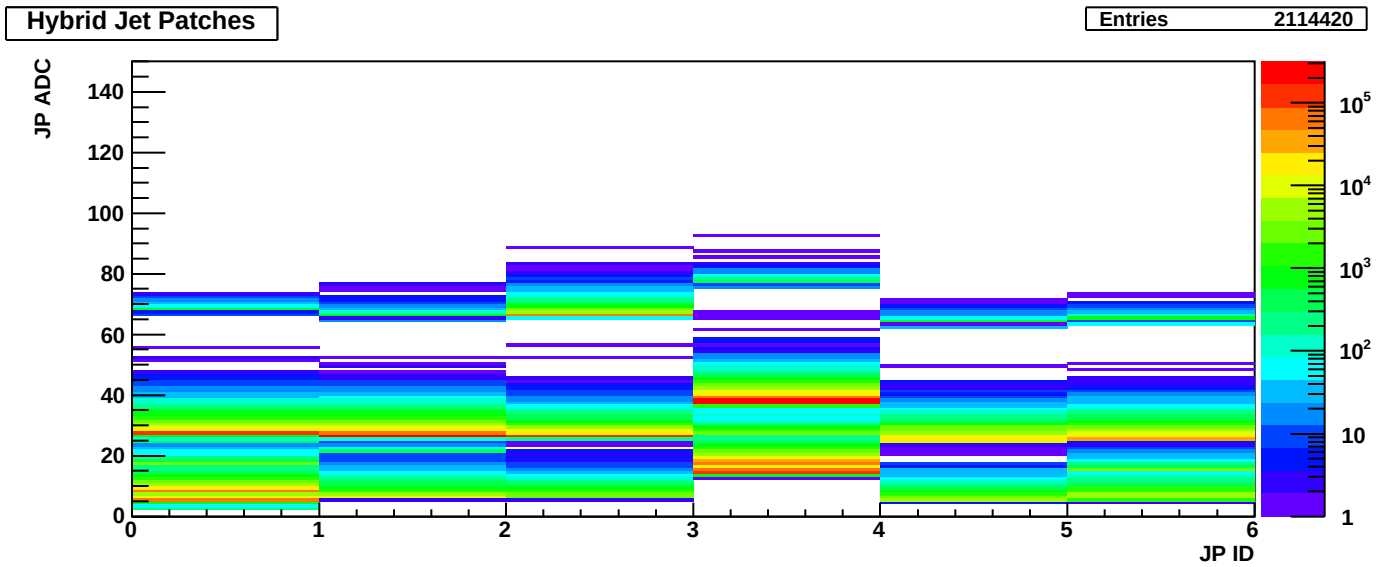

Barrel EMC L0 Input - Patch Sum
Entries 3.17163e+08
Patch Sum
Trigger Patch
0
10
20
30
40
50
60
0
50
100
150
200
250
300
1
10
10^2
10^3
10^4
10^5
10^6

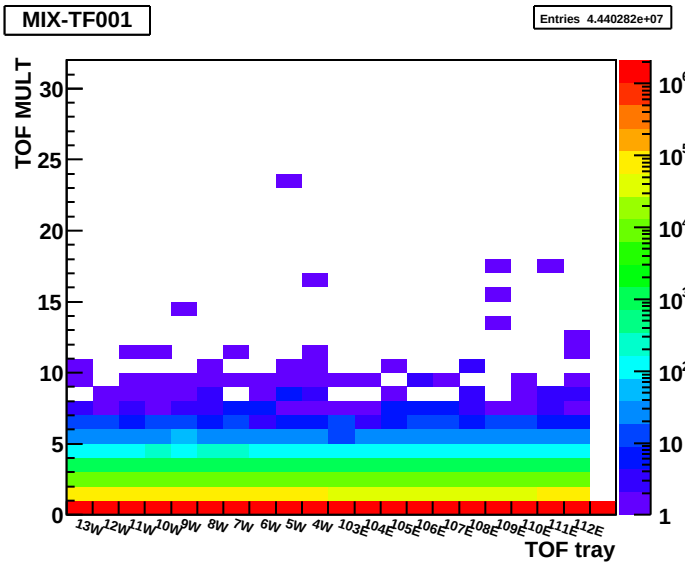

Endcap EMC L0 Input - High Tower
Entries 9.51489e+07
High Tower
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

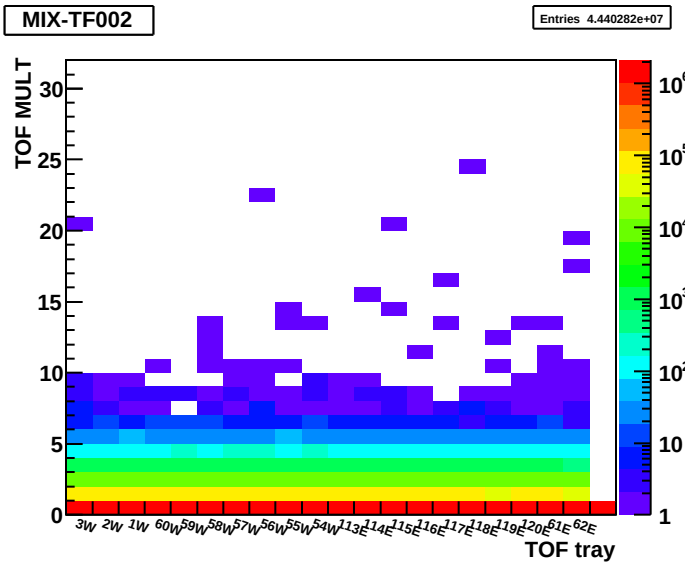

Endcap EMC L0 Input - Patch Sum
Entries 9.51489e+07
Patch Sum
crate 3
crate 4
crate 5
crate 6
crate 1
crate 2
Trigger Patch

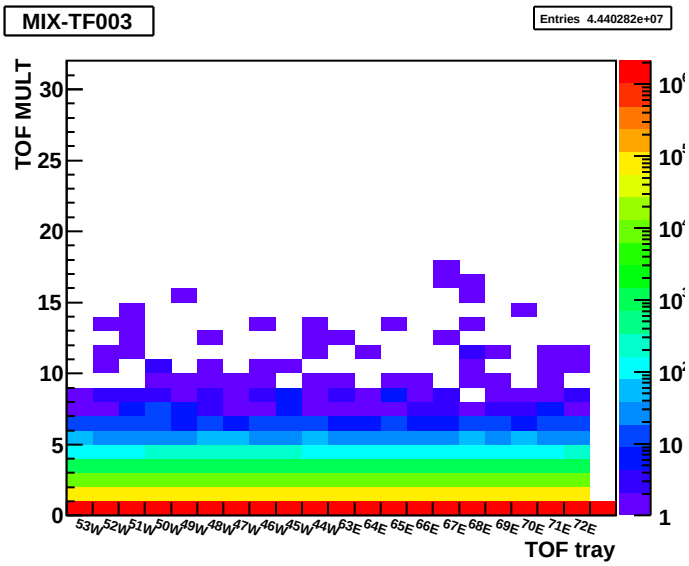

Barrel Jet Patches
Entries 1.902978e+07
JP ADC
JP ID

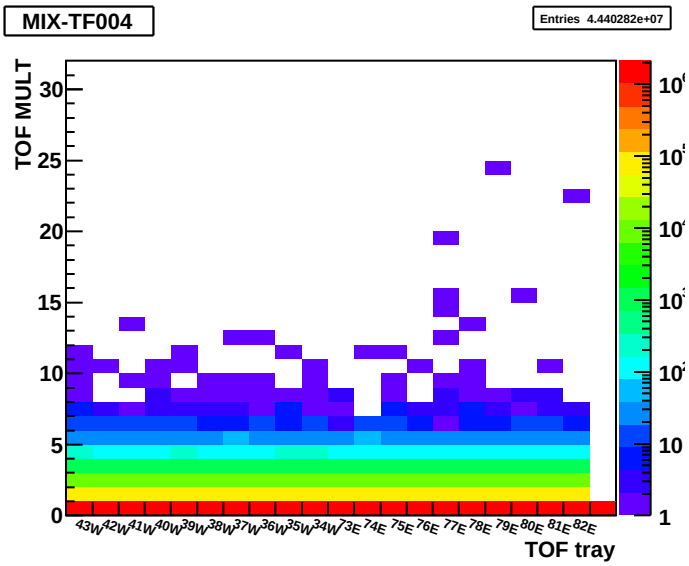

Endcap Jet Patches
Entries 6343260
JP ADC
JP ID

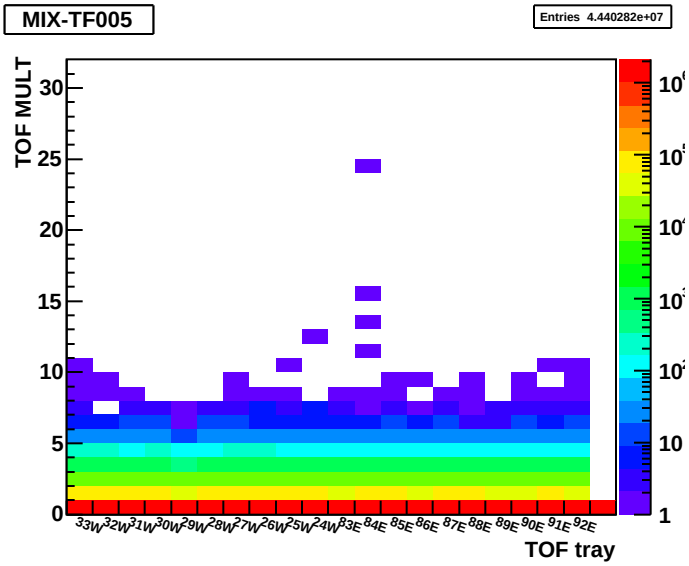

Hybrid Jet Patches
Entries 2114420
JP ADC
JP ID

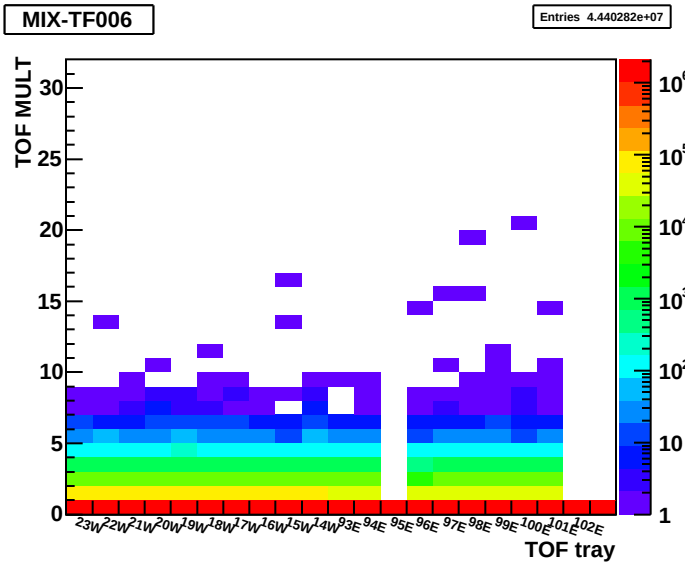

MIX-TF001
Entries 4.440282e+07
TOF MULT
TOF tray

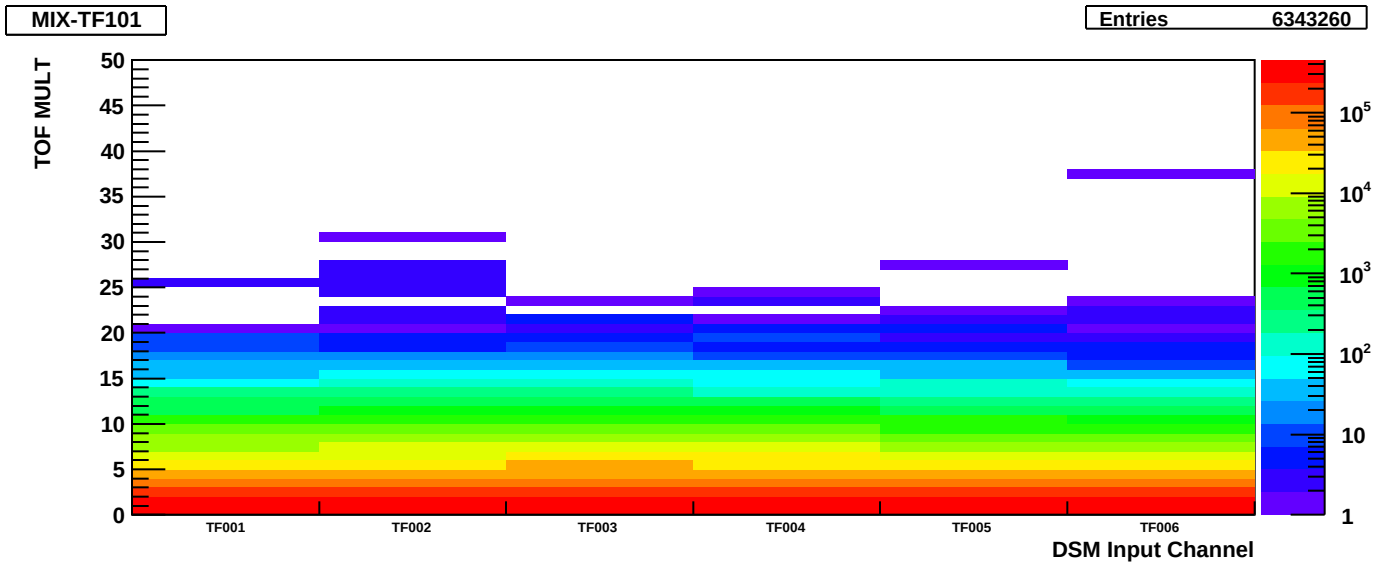

MIX-TF002
Entries 4.440282e+07
TOF MULT
TOF tray

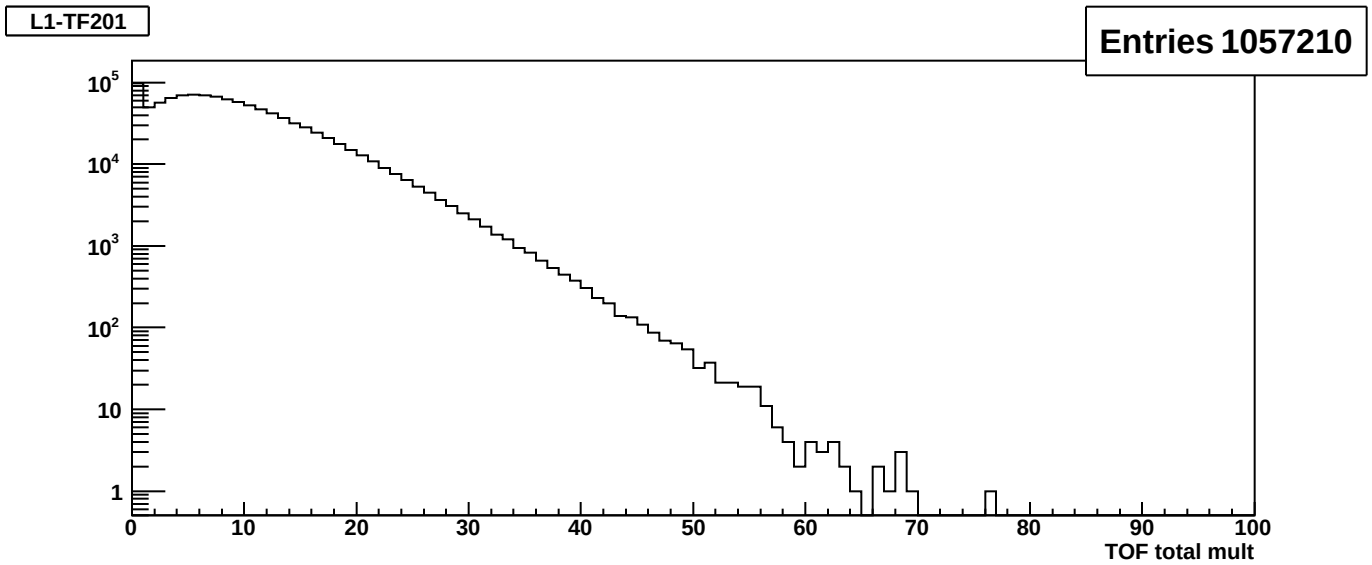

MIX-TF003
Entries 4.440282e+07
TOF MULT
TOF tray

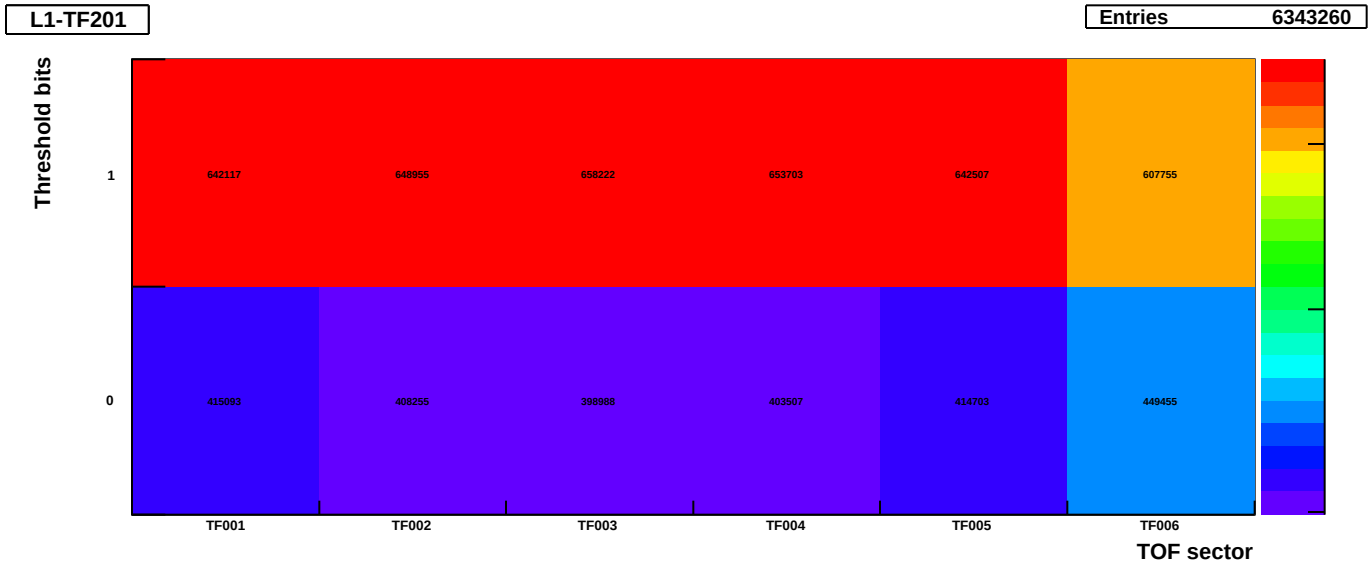

MIX-TF004
Entries 4.440282e+07
TOF MULT
TOF tray

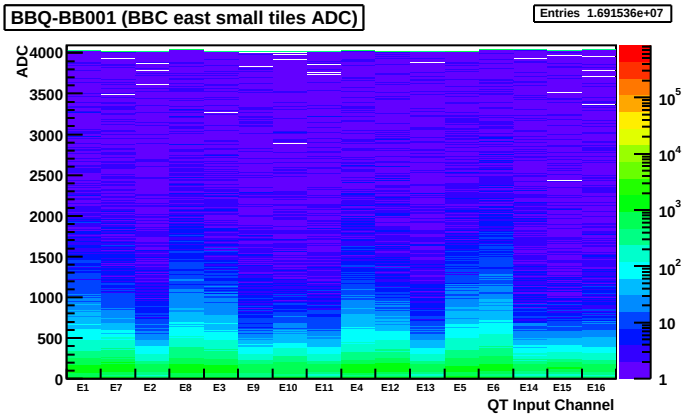

MIX-TF005
Entries 4.440282e+07
TOF MULT
TOF tray

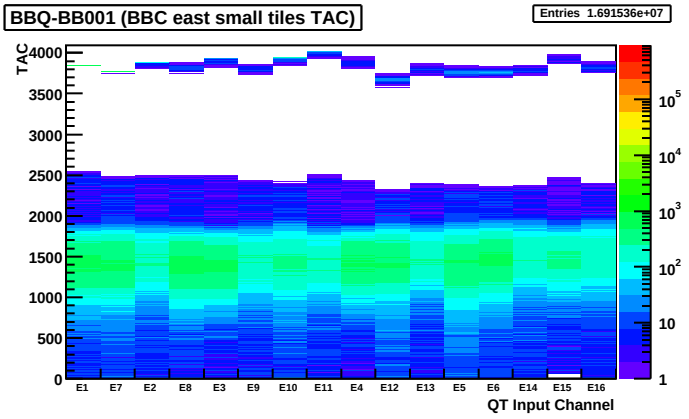

MIX-TF006
Entries 4.440282e+07
TOF MULT
TOF tray

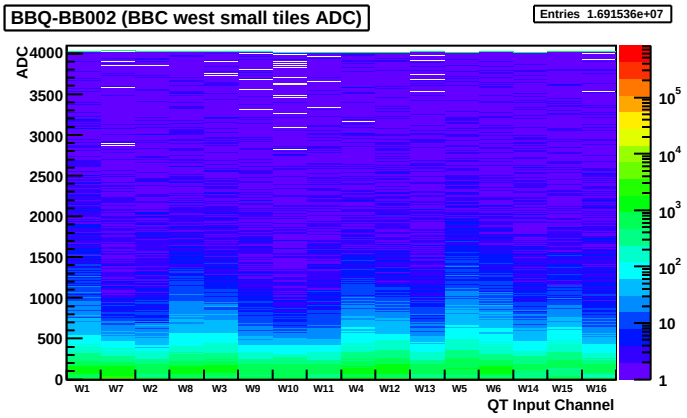

MIX-TF101
Entries 6343260
TOF MULT
DSM Input Channel
TF001
TF002
TF003
TF004
TF005
TF006

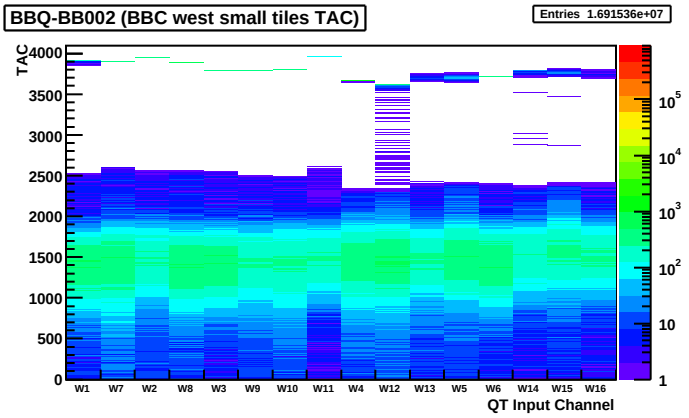

L1-TF201
Entries 1057210
TOF total mult

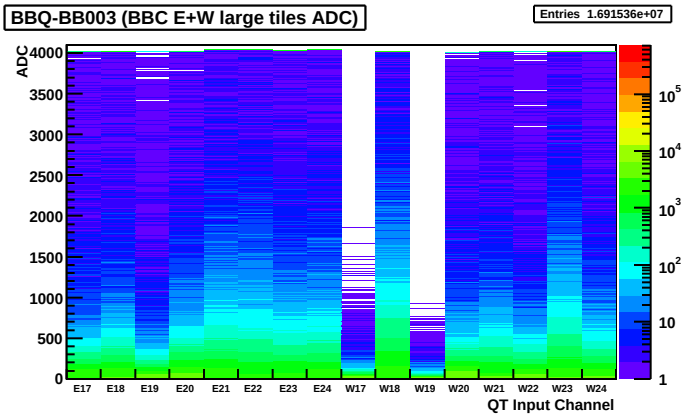

L1-TF201
Entries 6343260
Threshold bits
642117
648955
658222
653703
642507
607755
415093
408255
398988
403507
414703
449455
TF001
TF002
TF003
TF004
TF005
TF006
TOF sector

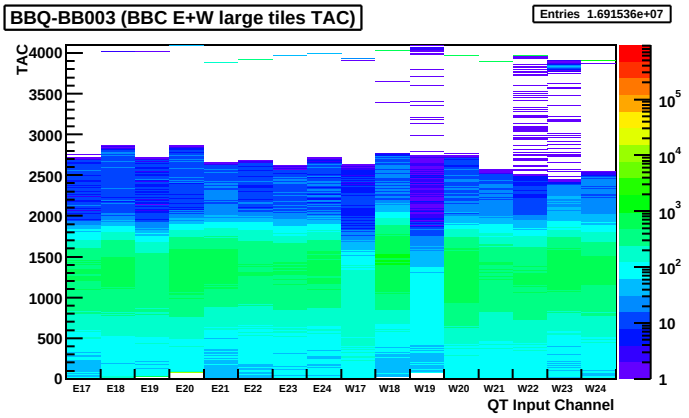

BBQ-BB001 (BBC east small tiles ADC)
Entries 1.691536e+07
ADC
QT Input Channel

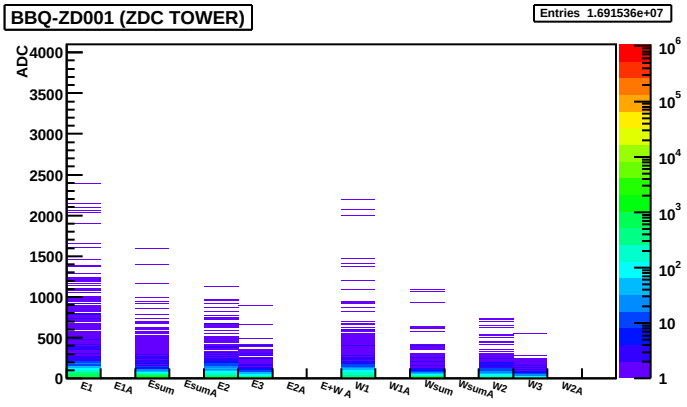

BBQ-BB001 (BBC east small tiles TAC)
Entries 1.691536e+07
TAC
QT Input Channel

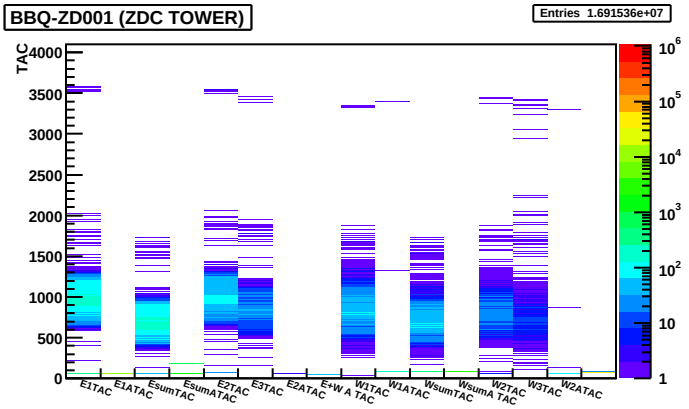

BBQ-BB002 (BBC west small tiles ADC)
Entries 1.691536e+07
ADC
QT Input Channel

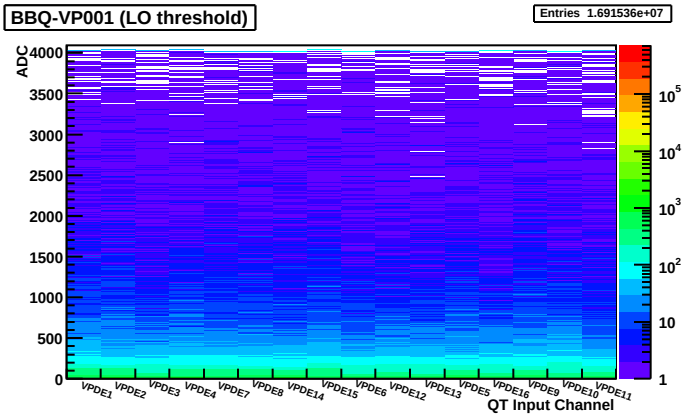

BBQ-BB002 (BBC west small tiles TAC)
Entries 1.691536e+07
TAC
QT Input Channel

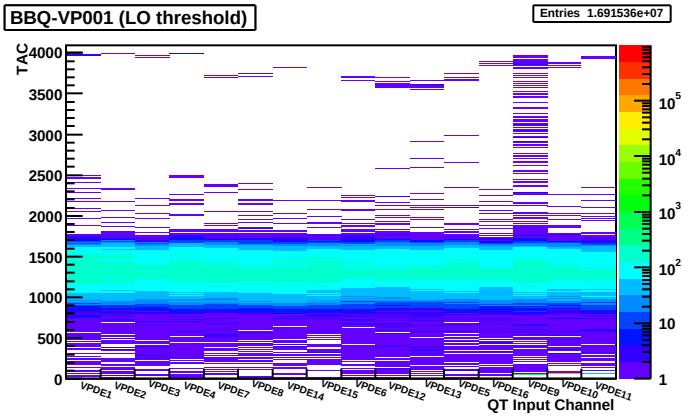

BBQ-BB003 (BBC E+W large tiles ADC)
Entries 1.691536e+07
ADC
QT Input Channel

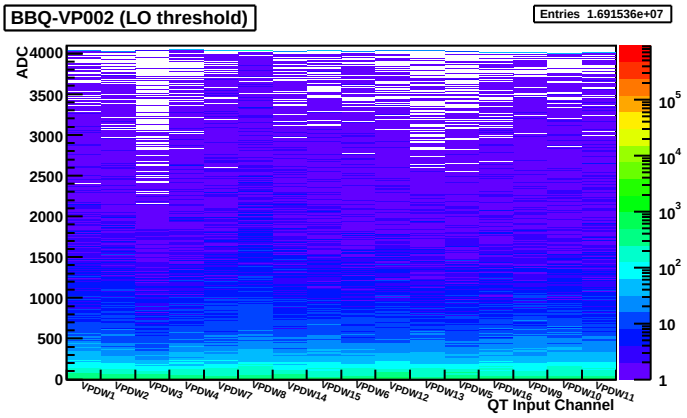

BBQ-BB003 (BBC E+W large tiles TAC)
Entries 1.691536e+07
TAC
QT Input Channel

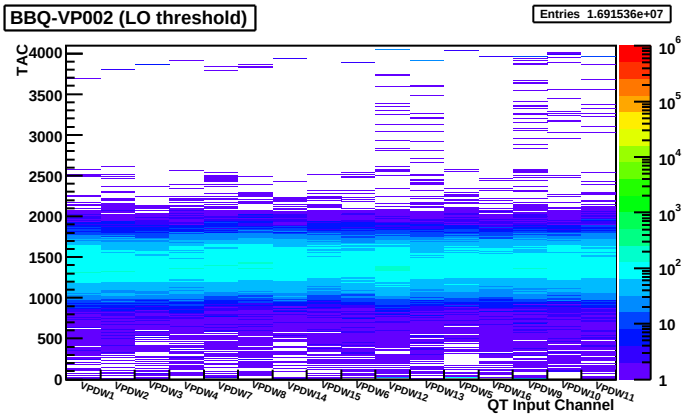

BBQ-ZD001 (ZDC TOWER)
Entries 1.691536e+07
ADC

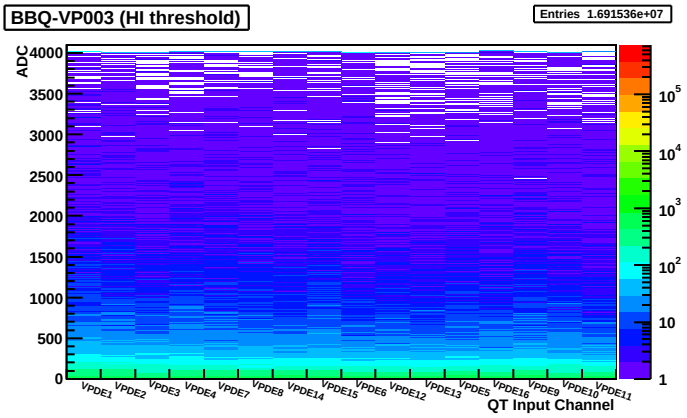

BBQ-ZD001 (ZDC TOWER)
Entries 1.691536e+07
TAC

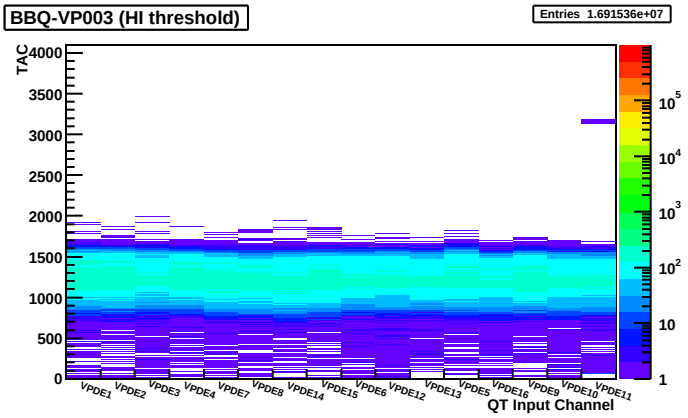

BBQ-VP001 (LO threshold)
Entries 1.691536e+07
ADC
QT Input Channel

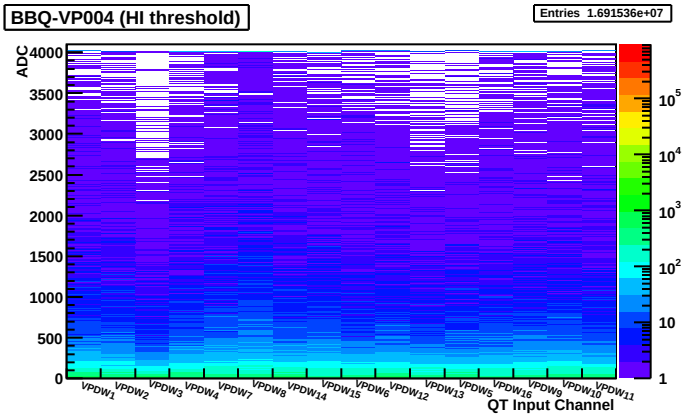

BBQ-VP001 (LO threshold)
Entries 1.691536e+07
TAC
QT Input Channel

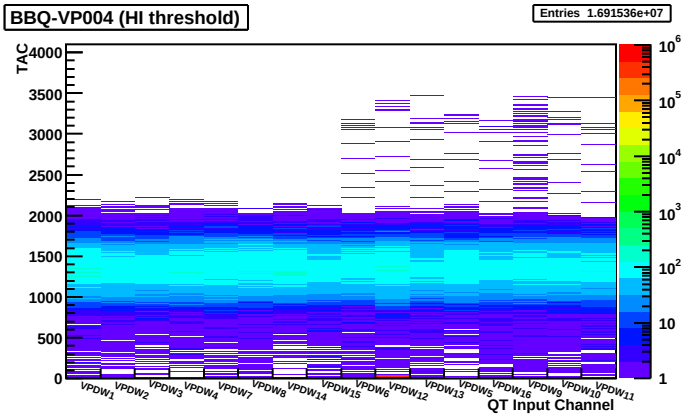

BBQ-VP002 (LO threshold)
Entries 1.691536e+07
ADC
QT Input Channel

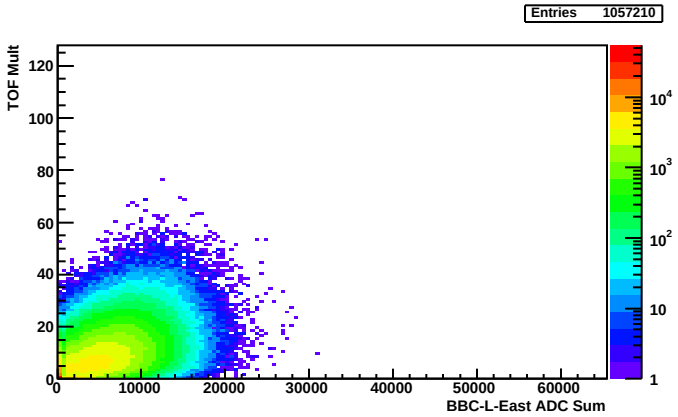

BBQ-VP002 (LO threshold)
Entries 1.691536e+07
TAC
QT Input Channel

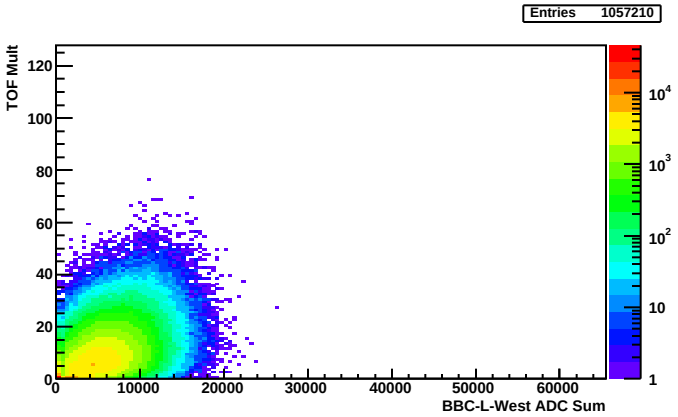

BBQ-VP003 (HI threshold)
Entries 1.691536e+07
ADC
QT Input Channel

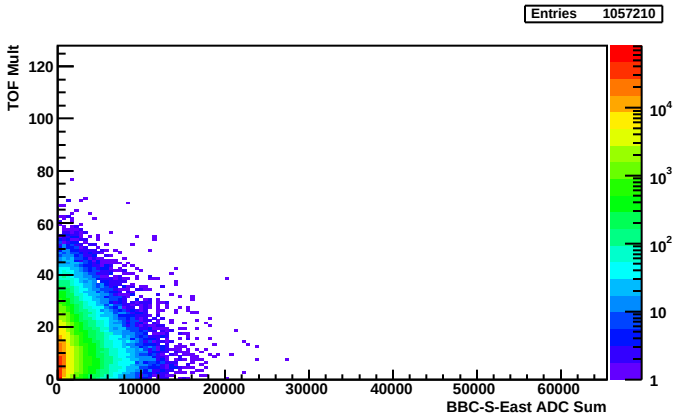

BBQ-VP003 (HI threshold)
Entries 1.691536e+07
TAC
QT Input Channel

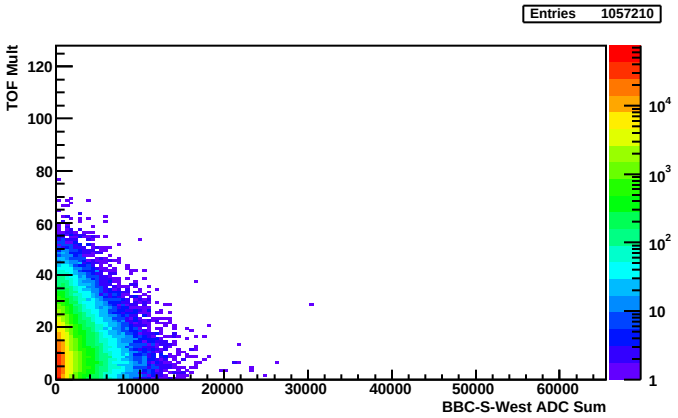

BBQ-VP004 (HI threshold)
Entries 1.691536e+07
ADC
QT Input Channel

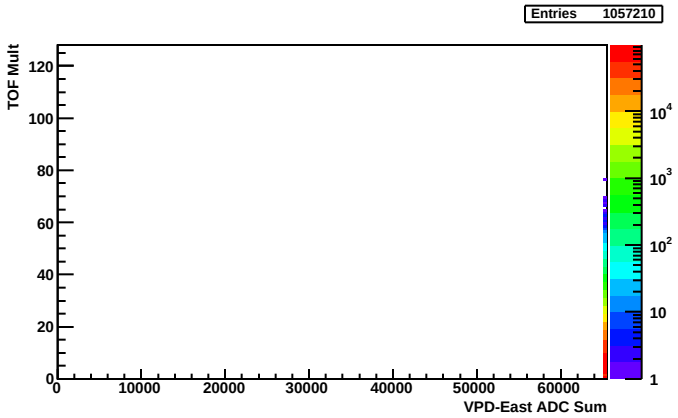

BBQ-VP004 (HI threshold)
Entries 1.691536e+07
TAC
QT Input Channel

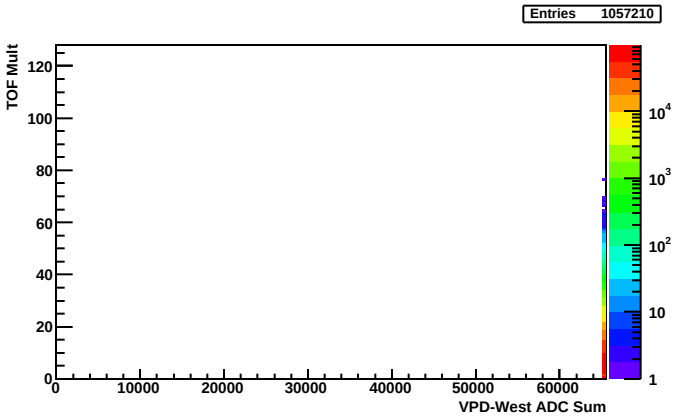

Entries 1057210
TOF Mult
BBC-L-East ADC Sum

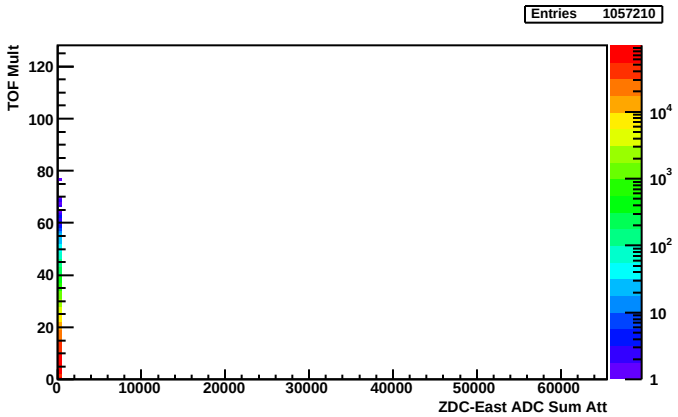

Entries 1057210
TOF Mult
BBC-L-West ADC Sum

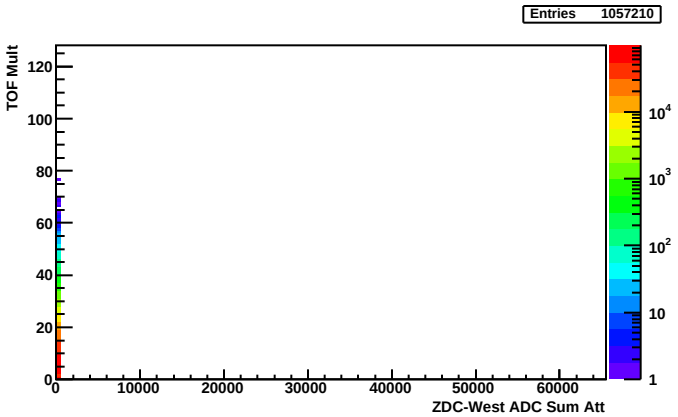

Entries 1057210
TOF Mult
BBC-S-East ADC Sum

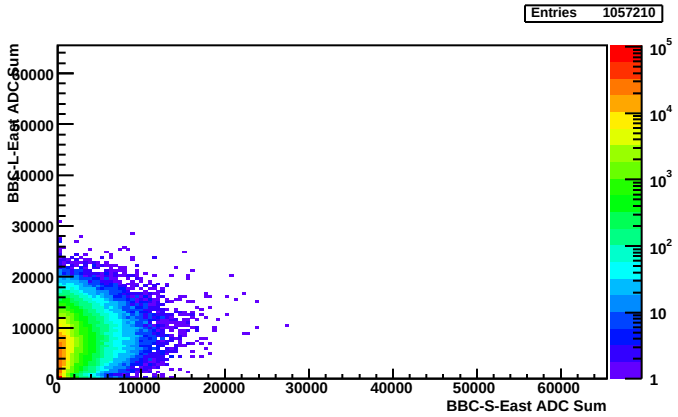

Entries 1057210
TOF Mult
BBC-S-West ADC Sum

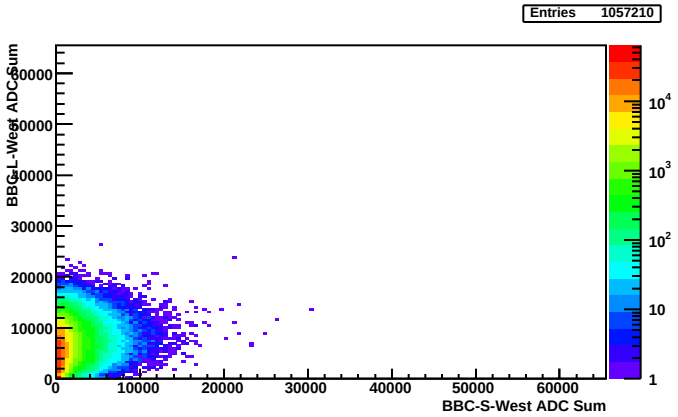

Entries 1057210
TOF Mult
VPD-East ADC Sum

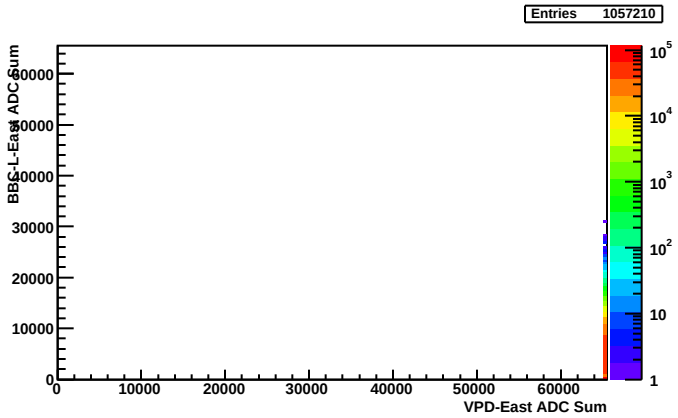

Entries 1057210
TOF Mult
VPD-West ADC Sum

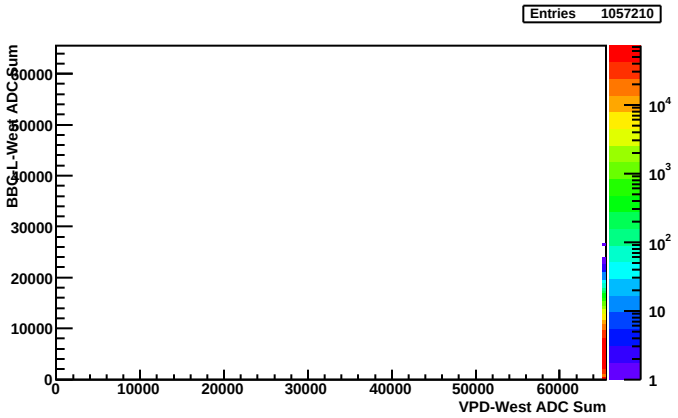

Entries 1057210
TOF Mult
ZDC-East ADC Sum Att

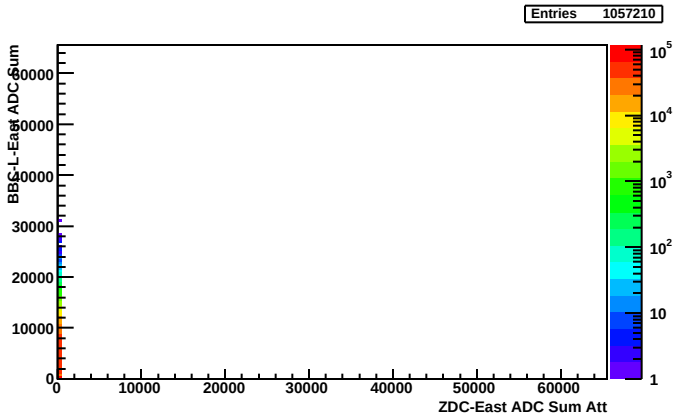

Entries 1057210
TOF Mult
ZDC-West ADC Sum Att

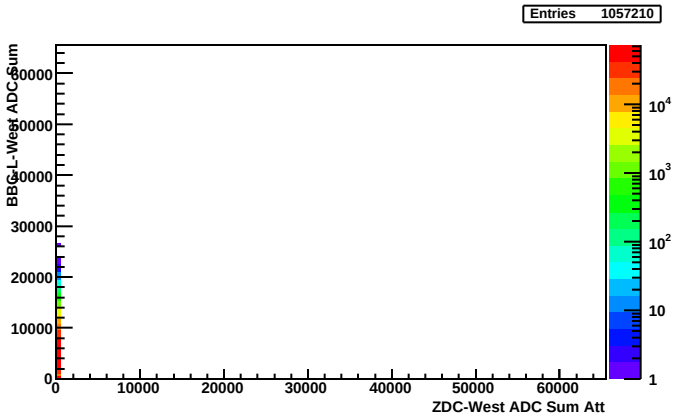

Entries 1057210
BBC-L-East ADC Sum
BBC-S-East ADC Sum

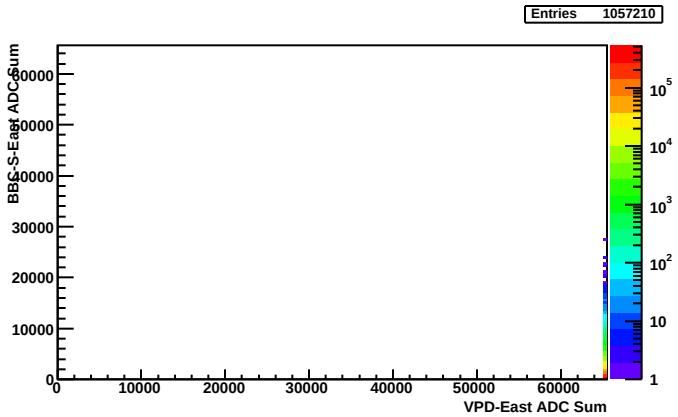

Entries 1057210
BBC-L-West ADC Sum
BBC-S-West ADC Sum

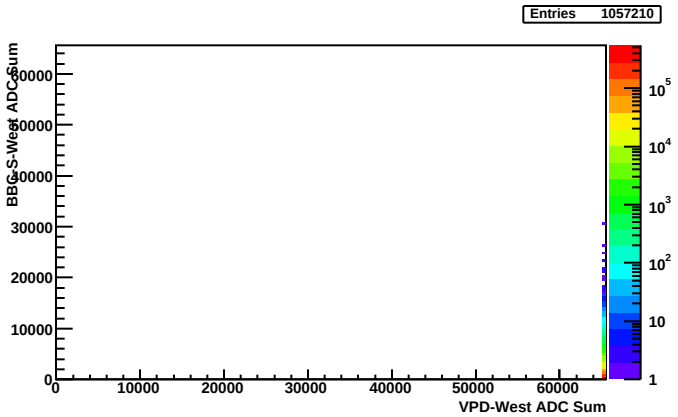

Entries 1057210
BBC-L-East ADC Sum
VPD-East ADC Sum

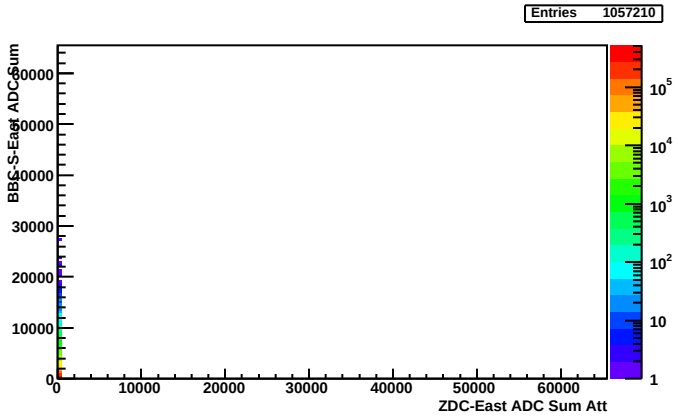

Entries 1057210
BBC-L-West ADC Sum
VPD-West ADC Sum

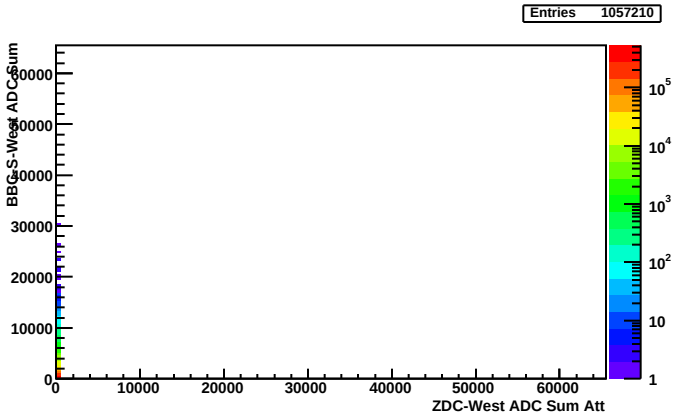

Entries 1057210
BBC-L-East ADC Sum
ZDC-East ADC Sum Att

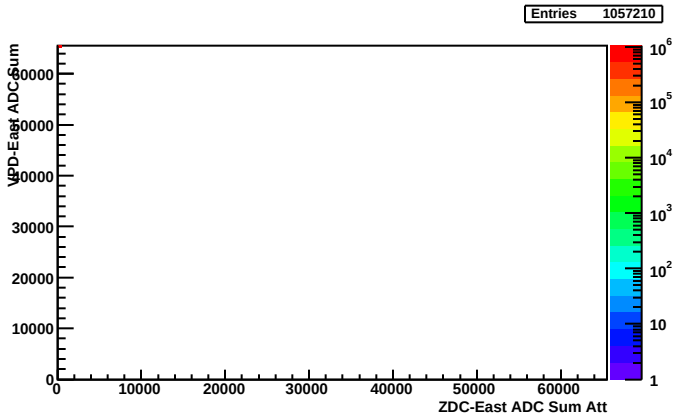

Entries 1057210
BBC-L-West ADC Sum
ZDC-West ADC Sum Att

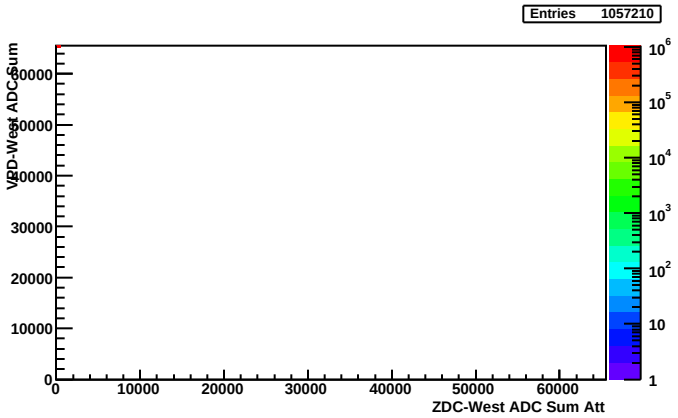

Entries 1057210
BBC-S-East ADC Sum
VPD-East ADC Sum

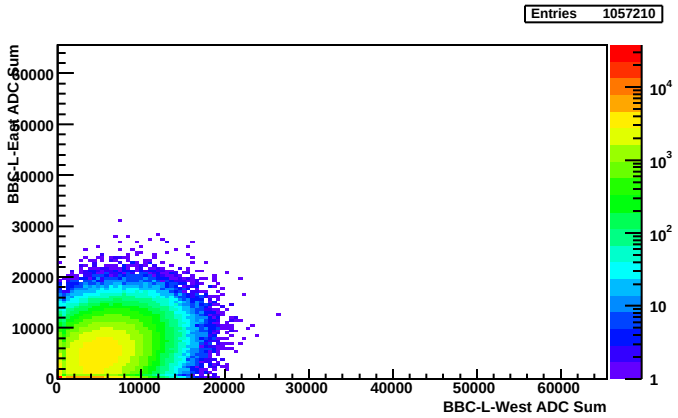

Entries 1057210
BBC-S-West ADC Sum
VPD-West ADC Sum


Entries 1057210
BBC-S-East ADC Sum
ZDC-East ADC Sum Att


Entries 1057210
BBC-S-West ADC Sum
ZDC-West ADC Sum Att


Entries 1057210
VPD-East ADC Sum
ZDC-East ADC Sum Att


Entries 1057210
VPD-West ADC Sum
ZDC-West ADC Sum Att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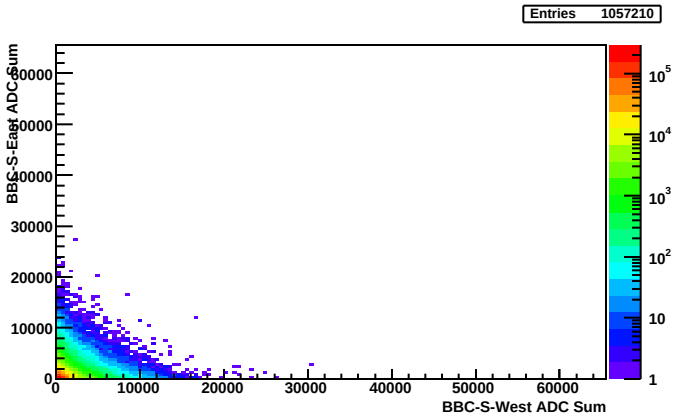
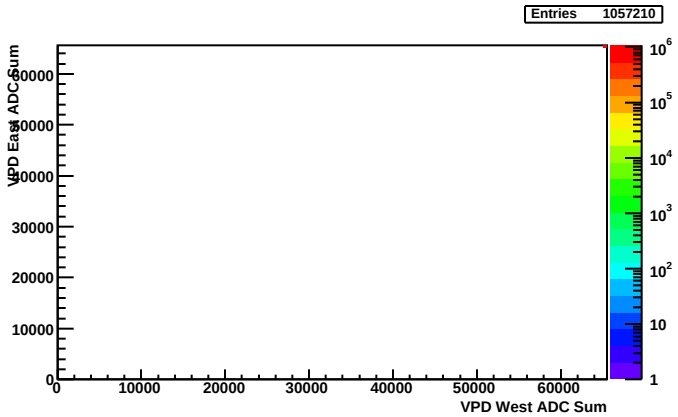
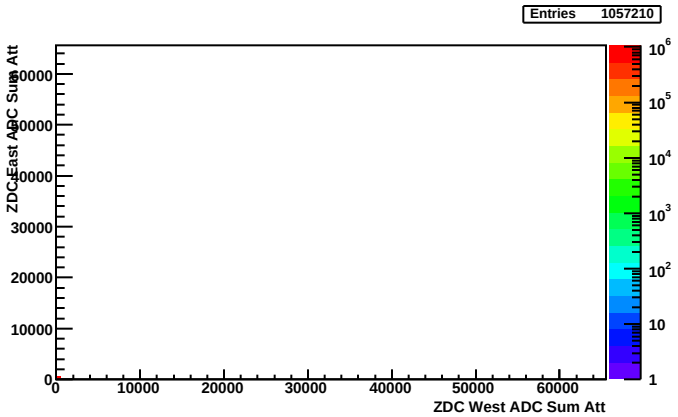
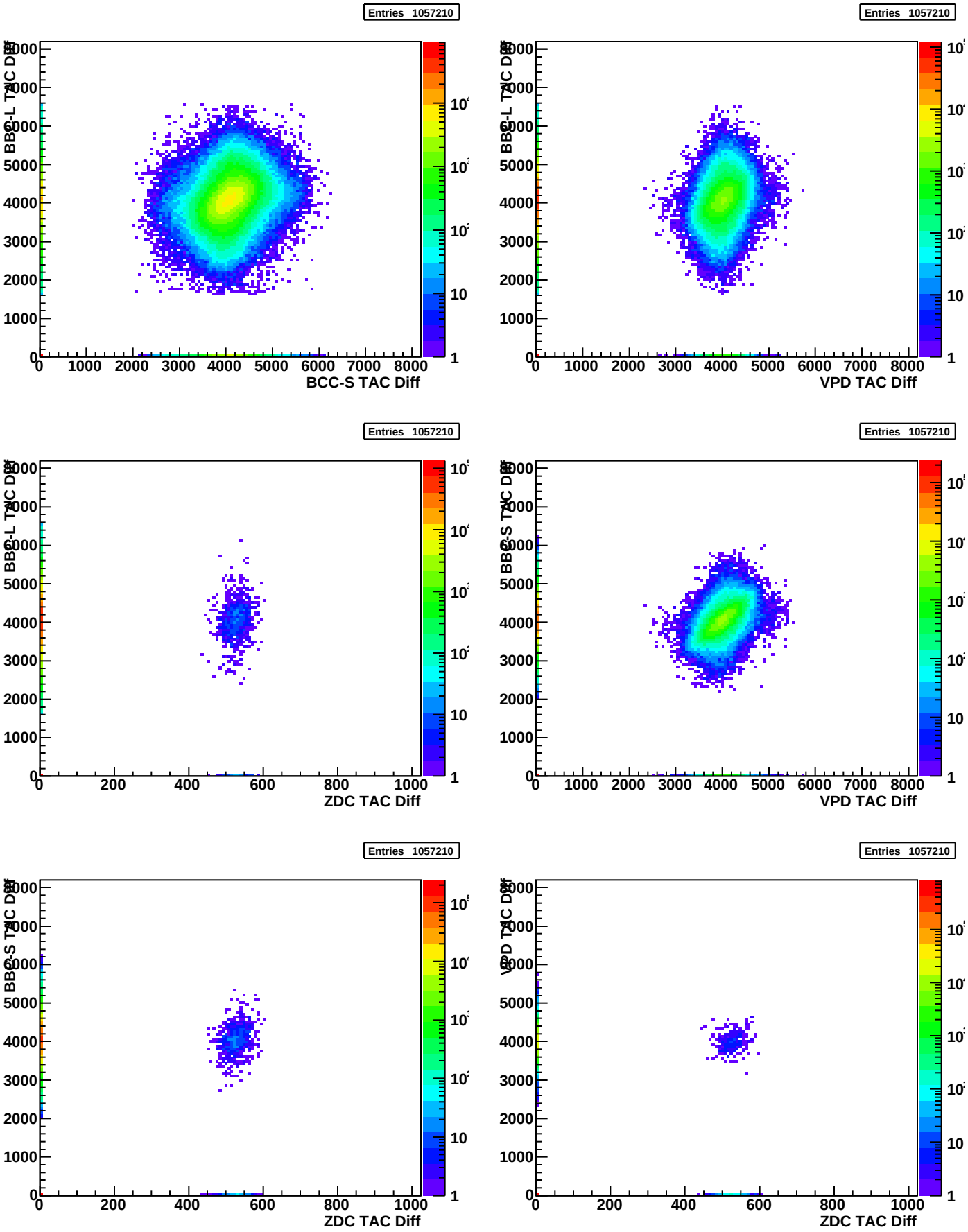
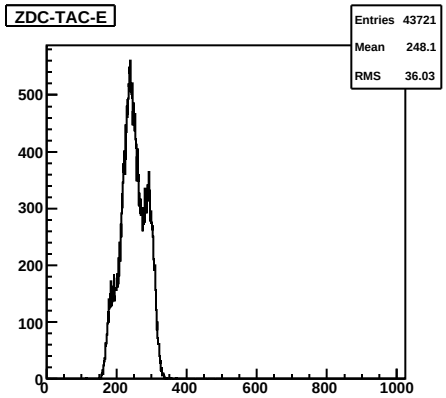
BBC-L-East ADC Sum
BBC-L-West ADC Sum

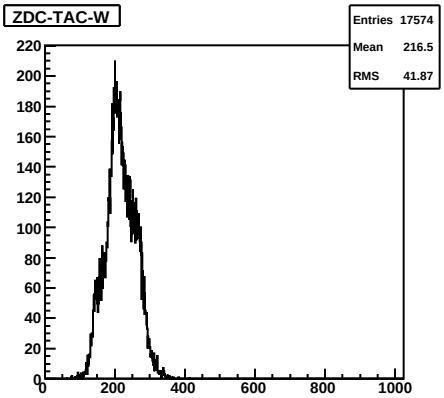

Entries 1057210
BBC-S-East ADC Sum
BBC-S-West ADC Sum

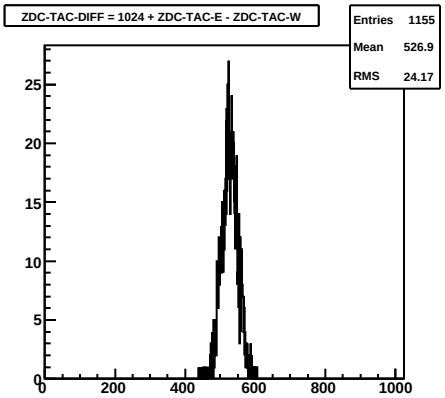

Entries 1057210
VPD East ADC Sum
VPD West ADC Sum

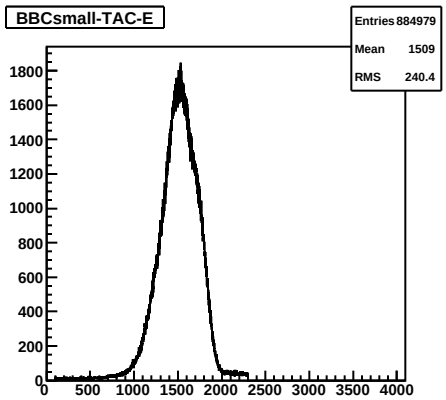

Entries 1057210
ZDC East ADC Sum Att
ZDC West ADC Sum Att

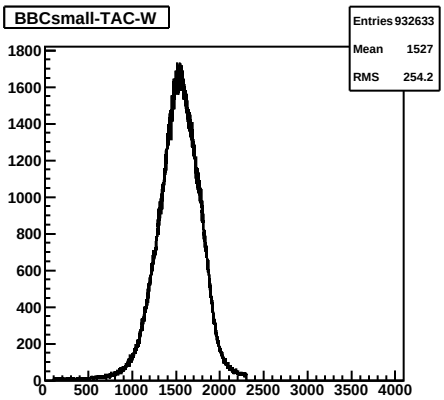

Entries 1057210
BBC-L TAC Diff
BCC-S TAC Diff
Entries 1057210
BBC-L TAC Diff
VPD TAC Diff
Entries 1057210
BBC-L TAC Diff
ZDC TAC Diff
Entries 1057210
BBC-S TAC Diff
VPD TAC Diff
Entries 1057210
BBC-S TAC Diff
ZDC TAC Diff
Entries 1057210
VPD TAC Diff
ZDC TAC Diff

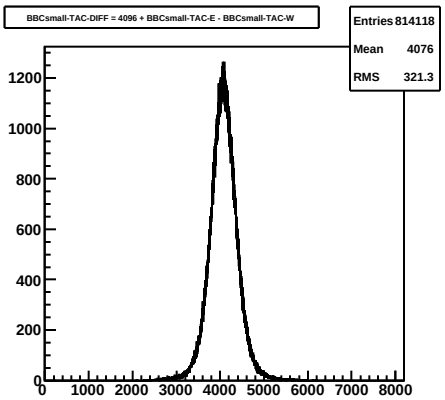

ZDC-TAC-E
Entries 43721
Mean 248.1
RMS 36.03

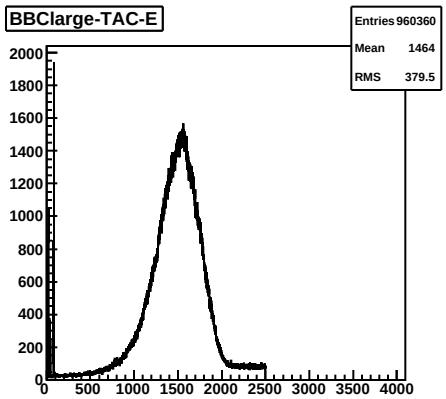

ZDC-TAC-W
Entries 17574
Mean 216.5
RMS 41.87

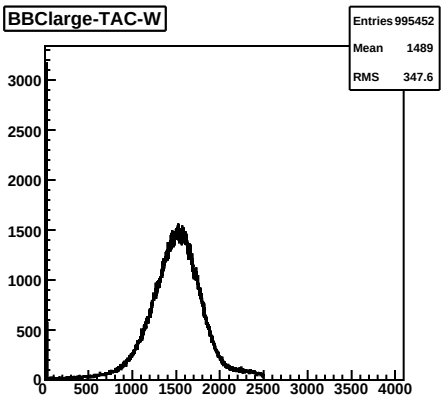

ZDC-TAC-DIFF = 1024 + ZDC-TAC-E - ZDC-TAC-W
Entries 1155
Mean 526.9
RMS 24.17

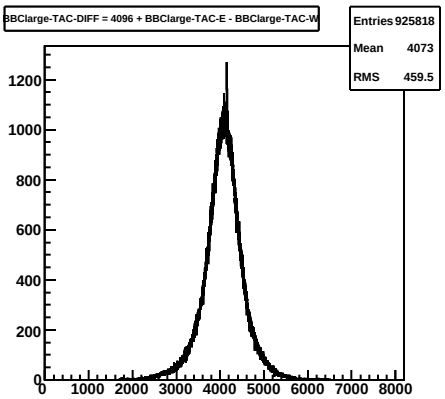

BBCsmall-TAC-E
Entries 884979
Mean 1509
RMS 240.4

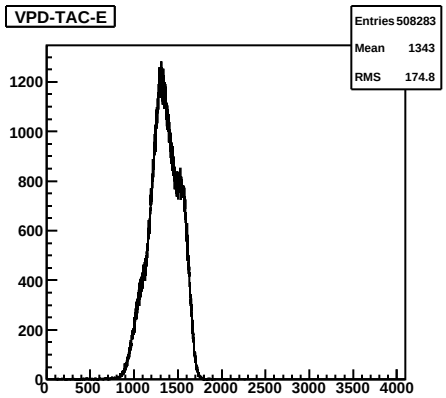

BBCsmall-TAC-W
Entries 932633
Mean 1527
RMS 254.2

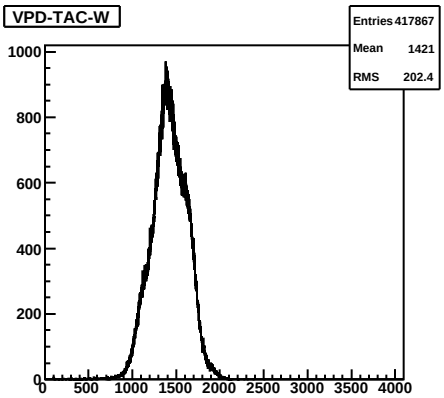

BBCsmall-TAC-DIFF = 4096 + BBCsmall-TAC-E - BBCsmall-TAC-W
Entries 814118
Mean 4076
RMS 321.3

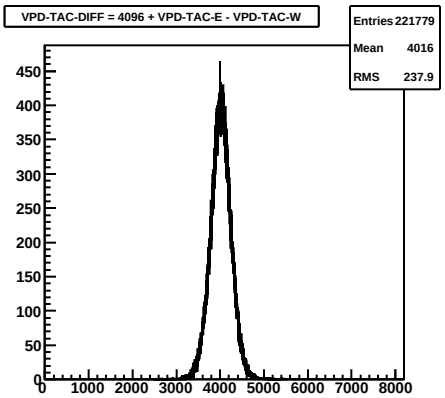

BBClarge-TAC-E
Entries 960360
Mean 1464
RMS 379.5

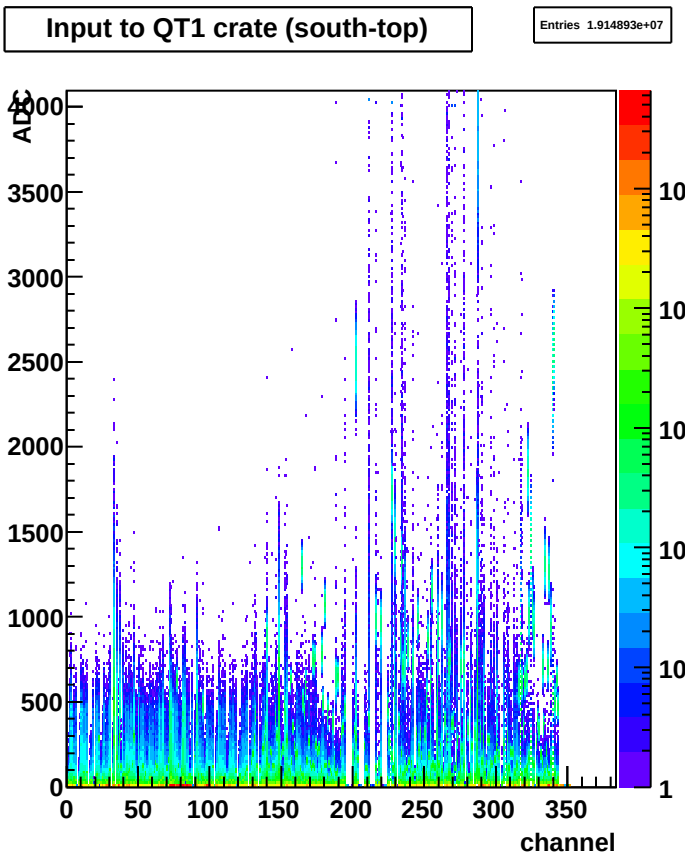

BBClarge-TAC-W
Entries 995452
Mean 1489
RMS 347.6

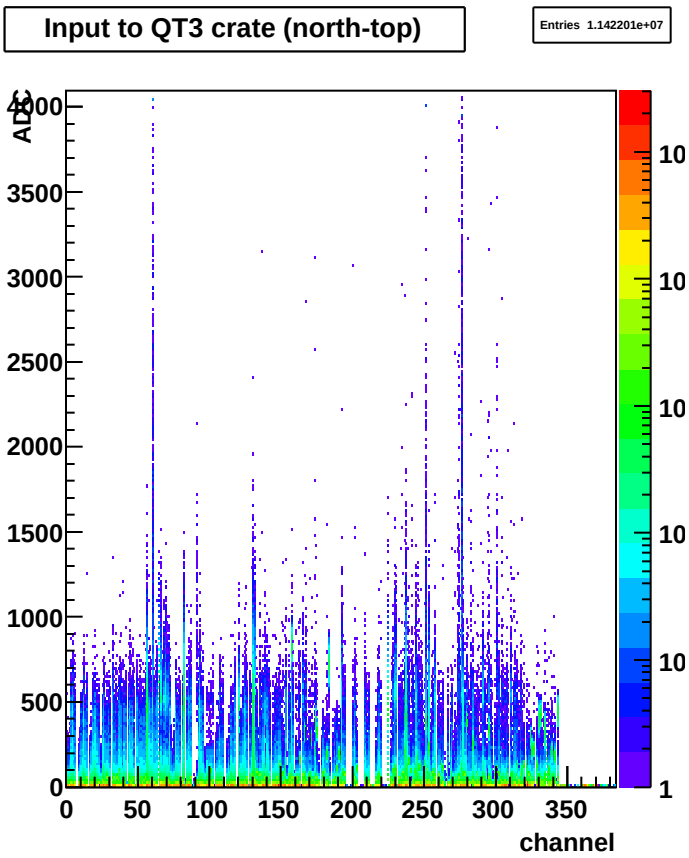

BBClarge-TAC-DIFF = 4096 + BBClarge-TAC-E - BBClarge-TAC-W
Entries 925818
Mean 4073
RMS 459.5

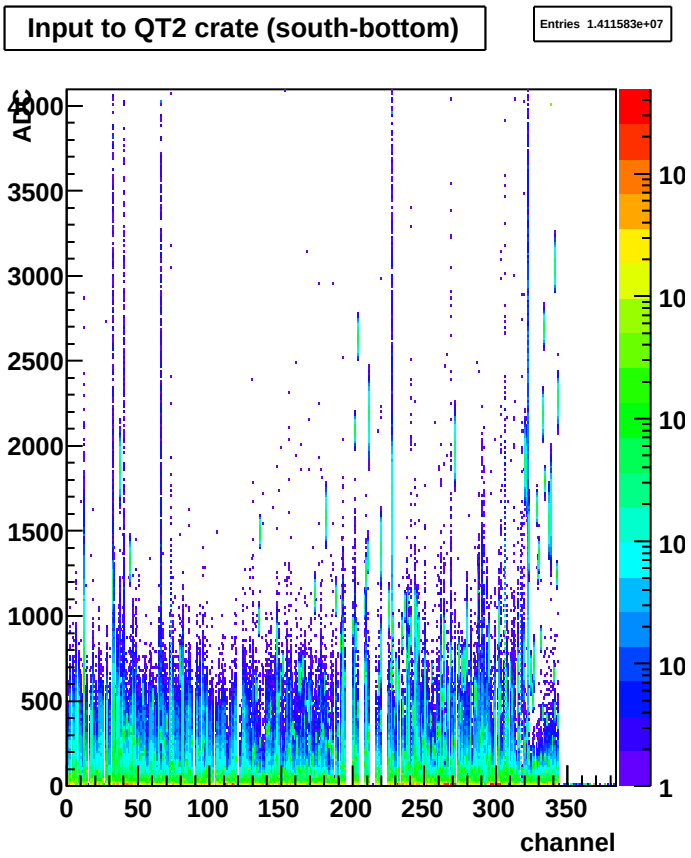

VPD-TAC-E
Entries 508283
Mean 1343
RMS 174.8

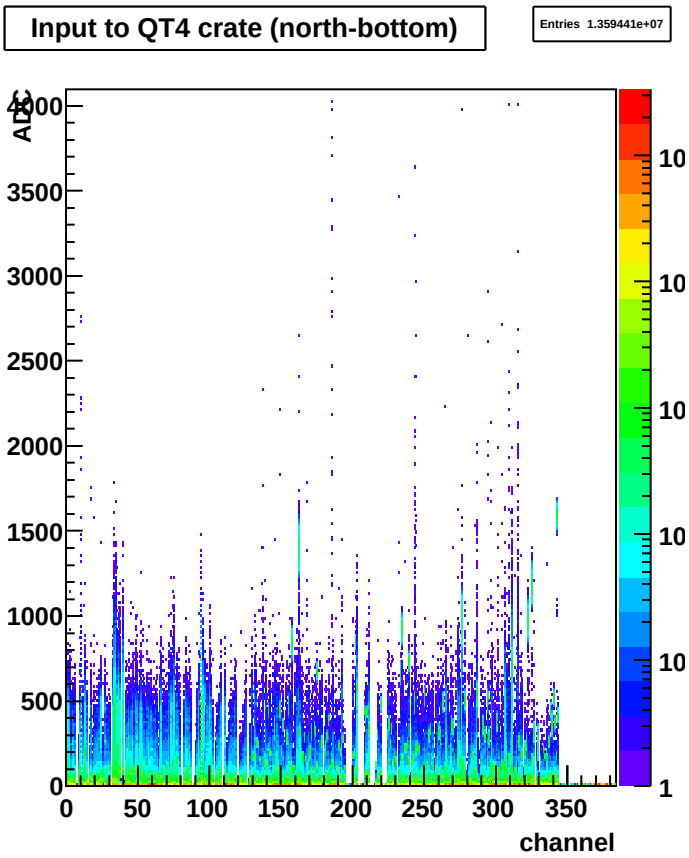

VPD-TAC-W
Entries 417867
Mean 1421
RMS 202.4

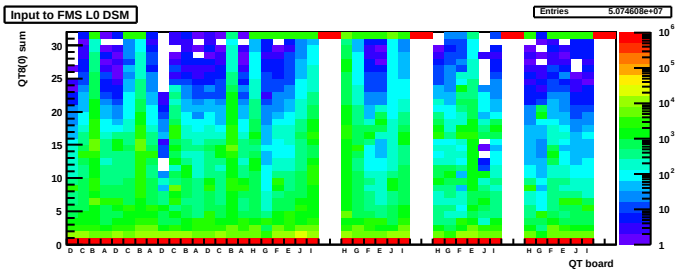

VPD-TAC-DIFF = 4096 + VPD-TAC-E - VPD-TAC-W
Entries 221779
Mean 4016
RMS 237.9

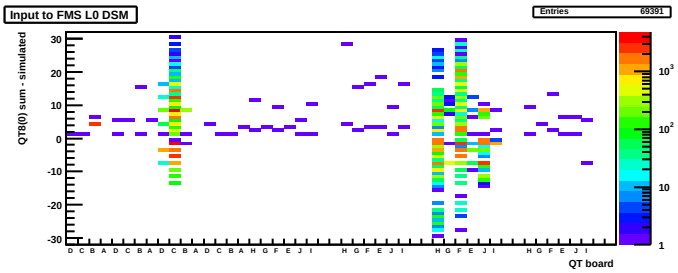

Input to QT1 crate (south-top)
Entries 1.914893e+07
ADC
channel

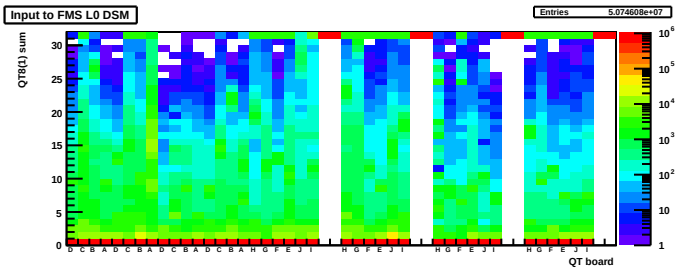

Input to QT3 crate (north-top)
Entries 1.142201e+07
ADC
channel

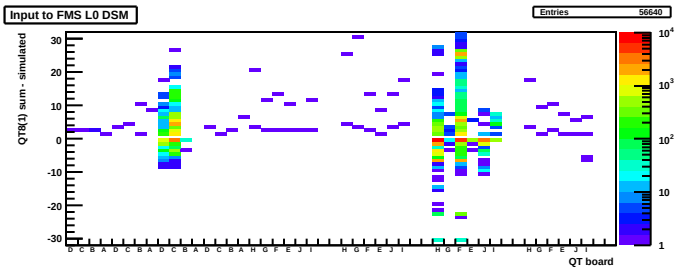

Input to QT2 crate (south-bottom)
Entries 1.411583e+07
ADC
channel

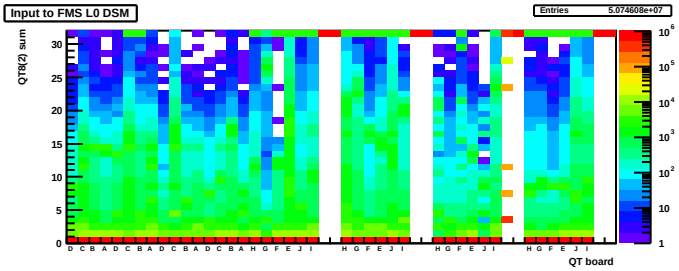

Input to QT4 crate (north-bottom)
Entries 1.359441e+07
ADC
channel

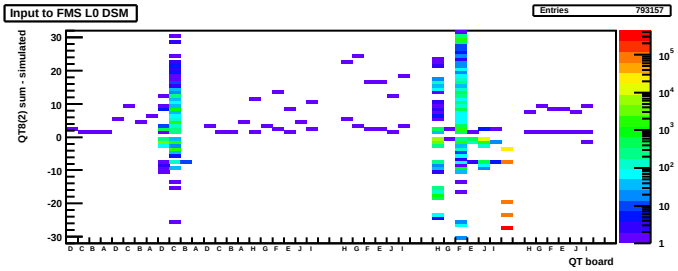

Input to FMS L0 DSM
Entries 5.074608e+07
QT8(0) sum
QT board

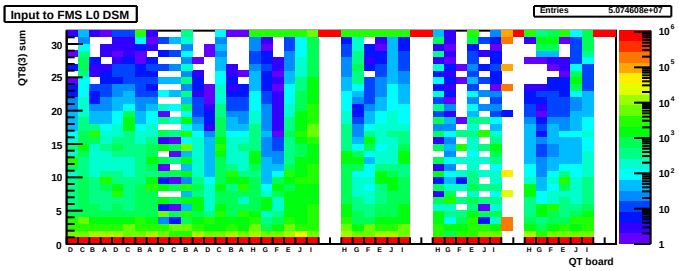

Input to FMS L0 DSM
Entries 69391
QT8(0) sum - simulated
QT board

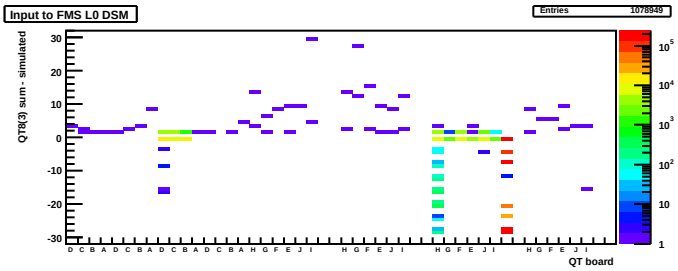

Input to FMS L0 DSM
Entries 5.074608e+07
QT8(1) sum
QT board

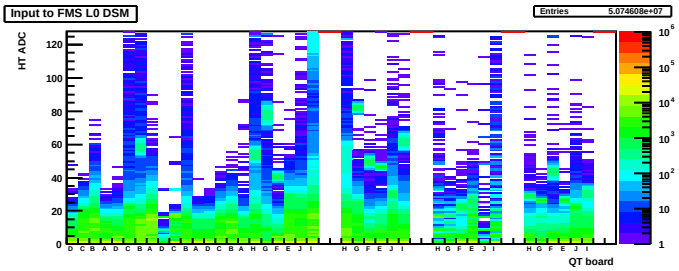

Input to FMS L0 DSM
Entries 56640
QT8(1) sum - simulated
QT board

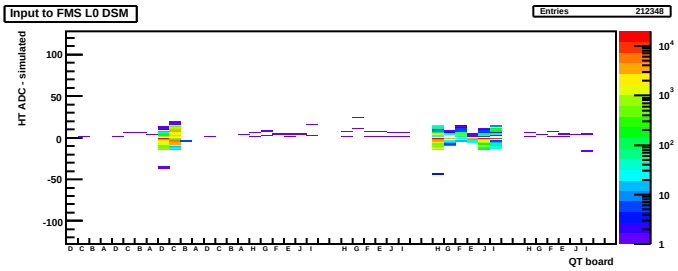

Input to FMS L0 DSM
Entries 5.074608e+07
QT8(2) sum
QT board

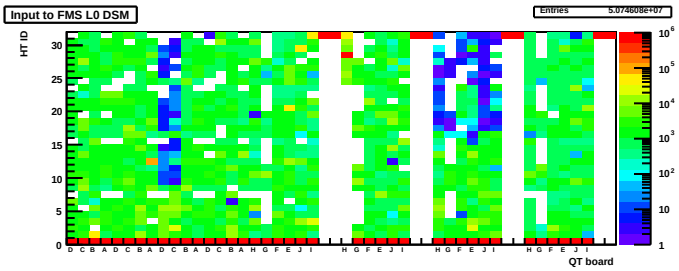

Input to FMS L0 DSM
Entries 793157
QT8(2) sum - simulated
QT board

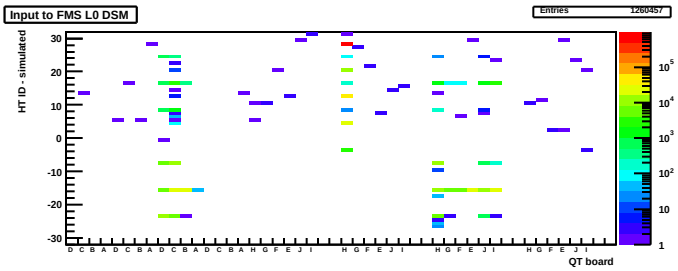

Input to FMS L0 DSM
Entries 5.074608e+07
QT8(3) sum
QT board

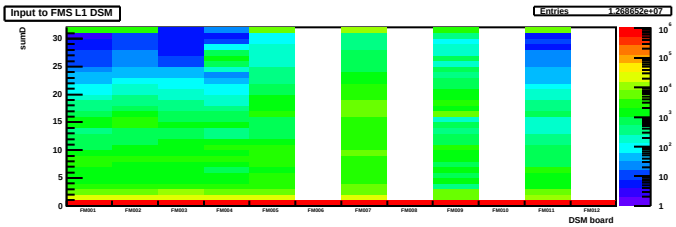

Input to FMS L0 DSM
Entries 1078949
QT8(3) sum - simulated
QT board

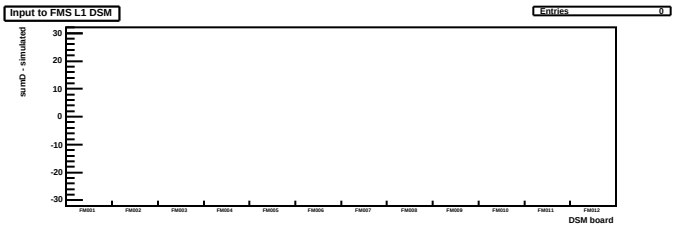

Input to FMS L0 DSM
Entries 5.074608e+07
HT ADC
QT board

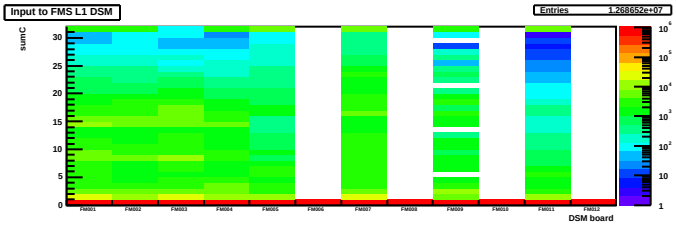

Input to FMS L0 DSM
Entries 212348
HT ADC - simulated
QT board

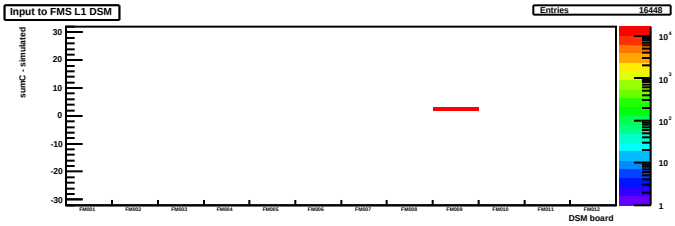

Input to FMS L0 DSM
Entries 5.074608e+07
HT ID
QT board

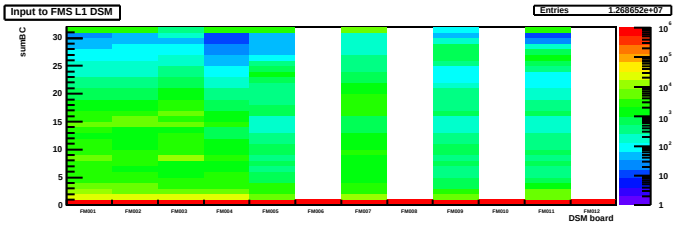

Input to FMS L0 DSM
Entries 1260457
HT ID - simulated
QT board

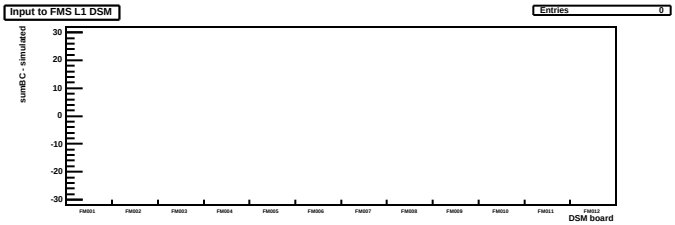

Input to FMS L1 DSM
Entries 1.268652e+07
sumD
DSM board

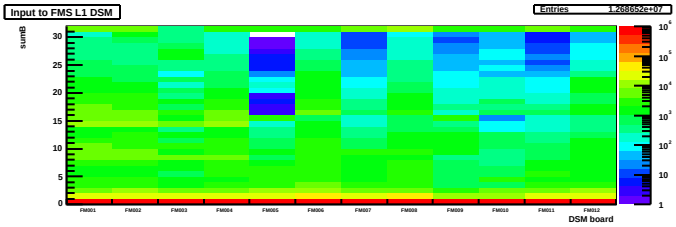

Input to FMS L1 DSM
Entries 0
sumD - simulated
DSM board

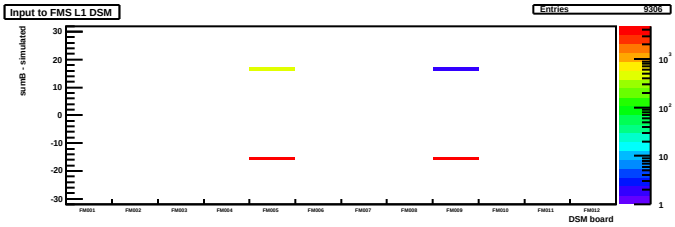

Input to FMS L1 DSM
Entries 1.268652e+07
sumC
DSM board

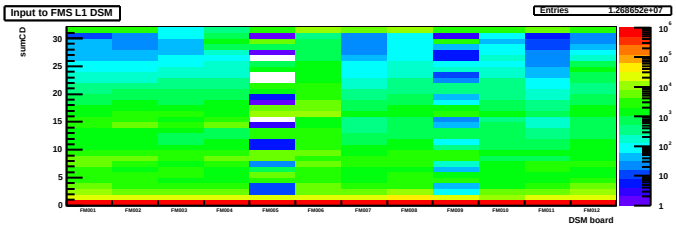

Input to FMS L1 DSM
Entries 16448
sumC - simulated
DSM board

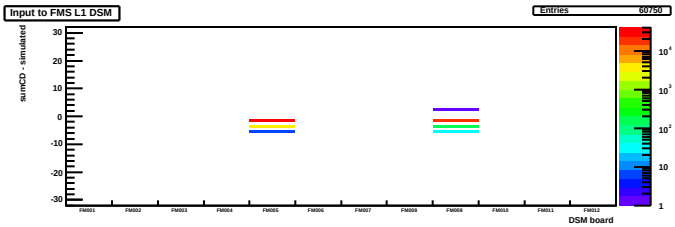

Input to FMS L1 DSM
Entries 1.268652e+07
sumBC
DSM board

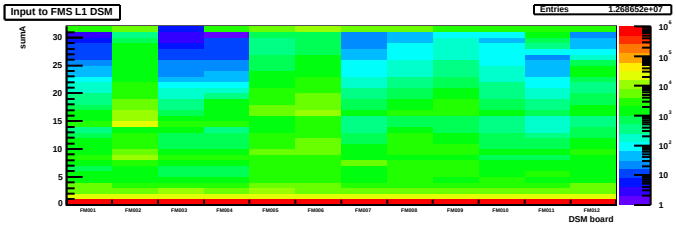

Input to FMS L1 DSM
Entries 0
sumBC - simulated
DSM board

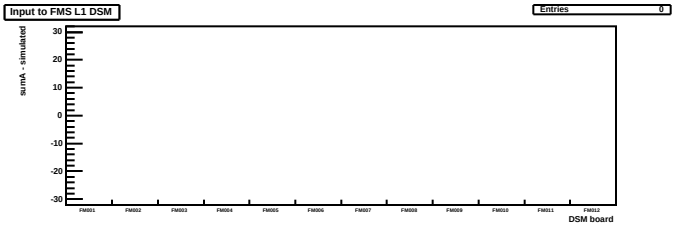

Input to FMS L1 DSM
Entries 1.268652e+07
sumB
DSM board

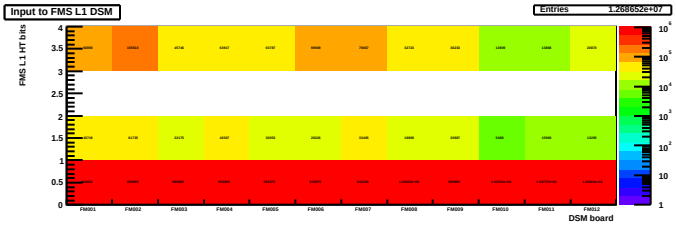

Input to FMS L1 DSM
Entries 9306
sumB - simulated
DSM board

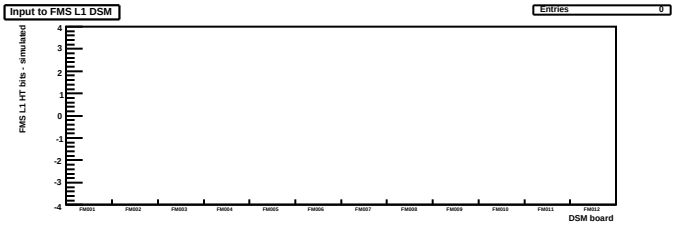

Input to FMS L1 DSM
Entries 1.268652e+07
sumCD
DSM board

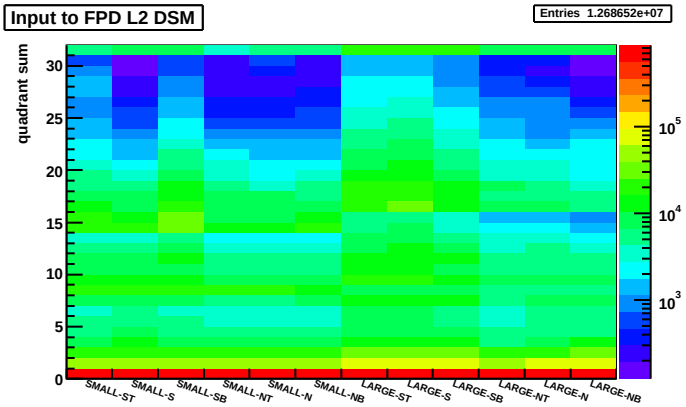

Input to FMS L1 DSM
Entries 60750
sumCD - simulated
DSM board

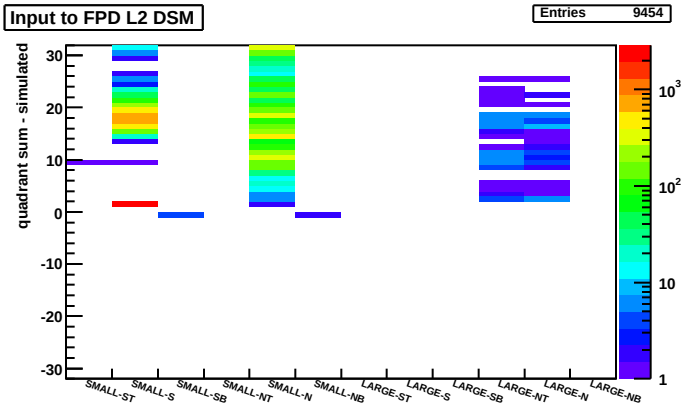

Input to FMS L1 DSM
Entries 1.268652e+07
sumA
DSM board

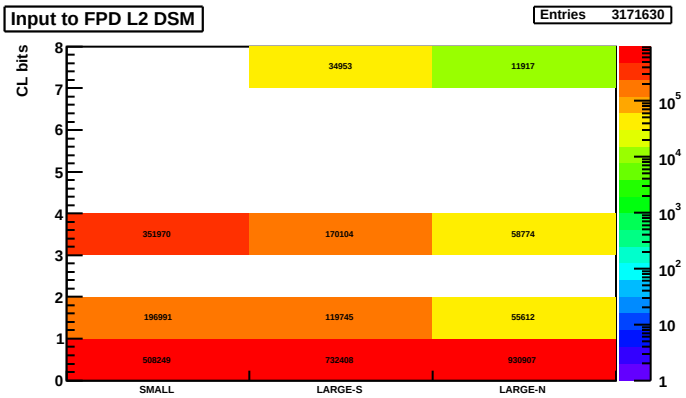

Input to FMS L1 DSM
Entries 0
sumA - simulated
DSM board

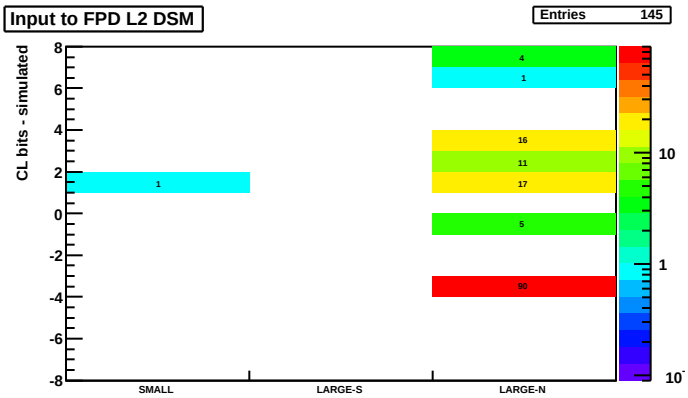

Input to FMS L1 DSM
Entries 1.268652e+07
FMS L1 HT bits
DSM board

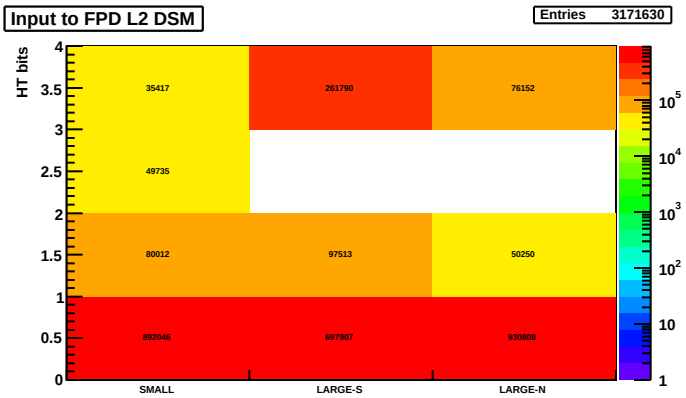

Input to FMS L1 DSM
Entries 0
FMS L1 HT bits - simulated
DSM board

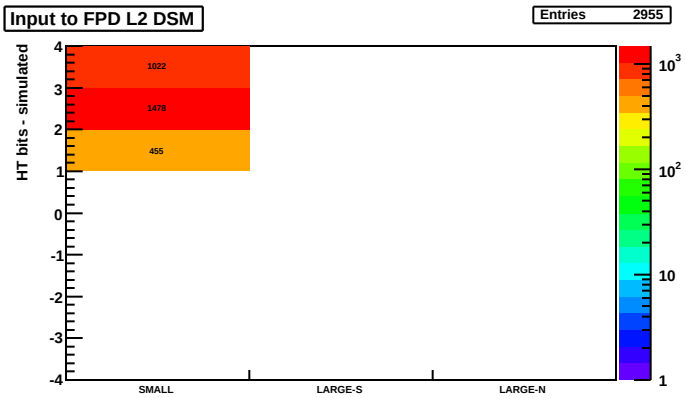

Input to FPD L2 DSM
Entries 1.268652e+07
quadrant sum
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

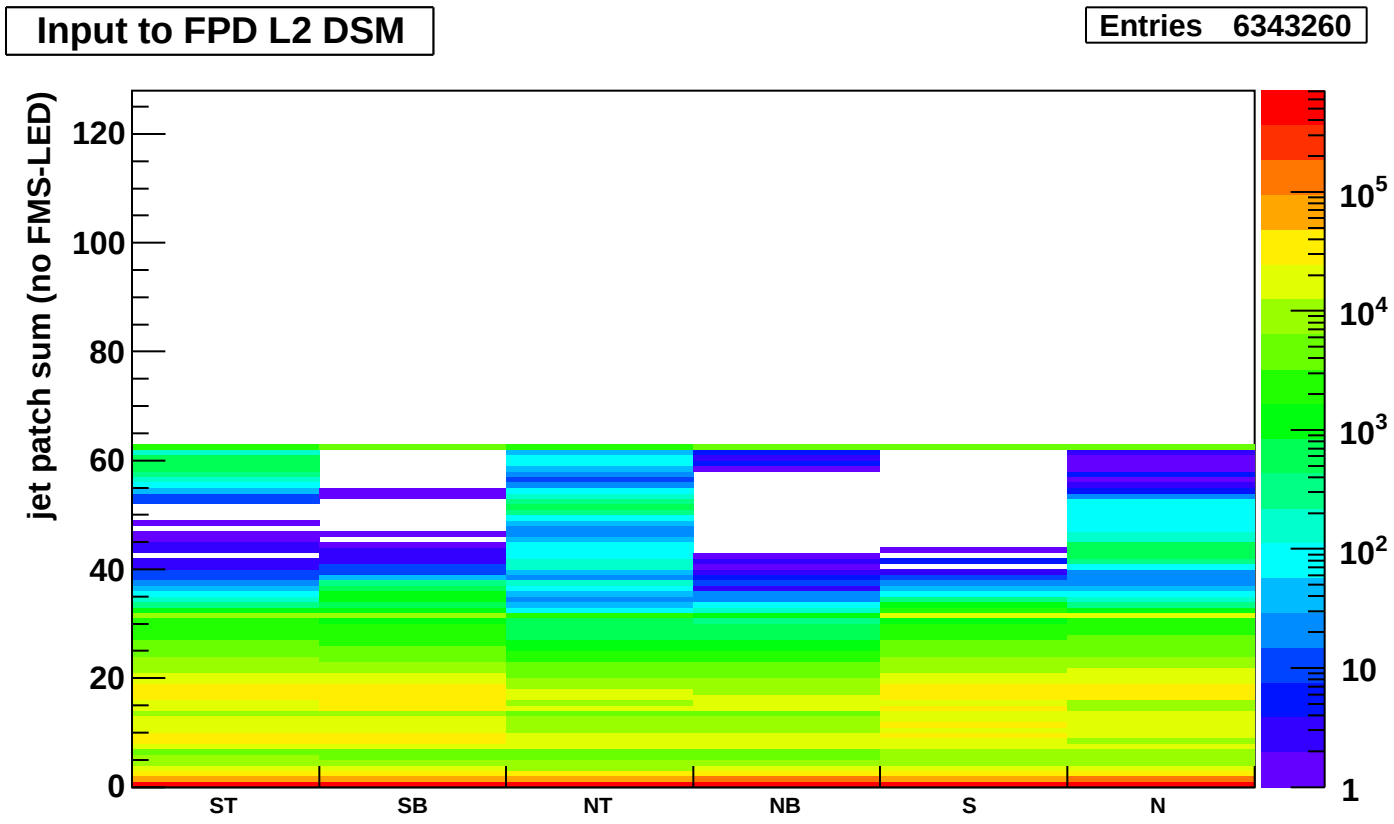

Input to FPD L2 DSM
Entries 9454
quadrant sum - simulated
SMALL-ST
SMALL-S
SMALL-SB
SMALL-NT
SMALL-N
SMALL-NB
LARGE-ST
LARGE-S
LARGE-SB
LARGE-NT
LARGE-N
LARGE-NB

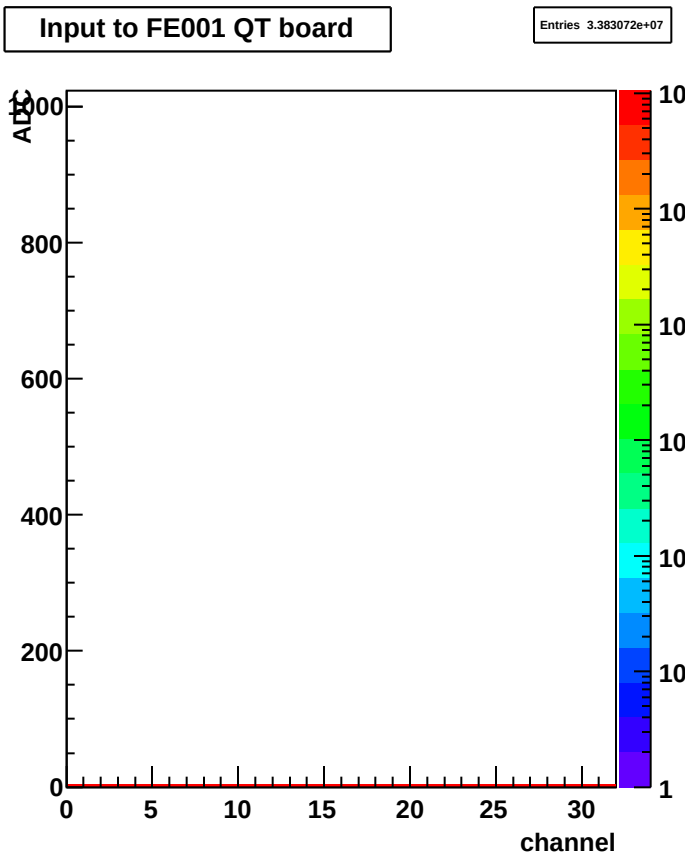

Input to FPD L2 DSM
Entries 3171630
CL bits
34953
11917
351970
170104
58774
196991
119745
55612
508249
732408
930907
SMALL
LARGE-S
LARGE-N

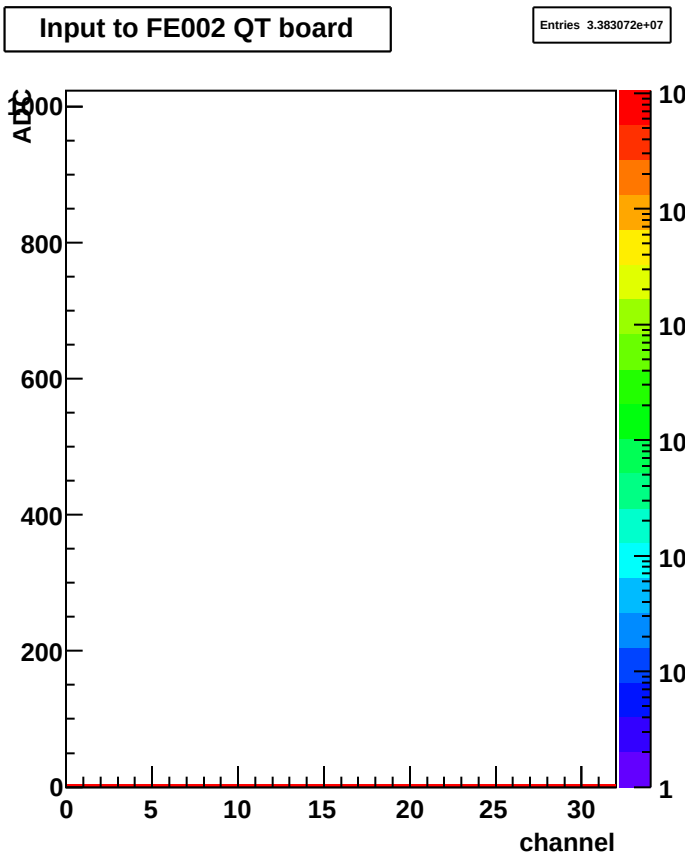

Input to FPD L2 DSM
Entries 145
CL bits - simulated
4
1
16
11
17
1
5
90
SMALL
LARGE-S
LARGE-N

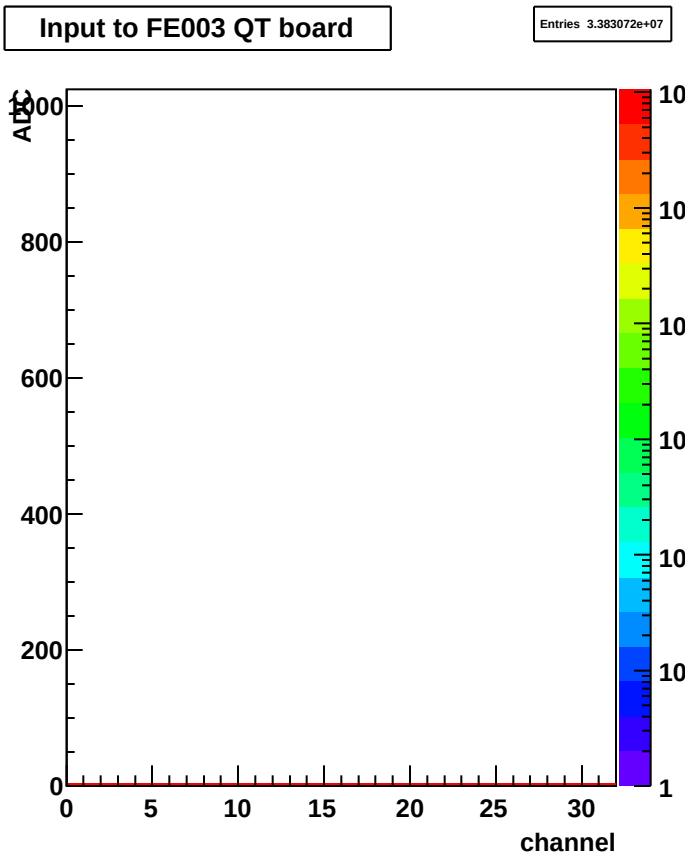

Input to FPD L2 DSM
Entries 3171630
HT bits
35417
261790
76152
49735
80012
97513
50250
892046
697907
930808
SMALL
LARGE-S
LARGE-N

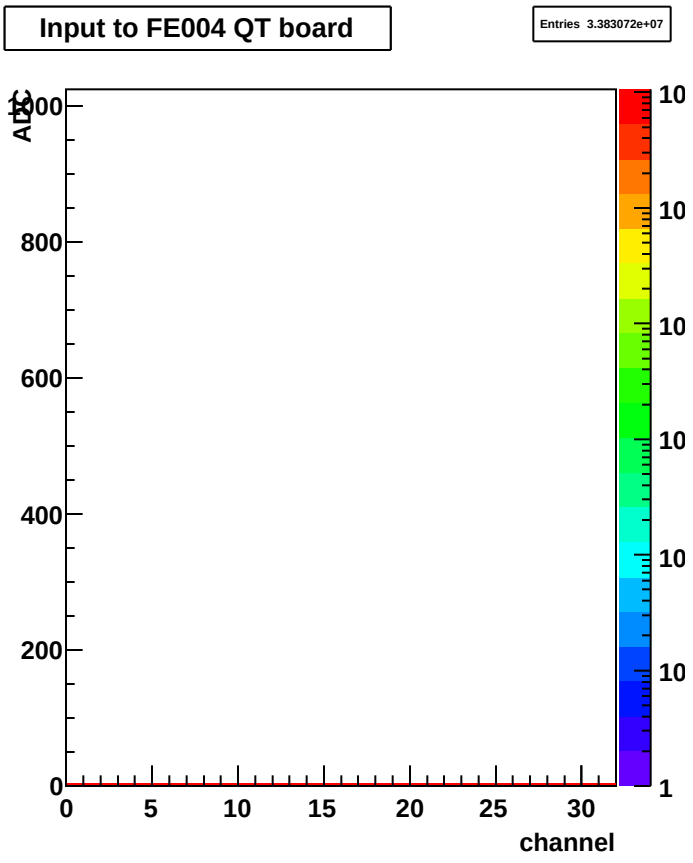

Input to FPD L2 DSM
Entries 2955
HT bits - simulated
1022
1478
455
SMALL
LARGE-S
LARGE-N

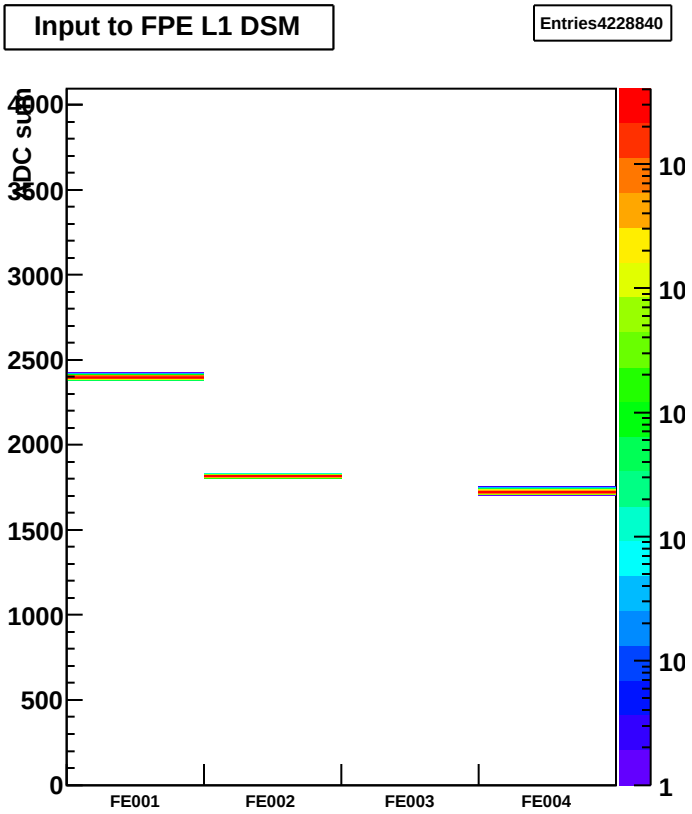

Input to FPD L2 DSM
Entries 6343260
jet patch sum (no FMS-LED)
0
20
40
60
80
100
120
ST
SB
NT
NB
S
N
1
10
10^2
10^3
10^4
10^5

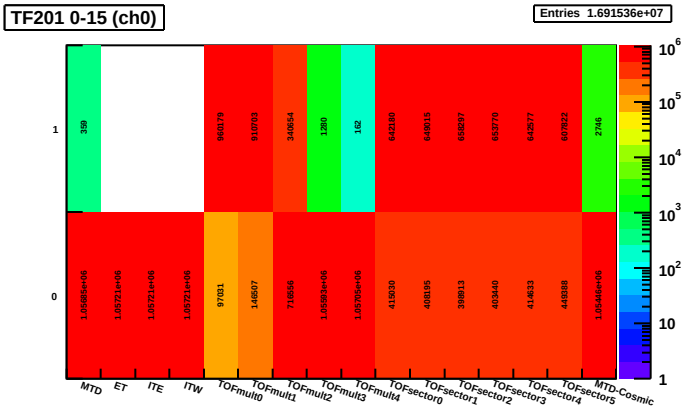

Input to FE001 QT board
Entries 3.383072e+07
ADC
channel

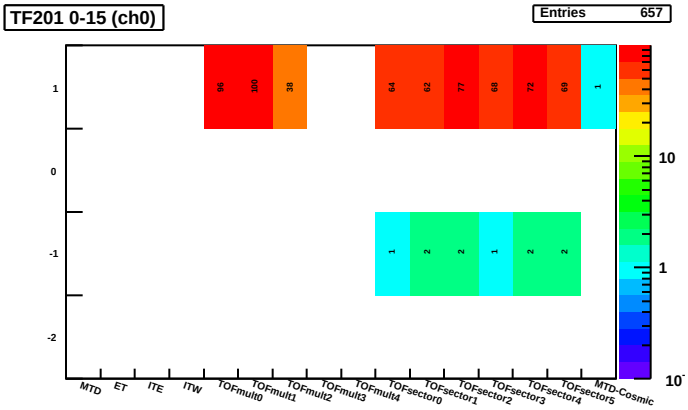

Input to FE002 QT board
Entries 3.383072e+07
ADC
channel

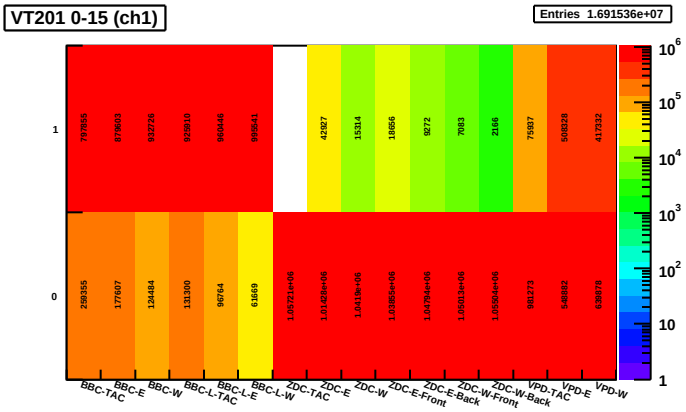

Input to FE003 QT board
Entries 3.383072e+07
ADC
channel

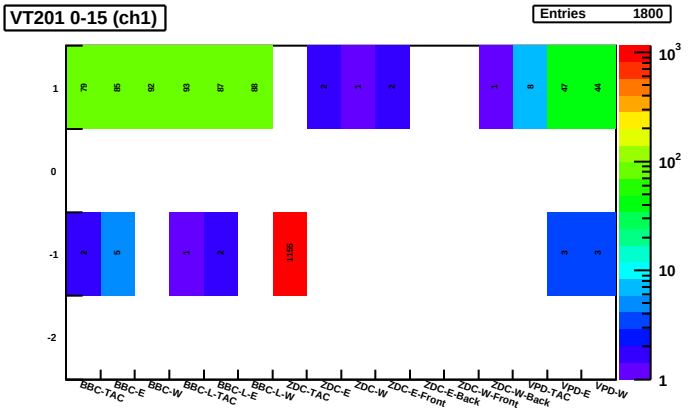

Input to FE004 QT board
Entries 3.383072e+07
ADC
channel

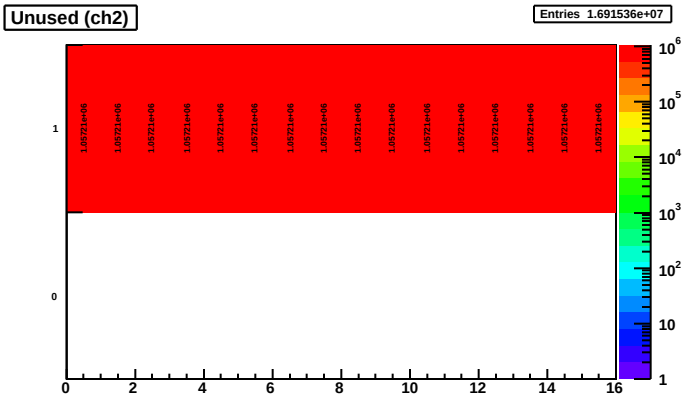

Input to FPE L1 DSM
Entries4228840
ADC sum
4000
3500
3000
2500
2000
1500
1000
500
0
FE001
FE002
FE003
FE004
10
10
10
10
10
1

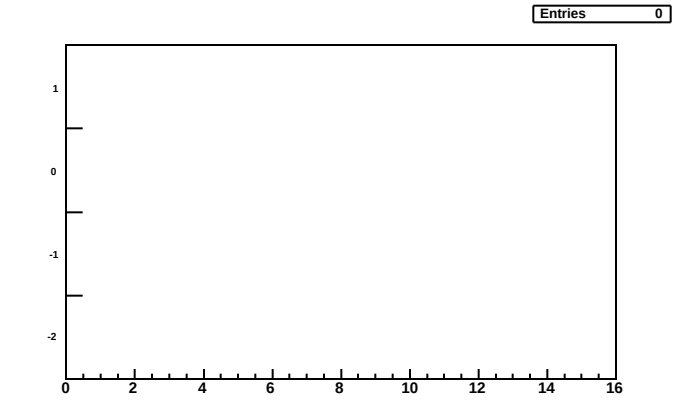

TF201 0-15 (ch0)
Entries 1.691536e+07
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5
MTD-Cosmic

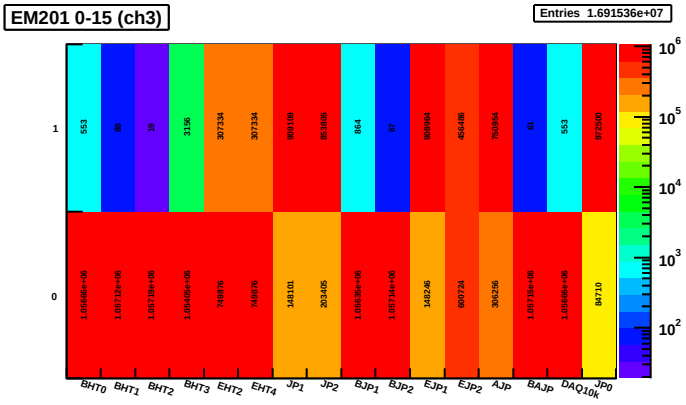

TF201 0-15 (ch0)
Entries 657
MTD
ET
ITE
ITW
TOFmult0
TOFmult1
TOFmult2
TOFmult3
TOFmult4
TOFsector0
TOFsector1
TOFsector2
TOFsector3
TOFsector4
TOFsector5
MTD-Cosmic

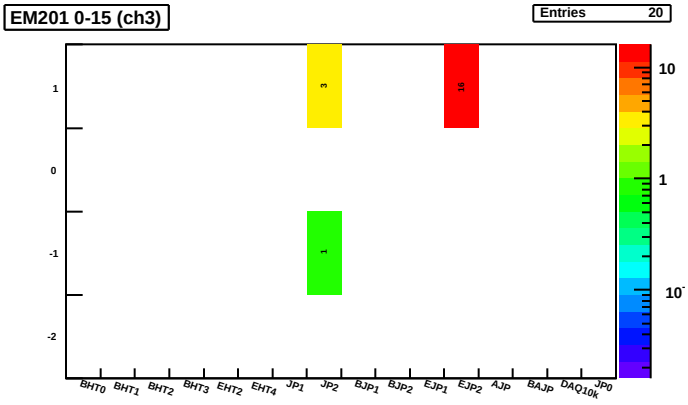

VT201 0-15 (ch1)
Entries 1.691536e+07
BBC-TAC
BBC-E
BBC-W
BBC-L-TAC
BBC-L-E
BBC-L-W
ZDC-TAC
ZDC-E
ZDC-W
ZDC-E-Front
ZDC-E-Back
ZDC-W-Front
ZDC-W-Back
VPD-TAC
VPD-E
VPD-W


VT201 0-15 (ch1)
Entries 1800
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

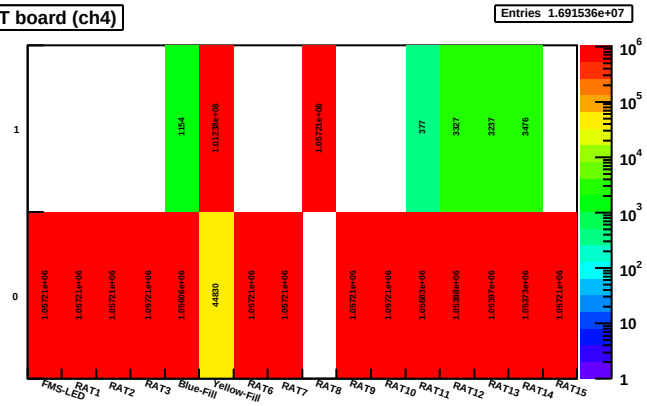

Unused (ch2)
Entries 1.691536e+07

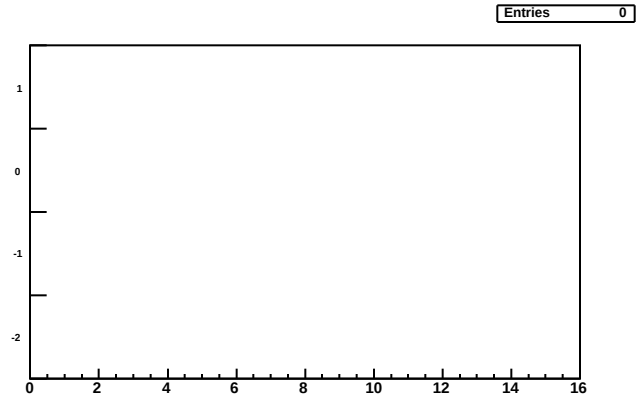

Entries 0


EM201 0-15 (ch3)
Entries 1.691536e+07
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJp
BAJp
DAQ10k
JP0

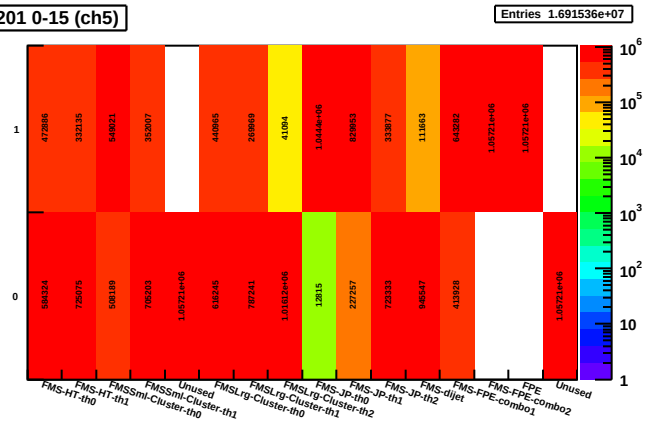

EM201 0-15 (ch3)
Entries 20
BHT0
BHT1
BHT2
BHT3
EHT2
EHT4
JP1
JP2
BJP1
BJP2
EJP1
EJP2
AJp
BAJp
DAQ10k
JP0

RAT board (ch4)

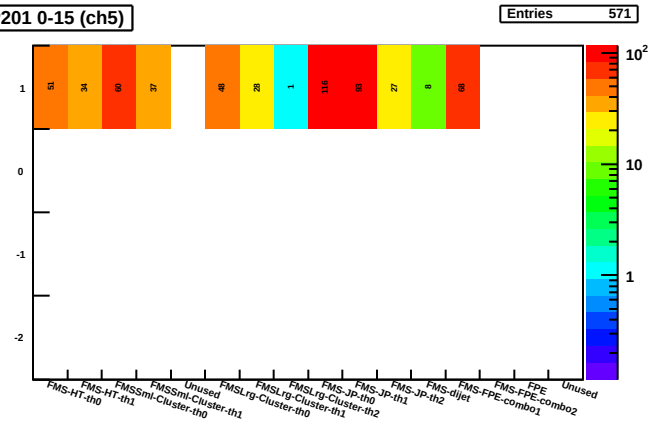




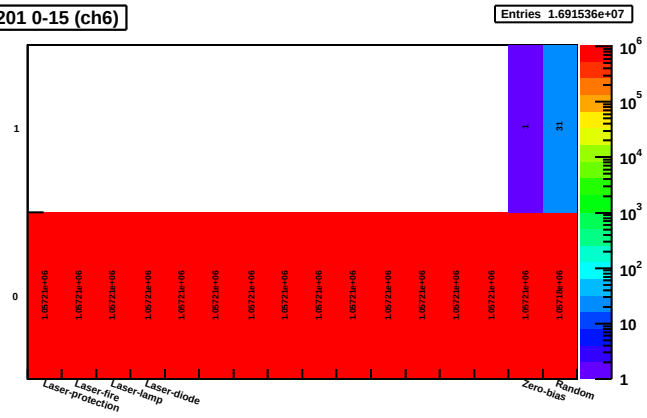
FP201 0-15 (ch5)

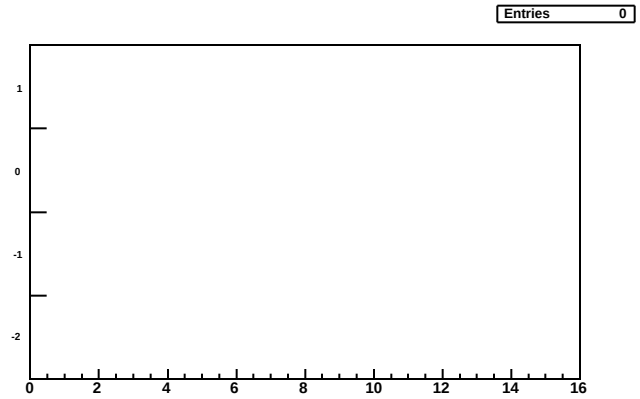
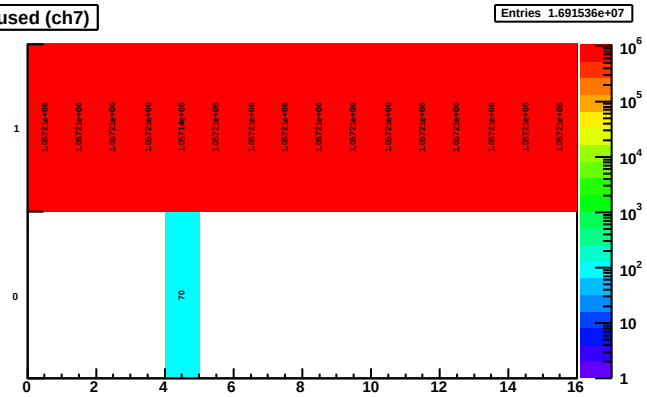
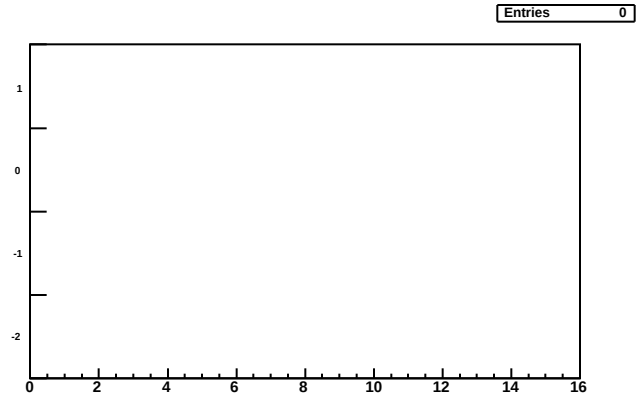


FP201 0-15 (ch5)



ST201 0-15 (ch6)





Unused (ch7)